PUBLISHED EVERY WEEK. \$1.50 PER YEAR.


Vol. XLVIII.
LONDON, ONTARIO, JUNE 19, 1913
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## Install A Modern Fimitiona Brace

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CNSIDERING its extra weight, the
superior quality of the materials, the skill and experience put into it, McClary's Sunshine furnace is the cheapest furnace on
the market. You get more value for every dollar you invest in the Sunshine than you do in any other furnace.
McClary's Sunshine Furnace is the product of the largest stove and furnace makers in the producing and fuel-economizing features-the result of long experience-that no other furnace has.

It has, for instance, the "rocking-down" system which eliminates the old-time backbreaking, dirty shaking. It has a convenienty a sure-acting dun over the fuel doord frost falling ashes getting into the house. It has an almost straight-sided fire-pot to prevent ashes
forming " "pockets" and deadening the fire. forming "pockets" and deadening the fire. And some coal-economizing fe
will be glad to tell you about.
But, too important to overlook, is the fact that the Sunshine furnace is built to last. The materials are the best, and every piece of metal is tested. Every operation in the making is inspected, too. Nothing is left to chance
As an example of the quality of materials used, take the fire-pot. This is of semi-steelnot gray iron as are other fire-pots. Semi-
steel is not affected by sulphur fumes from burning coal In addition, a semi-steel fire-pot burning coal. In addition, a semi-steet fire-pot
weighs twenty per cent. more than the same size and pattern in gray iron.

But that's not all. The fire-pot is in two pieces to prevent it cracking from extreme expansion or contraction. One-piece fire-pots are continually cracking, having to be replaced. Then take the grate bars. Those on the Sunshine are very heavy and have three sidesthe fire every few days, the life of the grates is greatly prolonged.

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Send your name and address to our nearest office, with particulars about the size of your house, and we will tell you about how much it will cost to install a McClary's Sunshine in your home. The latest Sunshine booklet is,
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Vol. XLVIII

## EDITORIAL

The yelping dog lowers the milk pail.
The two-horse corn cultivator is a great labor aver.

Alfalfa, like corn, stands drouth better than excessive wet.

In Western Ontario, and even farther east, corn is about our surest crop. Even though weather conditions prove unfavorable, one can do much by cultivation to promote its growth

For some unknown reason an attractive back yard is very much more attractive than a beauti ful lawn in front of the house, observes an American writer, who pleads for a back porch overlooking the backyard and garden.

If a man is rich and asks a government for millions to assist enterprises designed to make him still richer, he is called a subsidy hunter if he is starving and asks a fellow man for breadmoney he is called a beggar.

The Kansas plague of grasshoppers is being destroyed by a fungus, according to newspape reports. Thus does Nature raise up friends to aght our battles for us. Among our greates sportsmen (?) to shoot -

Reversal of prospects is a common experienc in farming. The crop which looks best in spring may disappolint sadly hefore harvest, while the crop whose early charrces appeared slim may com-
pensate. As a rule, the hushandman who does pensate. As a rule, the husbandman who doe calm faith comes out all right in the end.

If you have held some silage over for summe reeding, take a look into the silo to see whethe rats have found their way into it. They may be burrowing down through the decaying suray will let the air in and greatly increase the amount of spila . If they are working, close the silo of spoilage. If they are working, close the sile doors and set a trap or two inside. We wour of it being carried down and subsequently mixed with sound silage fed to stock. If the rats have not yet galined access, close the doors and keep them out.

In a message vetoing a farcical directprimaries bill passed by the State Assembly at
Albany N w william Sulzer Governor of New York, used this trenchant paragraph
who suby intelligent citizen is aware that those advantage have found their greatest opportunities to do so through the adroit and skilful manlipulation of our system of party caucuses and
political conventions. We have been given leadrrship dishonorable to the various political
parties of the State, and we have been given parties of the State, and we have been given party tickets which reflect this dishonorable lead
ership in disgraceful secret alliances between big $\begin{array}{ll}\text { Dusiness } & \text { interests and crooked and corrunt } \\ \text { politics. } & \text { It must cease. or our free institutions }\end{array}$

LONDON, ONTARIO, JUNE 19, 1913.

## Economy in Fencing

With the progress of invention, capital be comes increasingly necessary on the farm. Each cade the farm is equipped with less of what abor directly achieves, and more of what re quires capital to purchase. .There are not a faw hundred-acre dairy farms in Ontario to-day representing an investment of ten, fifteen or twent thousand dollars in buildings, fencing, tile-drain age, implements, vehicles, tools and live stock, $\sigma^{\text {ver and above the value of the land itself. The }}$ demands for more outlay steadily increase Experience proves that it pays to purchase good tcck, good implements, and good equipment, a well as good land. Poor stuff soon plays out It is usually economy to buy the best, but it certainly does run into a lot of money. And here seem so few chances for economy wher conomy will not prove short-sighted.
It behooves us, therefore, to be on the alert to save where expedient. One of the best opportunities lies in reducing the amount of encing. There is a wise and well marked ten dency to do away with many of the superfluous ross fences which cut properties up into smal fields that are expensive to cultivate, waste lan in fence bottoms, and add not only to the farm er's capital outlay, but correspondingly to his interest and depreciation charges.
Consider the cost of fencing. To erect a good nine-strand woven-wire fence with 20 -cent cedar posts set a rod and a half apart, will cost in the neighborhood of sixty cents a rod. This includes labor of digging the post holes, setting posts (including anchor and brace posts) stretching and stapling the wire.
A typical "inside" hundred-acre farm $200 \times 80$ rods will have 240 rods (a half share) of line ence, 80 rods of front fence, and with a lane through the centre, about 400 rods of lane fences. This, if all erected new, well built, would cost about $\$ 430$. To cut this up into tenacre fields would require another 320 rods of somewhat cheaper fence, costin?, perhaps, $\$ 150.00$, maybe somewhat less if old posts could be utilized. On this 320 rods of cross fencing there will be annual depreciation to the extent of eight or ten dollars and interest eight dollars more or say fifteen dollars, besides the obstruction to cultivation, the waste of land and the harboring of weeds.
Part of the outlay and expense of cross fencing might be dispensed with by having a couple forty-rod stretches of woven wire to be ditcheir act to pasture stock a couple e desirb a couple brace odd line post or so planted for stiffening are all that is needed to put up such a fence. Two or three men can drive the stakes, plant the brace posts and stretch and staple the wire for a fortythrea span in half a day at a cost of two or and shifted when can be placed where needed, the line. It saves capital and reduces expense. What fence you buy, buy the best, but do not purchase more than you need.

## In Business for Oneself

experience shows that the man who worke wways for salary, even though it be a good one, has a poor chance of becoming well oft. It is astonishing how hard it is to save much out of a fixed weukly or monthly wage. Easy come easy go. The tendency is to live up to one's income, somet arpensive habits of leavee a very small margin to pass, family increases, the save out of. Yeara penditure advances, but the scale of woekiy ox mains pitifully small, quite inadequate it seeme to furnish capital for a business that would maintain the famity on anything like the standard of living to which they have become accustomed, and from which it would be a severe wrench to break away. By and by the hope of branching out for oneself is relinquished to the distant or improbable future, and one finds himself permanently bound to the wage or salary class. The effeot on character is subtle. Bit by bit the wage earner loses that masterful self reliance developed in the man who is carving out a future for him self, and in its stead comes a pliant dependence upon the employer who issues the pay cheok. o decribe too wovere a torn hersibe the pschycological condition of such thrown upon his own him with the man who with life, struggling for a means of teoping hie head above water, finds some niche into which he can fit and cets into a busineme of his own. Humble though it may be, it has in it the eeed of a future. It will become what he malces it and what he makes it will depend upon his own capacity and character. It becomes a child of his ambition, an urgent repository for thrifty savings, and a field for self-expressive elfort. . It is a great thing to be working up a business of one's own. It is at once the surent way of getting ahead financially, and a first-class meams of strengthening character and developing mental capacity. Every farmer has just such a chance. As compared with the city wage earner 'or Farming is a good business a cloan, salgh wholesome, self-reliant, self-developing busine such as any king might anvy $\mathrm{D}_{0}$ we ' realt when we are well off?

## A New Brunswicker for Truro.

Prof. J. M. Trueman, head of the Dairy Division at Storrs Agricultural College, Connecticut, U. S. A., has accepted the position of Professor of Agriculture and Farm Superintenis one of the strotia Agricultural College. 'This at one of the strongest appointments yet made born in New Brunswick and some twenty years ago graduated from the and some twenty years Truro N S B. S. A. from the Cornell recived his degree of Since that time cornego. experience in hricultural colar two years the mana abo work, and in States. $\mathrm{H}_{e}$ is regarded as one the Ualbed men in his subject in America, and the sora Scotia Agricultural College is to be congratulated on having added to its ataff a man familiar from birth with Maritime Province conditions who has had such an extended experience in the leading institutions of the United States and who stands so high, especially in dairy husbandry in

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Rules of the Road. eat deal of confusion exists as to the rules of the road, particularly those applying when
one vehicle overtakes another. Many drivers o horses, for instance, when overtaken by an auto-
mobile, will turn to the left, expecting the automobile, will turn to the left, expecting the auto
mobile to nass on the right. This is wrong The person ahead should keep to the right; allowing the overtaking vehicle to pass on the left. This applies, at least, in the province of Ontario.
In the case of two vehicles meeting it is well enough known that they both turn to the right. The converse of this rule applies in England, in the Maritime Provinces, and on Vancouver Island,
unless recently altered. Elsewhere in Canada unless recently altered. Elsewhere in Canad
the rule is to keep to the right. The Ontari the one is to keep to the right. The Ontario
law on this is very well explained in the
1912 annual report of W. W. Mclean. Provincial 1912 annual report of W. A. Mchean, Provincial covered by thc Highway Act, 2 George V.c. 47,
and the Motor Vehicles Act, 2 George V.c. 48 . 1. When two vehicles meet on the highway each driver shall turn to his right-hand side 2. A vehicle, or horseman, overtaken on the
highway shall turn cut to the right and allow the overtaking vehicle or horseman to pass on his
left-hand side. 3. A person in passing shall turn to the left-hand side suffic iently far to avoid collision; the person over 4. In the case $o^{c}$ a bicycle, or tricycle, the
foregoinng rules apply, except that the bicycle or tricyole can require only sufficient room on the travelled portion of the highway to pass; also
when overtahing another vehicle, the person on the bicycle or tricycle is to give audible warning of his approach before attempting to pass.
5 . When a vehicle is so heavily loaded that, when meeting or being overtaken, the driver find it impracticalle to turn out, he shall immed-
iately stop, and, if necessary for the safety of the
other vehicle or if so person in charge to pass without damage. if ${ }^{6}$. A porticablable to give half of the road, and to drawn vecticle has passed, The engine is to stop
at a diance of not lace
rehicle, and assistance is to be given to the Between sunset a requested
engine on the highways is to be preceded by a peron carrying a light. 8. Between sunset and sunrise, a red light is
to be carried on the front oí an engine, and a reen light on the rear
9. The speed of motor vehicles is restricted to 15 miles an hour, within a city, town, or village
and to 20 miles an hour on country roads. 10. Motor vehicles are not to be driven rec lessly at any speed or in any manner dangerous o the public, having regard to all circumstances and the amount of tralfic on the highway at the
time. ise every reasonable motor vehicle is to exerfrightening horses driven on the highway. 12. A motor is not to pass a horse-drawn
vehicle outside of the limits of a city or town, at greater speed then 7 miles an hour.
13. Should a horse appear to be frightened, vehicle is a signal to do so, the driver of a motor
stop and take such steps as will enahle the horsedrawn vehicle to pass in as wafety. 14. The rights of a pedestrian on the
travelled highway ave co-equal with those of vehicle, and the driver of a vehicle is therefore required to exercise every effort to prevent injury or inconveuience to pedestrians when approaching
or passing them. Irrespective of statutory provir passing them. Irrespective of statutory provivent aceident to either pedestrians or vehicles. While the foregoing represents the principal features of the Statute respecting travel, yet no
rules or regulation can possibly take care of the many or regulation can possibly take care of the
instances in which courtesy only can facilitate the free and convenient use of the high-


Bridging the Chasm.
Producer to Consumer-"Meet me half way on this
plank, and we'll be independent of these dealers."
Misunderstandings are sometimes due to the ar sets into a deep rut, it is almost impossible or the driver to turn nut promptly to allow
others to pase; also in wet weather it dangerons for an automotile to turn out on a steep or sliphery side slope, as the car is very ap
to sley and be struck in the ditch. the iact ther cause of misunderstanding is due to be turred out in a very short distance. When " motor car approaches a horse-drawn vehicle, smooth centre of the road as long as possible. The diviver oi the horsedrawn vehicle, seeing no would expect it to do so, goes farther he farther from the centre of the road to avcid colliWhen the chautieur has reached the point af which he would expect to turn out, the horse mossits in the diteh, that there seems no an ionat on the fory that this is inten Whoreas in inore thomentrossness than other-


## Nature's Diary.

Birds which are more often heard than suen are the cuckoos, of which we have two species in Canada-the black-billed cuckoo and the yellowvery similar. The notes of the two species ar sets of notes, one "kow have two kow-kow-kow bow ," berining puickly cuming very slow towards the end the ther softer "cuk-cuk-cow-cuk-cuk-cow "
The cuckoos are long, slende
colured birds, the main distinctions beeful, fawn two species being the color of their bills and the whte tips on the tail-feathers of the yellow billed cuckoo when seen from veneath
The yellow-billed cuckoo is not as common a the black-billed, and is restricted in its range i anada to Southern and South-central Ontario. food habits-they are very partial to hairy cater pillars, which are avoided by most lirds. Thus they are decidedly valuable friends of the farmer Our cuckoos, unlike the cuckoo of the Old
World, make nests of their own, though the nests are mere platforms of twigs. -vice is the mourning dove. This penetrating little smaller than a domestic pigeon, and has a much longer tail. It is a somewhat pinkish The mourning dove is the bird which is often mistaken for the now extinct passenger pigeon
It derives its name from the rather sad cadence of its notes, which sound like froo-ah-oo-oo-oo OO-OO-00-00-oo.
In some pla
In some places the mourning dove is on the
list of game lirds list of game lirds, which it should not be, as its eater of weed-seed. There is a plant which is common along the
borders of woods and thickets which it is well to know ; this is the poison fvy. It is usually a shrubby plant growing about six to twelve inches in height, and the leaf-stalks bear thre white fruits. The effect of the poison of this plant upo different people is very different. Some are very
susceptible to it susceptible to at, and the skin and the causes in of blisters. Others are entirely immune. There is a current idea to the effect that the poison is given off into the air, and that if persons sus it, they will be poisoned. This is not and in many cases where people have been poisoned without touching it with their hand. they forget that they have walked through it and
that they usually take off their boots before ing to bed, thus getting the poisonous oil on their hands, and often from their hands to their
faces. The best remedy for the effect of poison ivy acetate of lead in fifty per cent alcohol.
While poison ivy usually grows low, it some While poison ivy usually grows low, it some-
times is a climber, running up trees to a considA plant often mistaken for poison ivy is th Virginia Creeper, but the latter has five leaflets There are a large number of warblers which hreed in the settled portions of Canada, many of them being hard to identify; but one which is commniz in Eastern Canada and is easy to
recognize is the black and white warbler about five inches in length, and it is streaked black and white nearly all over. The female has mat whe in The song of this species is a very high-pitched like that made by the sharpening of a fine saw. creeping about the trunks and branches of trees while most of the other warblers fit about among This species, as a rale, conceals its nest pretty well. A nest which I found near Guelph was Dlaced between three hasswoods which grew to-
gether at the base. It was composed of strips contained four sounc black and white warbler and a young cowliird, which latter I promptly The parents were feeding the young on smal descending one basswood trunk and ascending an other when leaving. It is interesting to watch the "lone fisher man," the great blue heron, fishing. It wades clined forward and with its head drawn in. When it sees a fish its head shoots out with open bill.
the fish seized, held in the tip of the bill and
chas for
thrown back, and the fish swallowed with a suc It is a pity that this bird is so frequently the target of a thoughtless gunner, as while it is of no economic value, it certainly adds a graceful

## HORSES.

## Did any immediate good ever come from a row with the judges over a decision

It has been said that a good horse is never a and color, but very often the color of

The draft-horse judge usually looks for plenty pense of quality.

The mare owner may well bear in mind that he fall colt is better than no colt, and is pre erred by some successful horse breeders to the onceived. there is still time. Give her ever opportunity to become a producer

White Knight, a Thoroughbred stallion, has recently changed hands at what is said to be a ecord price for a horse, viz., \$200,000. Hi
owner I was $\mathrm{W} . \mathrm{R}$. Wynham, and former owner Iwas purchaser. a. French race-horse man, Edmund Blanc, the same man who paid over $\$ 196,000$ for Flying Fox. White Knight was sired by Desmond

If there is any one place where horse manner count more than another, it is in the show ring or a harness horse that does not drive right up o the bit, a saddler that does not walk, tro and canter readily or a hunter that bolts at the
fence. has little chance of winning the coveted ence. has little chance of winning the coveted
onettes. silverware and accompanying mone
orizes. Get ready for the fall exhibitions.

How Many Horses for the Farm expense ; umber acreage, depends wholly upon the class of farming carried on A rough, hilly farm, largely used for grazing purposes. does not require so many work horses as does the same-sized farm ares all under cultivation. haso the number of horses kept upon the number of acre in the farm,
Farmers are sometimes horse-poor in the same Farmers are sometimes horse-poor in the same
sense that a man who owns several thousands sense that a man whow-sand land, is considered to be land-poor. The writer remeralers a man who considered himser and who kept around him, on a farm of less than one hundred acres and operated as a
mixed farm, from ten to twelve horses of all ages, most of which were the best prices, nor were they very efficient as farm work horses. This man was always horse-poor. He seemed to imagine that it required nearly all these horse to do his farm work, and he usually purchased, hecause it sold at a low price which he called cheap, but which in the end proved to be very dear, for once in his stable the animat it was disposed of at a loss. These horses ate up practically all the feed the farm produced, which might have been used to good purpose in feedig a few real good breeding farm work horses. If a man is in the horse-breeding business and is producing the good things, which are in most demand, he may profitably kerp a larger nu, of hoises than the average farmer can,
this article refers to the average farmer wor plans to keep just enough horses to work hares. oi course, where three or four good brood mares are kept, and ther breed fairly regularly, there may seem to be a rather Farge stock there may
on the farm sometimes. For instance, the
he the four mares and the four foals, and it is be the four mares and the four dours yearlings and
possible that there maty be for possible that there maty he tour later is not
four two-vear-olds althourh the mrohable, for it is seldom indeed that four are so
are found in one stable and all foul each in regular breeders as to produce a The point is this, the owner of these mares (goud not be considered horse-
simply keeps their progeny to tee sold at three o The good colts grow in it palus him to do so year to such an extent as to far more than pay tion. But with the four mares one can scarcely ear with another than fifty per cent increase one large as reckoner, so the stock would not be so
lappose these mares raised two colts each year, and the colts were kept un-
til rising three years of age, the farm would be tocked with four mares, age, would be lings, and two two-year-olds, or ten all told. Each and everyone is a good lindividual, market able at a good price any time, but the colts are
held until ready to go to work, on account of their increased value then. Work, on account of ditions with those of the first man alluded to who kept from ten to twelve scrubby individuals,
mostly mature or nearly so, and the greater part of them geldings, useful only as serviceable workers and scarcely 'serviceable," and never
marketable at a profit. One has too tmany marketable at a profit. One has too many
horses, the other, because his horses are the horses, the other, because his horses are the /s not overstocked.
There is something in the kind of horse kep as a factor in determining the number which th iarm can profitably support. We gather fro
the operations of the horse-poor farmer that poor horse is a money loser, and the more o them a person has the greater his losses pep
head. On the other hand the man who keep good, sound, useful brood mares to do his worl gets his farm work done in good time, has a
few colts which may be used to help out durin the rush seasons, has a product in his colts which is readily marketable at a profit, and his


Phyllis.

## frree-year-old Clydesdale fily, Rale champion ane the show

How many work horses should the man on no he; of the good kind, what his line of work demands together with the progeny from them to be sold onf when most prificient for most farms of 100 acres where mixed farming is carried on. Speciatized conditions may require more or less than this number. This makes it possible to each of which may, at times, be found advantareous. Some get along with three good horses on this size of farm, and others keep five. It extent that seeding and like work, which must he done in the shortest possible time, is too long drawn out. Every day's delay after the land is ready to work means a shorter crop. The
breeding of the mares used to do the farm work hreeding of the mares used a profit on a mare mhere is not needed all the time.. but which can
which lee well utilized during seeding, harvest and fall
work. She is thus given plenty of time with her foal. Besides, where the mares are used to do the worh, a laree enough number shore overwork any hred every year. Those not raising foals show'd mado di the heavy end of the work. The problem of how many horsest to keep on the fartu is one which miust be selted know best whai he. ruuires. Avoid too many work horses,
whel not to kep too few. Never keep in-
and

The Roadster
a The Farmer's Advocate dster" but it is not this that prompts me like the car mentioned to make good time road. It would be folly to say that one breed of horses was worthy of more praise than another, for all our recognized ibreeds in this horse is one of the best light horses for drivin purposes. One cannot but admire a nicely-turned rim. clean-limbed trotter with his free, easy gail which the best individuals show bursts of speen s marvellous. As a good light horse 'for all kinds of road purposes, it would be difficult to ind a better horse than the Standard-bred. He makes good time, does it easily, and possesse
sufficient stamina to be a first-class all-day horse. As a general thing his manners are good nd, properly trained, he is quiet and safe red horse is one of the most useful of our ighter breeds of horses. His bulwark is his utility, and his glory is sure to endure HORSY.

## The Horse - Market Outlook.

 versation on Agricultural topics recently, re t present. and he didn't think sales were being made quite as readily as they were a year or so ago. Perhaps not. There may be a tendency to- act remains that if agood hotse is required, good horse is required,
considerable searching is necessary before one for sale is found, and when is located the price
asked does not show uch docline fromit thoEge sked for such animals ne or two years ago. hade the remark, and ho is a very successful
er $t h$ county farmer, and a graduate of the ollege, shortly a f terwards asked "Do you u real good, young drived all over our section fud one which would suit ${ }^{\text {prit a reasonable }}$
price." This just about fits the sit it a tio,
People generally belfeve People generally believe price and yet they are scarce, and prices äsked
are high, and owners re fuse to sell unlzesz a good This sam me gentloman geldings, three years of age, can now be purchased to small to man for producin is not
too provided the mare is kept as a farm-work horse as well as a brood mare A farm requires a cerain number of work horses, and why not, have the go to the city brood mares? Let the geavy dray woldings retain the mares on the farm. A good deal of the difficulty experienced in raising colts is caused by the mare not receiving a necessary amount her do the work on the farm, and keen her at it regulariy. If she does this and raises a colt each year, which at three years of age is worth $\$ 200$, say that horses would or would not be cheaper in the near future. The horse market, like all other markets, has its ups and downs and forealmost as dificult as weather prognosticating is far into the future. But whether prices fall or years to do believe that they will not, in several farmer with a lew good heavy draft brood pay the and who uses them to do his work as well mares raise colts, to breed his mares regularly year after Special mention is made of the heavy draft horsh, luat there is right now a scarcity of the sound roadsters, with size and substance and a reasonable amount of speed, are scarce, as shown by the remark of our friend previcusly quoted,
This, from olsservations, seems to be the case
throughout the country. There is no room for realizing in all $\$ 168$. 103 pounds of wool
mome good horses of this kind at a fair to high mome good horses of this kind at a fair to high
figure, but the breeding of such should not be rushed into pell-mell. That is, no heavy mares should be bred to light horses in the hope of getting the desirable class, nor should any
"scrub" roadster stallions be used. It is the "scrub" roadster stallions be used. It is the
topper in all classes which is making the most topper in all classes which is making the most
money for his breeder. Nothing but the best type of stallion should be recognized in any of the breeds. If the mare is a drafter, a foal from a first-class draft stallion is invariably worth more
than one from a trotter would be, but many of than one from a trotter would be, but many of to produce a few good driving horses for the triage would like to get them. The horseless carriage and motor truck seem to be shaking the
faith of some in the old reliable horse, but the auto, the engine-driven truck, and the tractor are the power of the few; the horse is the people' means of transit, the people's power, the people's slave, and the people's pleasure. As long as this
condition remains, the horse market is safe, and ll good brood mares should be bred

## LIVE STOCK.

## On May 15th prices of meat animals in the United States averaged about 10.7 per cent

 United States averaged about 10.7 per centhigher than on a like date a year ago, and 27.7 per cent higher than two years ago, and 27.7
per cent lower than three years ago. 4

The farmer who goes out of his way a few
fondle his stock, never has steps to 'pet ' or fondle his stock, never has to step out of his way to keep any of them from
striking, kicking or liting him.-Farm and Fire strikik
side.

## Profits from Sheep Raising for <br> Ontario

"Sheep Faising in Ontario" is the ville of a new bulletin just issued ly the Live-Stock Branch
of the Ontario Department of Agriculture, and which shows the actual results obtained from the work as carried on at nine demonstration. sta tions during two years. Dach station was in charge of a good average farmer with experience in in the counties of Brant, Middlesex, York, Huron Simcoe, Muskoka, Victoria, Lanark and Leeds pretty well covering conditions in the province
Each flock' was charged six per cent vestment (as valued by the two inspectors in harge), and where any losses occurred the ful ost was charged against the flock. Space does ot permit of a full report of the results at al s valuable, as it not only shows profits but give he beginner some idea of feeding this class of The
Wm. Little. The flock consisted of 12 ewes, on Wim. Little. The fock consisted of 12 ewes, one Oxford grades, one Lincoln grade, and 4 Dorset considered to be worth $\$ 8.00$ each First Year.-They were fed during the winter 3,100 pounds hay, $\$ 15.50 ; 1,000$ pounds straw, $1.00 ; 90$ bushels turnips, $\$ 5.40 ;{ }^{22}$ ' bushels
oats, $\$ 8.80 ; 700$ pounds bran, $\$ 8.20$; clover chaff and oil cake, 75 cents; total, $\$ 39.65$ average, $\$ 3.05$. The wool weighed 88 pounds,
and sold at 15 cents for $\$ 12$. It was intended and sold at 15 cents for $\$ 12$. It was intended placed on the Easter market. As Easter came unusually early in the spring, and plans had not oen made long enough abead the previous fall, it was found 'impossible to get any of the lambs
ready before Easter. The first lamb was dropped on February 11th. During the spring, 6 lambs were sold for $\$ 46$. Two were taken into the lock for breeding purposes, at that time at an average of $\$ 7.50$ each. The remaining 5 lambs 1911. These were dressed by Mr. Little, and sold for $\$ 48.07$. This makes the total receipts rom the lambs, $\$ 109.07$; average per head,
$\$ 8.39$. The 5 lambs that were kept until 1911 1910 placed on the road during the summer of $3.00 ; 323$ pounds oats, $\$ 3.42 ; 65$ pounds peas verace per he $\$ 4$. average
$\$ 121.07$; expenses, $\$ 59.00$; profit, $\$ 62.07$ rec Second Year. The flock was fed 2,700 pounds hay, $\$ 16.20 ; 2,250$ pounds clover chaff valued at
$\$ 6.75 ; 6,720$ pounds roots worth, $\$ 8.96 ; 2,154$ pounds grain, valued at $\$ 24.26$. They pastured on the road, and were only charged 50 cents for
ummer with 50 cents added for dip. The cost for the year was $\$ 57.17$, an average of $\$ 4.76$
The lambs were sold for the spring trade and re ived no feed, which is not charged in the feed
22 of them were raised, which in dicates that this flock is very prolific. They
xpenses, $\$ 64.43$; profit, $\$ 118.56$. Profit for wo years, $\$ 180.63$; or over $\$ 15$ per ewe for two cent profit yearly
D. C. Ross was in charge of the Victoria Co. Station. He started with 12 grade Leiceste wes, valued at $\$ 8.00$ each, and a Leicester ram.
First Year. The feed for the winter consisted of 3,000 pounds hay, $\$ 15 ; 2,000$ pounds straw, $\$ 5 ; 125$ bushels turnips, $\$ 7.50 ; 420$ pounds oats,
$\$ 4.20$; some unthreshed peas, valued at $\$ 2.00$, $\$ 10$; was charged for the pasture. Total, $\$ 13.70$; average per head, $\$ 3.36$. 130 pounds
of unwashed wool was sold at $18 \frac{1}{2}$ cents per of unwashed wool was sold at $18 \frac{1}{\frac{1}{2}}$ cents per
pound for $\$ 17.55$. The sheep were not dipped. pound for $\$ 17.55$. The sheep were not dipped.
During the year one of the ewes died and was During the
replaced.
Eighteen lambs were dropped. After weaning, their feed cost $\$ 39.11$, or $\$ 2.30$ per head. It consisted of 3,375
bushels turnips $\$ 16.20$ pounds hay, $\$ 11.81$; 270
21 ushels turnips, $\$ 16.20 ; 21$ bushels oats, $\$ 6.30$; lambs was sold in Novemler and 13 on March 27th. Four of the ewe lambs were kept in the lock. These were weighed at the time the
others were sold, and charged for at the same thers were sold, and charged for at the same
price. The selling price was $\$ 6.65$, and the weight 2,339 pounds, making $\$ 156.54$. The November lambs sold for $\$ 6.32$, total, $\$ 162.86$, or $\$ 9.05$ per head. Total receipts, lambs and Second Year. -The feed for 'the winter consisted of 6,370 pounds hay, worth $\$ 22.29$, and \$33.21; an average of $\$ 2.55$ for winter feeding. Fifteen lambs were dropped and 14 lived. On castrated on June 1st. The 13 fleeces weighed 135 pounds and sold for $13 \frac{1}{2}$ cents per pound, bringing \$18.22. Summer pasture for the flock August, and put into winter feeding Noveriber n August, and put into winter feeding November
17 th . During the feeding period they were fed


Exmoor Horn Ram

## rmoor Horn Ram.

urnips charged at 6 cents per bushel, $\$ 13.80$ of quantity of straw, worth $\$ 4.58$; 994 pounds averaging $\$ 2.84$. On March a $17 \mathrm{th}, 12$ of them were sold, and the two which were kept for breeding valued the same as those sold. The weight of the 14 was 1,720 pounds, at $\$ 7$ per and wool, $\$ 138.62$ expenses, includints, lambs interest on investment, $\$ 90.02$. profit $\$ 48.60$ Profit for two years, $\$ 130.94$, or $\$ 10.91$ each for The s, or $\$ 5.45$ from each sheep per year. The Brant Co. Station was in charge of W.
Crichton, who started with 10 grade Shrop hire ewes, worth $\$ 8.00$ each, and a Hampshire Fir
First Year.-The flock was fed during the
winter 5,120 pounds of hay, $\$ 23.04 ; 82$ bushels roots, $\$ 8.20$; 9 bushels oats, $\$ 3.60$. The pasture total cost for the year of $\$ 52.34$, making a otal cost for the year of $\$ 52.34$, or $\$ 1.76$ per
head. The sheep were not dipped. Seventy seven pounds of wool was sold at 14 cents amounting to $\$ 10.78$. The ewes were in par ticularly good health in the spring, and constid-
erable credit for this was thought to te due to rable credit for this was thought to be due to
the exercise they got. This was attained by having a feed rack at each end of the yard, and with feed in both. the sheep were continually The lumbe numbered
The lambs numbered 16 . One was sold in
oovember, and the balance kept until May 1st The winter feeding of the lambs consisted of
2,250 pounds of hay, $\$ 9: 13,500$ pounds root2,250 pounds of hay, $\$ 9: 13,500$ pounds root -,
$\$ 18: 3,000$ pounds oats, $\$ 30$; and 2,250 pounds ensilate, $\$ 3$; total, $\$ 68$, or $\$ 4$ per head. The

15 when sold weighed 2,150 pounds, and sold at receipts for lambs, $\$ 158.50$, an average per heal of $\$ 9.91$. It should be noted that at this Sta tion the charges for pasture and also for some of the feed are high. Total receipts, $\$ 196.28$;
expenses, $\$ 118.64$; profit, $\$ 50.64$ expenses, $\$ 118.64$; profit, $\$ 50.64$ fed 4,915 pounds of hay, valued at $\$ 18.40$ red 4,915 pounds of hay, valued at $\$ 18.40$;
4,680 pounds roots, $\$ 5.46$; and $\$ 3.60$ was allowed for 360 pounds gralin, making a total of $\$ 27.46$, an average of $\$ 2.49$ for winter feeding Ine pasture for the flock was valued at $\$ 15.75$. two pair of twins during the year. In January she dropped a pair, which were sold for Easter, pair, which were sold in February for $\$ 15$. The other lambs were not fed over winter, but sold at various times in the fall, $\$ 97$ being received in all. The flock yielded 73 pounds of wool, Total receipts $\$ 107.95$, total expenses, which include $\$ 8.00$ for a ewe which died, and $\$ 2.08$, which is the difference between the value and insurance received on one killed by lightning, were $\$ 60.11$; profit, $\$ 47.84$. Profits for two years, $\$ 5.53$ per ewe each year. The total profit, from 97 ewes and 9 rams,
composing all the flocks, was $\$ 802.88$ for the composing all the flocks, was $\$ 802.88$ for the two
years or $\$ 7.57$ per head, started with including rancs. It is scarcely fair to charm acluding to so small a flock, as he would do a for a flock of four or five times the size of thess. Reckon-
ing ewes alone, the average profit was ing ewes alone, the average profit was $\$ 8.27$. on the investment, and counting nothing for the manure and the value resulting from weod destruction, and charging losses, which were in ary grade ewes, not pampered or especially cared for, in the hands of ordinary farmers operating mixed farms, covering conditions good and bad each. No wonder the writer of the bulletin, announcing the results, said
"When we consider the results of these experiments, we are bound to agree with the sherep
breeders who claim that sheep raising in breeders who claith in wita ewes and a pure-bred ram, and increase the profits of your farm

## The Horn Fly.

The United States Department of Agriculture year book for 1912, just issued, contains some very useful information. Among others we note a short history of the horn fly, with which most of our readers are famuiliar. Nearly all have seen the myriads of these little pests annoying cattle by perching in a mass near the base of their horns, where they bite and dra
this insect the year book says:
"The horn fly is one of the most widespread and injurious insects in this country. It was introduced into the United States between 1885 and 1887, and its spread has been exceedingly rapid. In 1889 it had invaded most of Now JerMaryland, and Virginia. New York, Ohio, Kentucky, Georgia, and Mississippi became infested about 1891, and in 1892 the insect had spread ward to Michigan, Ohio Cnadia and westLouisiana, and Texas. Apparently it was first. recorded from Colorado in 1894. Prof. W. B. Herms states that as nearly as he can deteryears subsequently stock to Hawaii, where it soon became a serions pest. Its spread northwestward appears to have been slower. Prof. J. M. Aldrich states that it tions in lished within the last two or three years.
"This insect is related to the house fly, but it parts. The ox is its principal lance-like mouth parts. The ox is its principal host, although the losses sustained are entirely due the Thi ment and irritation produced by the bites of the fly and by extraction of blood. This worriment production. Sores are sometimes produced my it which may become infested with screw worms. In the Southwest the flies usually become very abundant in the spring and again in the fall, the springs and falls ther checking breeding. Rainy the insect to appear in greater numbers. The flies spend the greater part of their existence on the animal, leaving only for a few seconds at a time o deposit eggs in freshly-dropped cow manure, in
which the larvae develop rapidly work downward to the surface of the earth, and Work downward to the surface of the earth, and
there transform to reddish brown ..pupae, from

Which the adult files emerge in from 10
days from the date the eggs were deposited days from the date the egrs were deposited. animals are kept on the farm, breeding can be angely prevented by scattering the manure every three or four days. This allows it to dry out,
and thus prevents development of immature
 stages. To the evse on mand fore spee distribution manure from dairies or farms, where a considerabie amount of it is accumulated." Where animals are under control, repellent substances, such as train oil oplaced on the parts
attecked have given fair satisfaction. All such substances have to be applied at frequent inter vals, thus entailing much trouble and expense It has been found that where dipping of cattle is lice, the vats may be provided with splashboards elong the sides so as to turn the spray over the animals as they plunge into the dip, and thus destroy a', łarge percentage of the flies which ar

## Advertising Pure-Bred Cattle

 Failure to properly advertise their operationsnd their herds often causes breeders of pure bred attle to fail of achieving the highest possible condition that might be paturally pernaps since the cattle breeder is generally recruited from the ranks of the farmers and cattle feeders. te has theen engaged in producing, heretofore, one of the world's staples, food. The open mar-
het was always ready with its fixed price for his product. He had neither to solicit buyers, nor to create a demand for his products. As a pro-
ucer of pure-bred breeding cattle, however, the conditions are different. He now must both slicit buyers and convinotable, and are as good or better than those they can buy elsewhere for the same money. In other words, he fixes his ive customer that that price is right. Before could only expect to get the same price beire, heckuld only expect to get the same price for his quality, finish, etc. Now he may be able by pedigree, and nrepotency being taken in stock, ideration, as well as individual merit, to outsell was a common one, to which all had the same access as he. Now it is a limited and special ustomers scattered all over the country . Wence the necessity for publicity for the pure-bred cattle breeder
There are thousands of pure-bred bulls of good
ype and individuality sold to the butcher, which if advertised for breeding purposes, would return wice or three times the anount of money to the surplus breeding bulls. If the breeders of these pure-bred bulls would use the same means to introduce their cattle to the consumer that the proprietors of the various breakfast foods, farm for their wares, beyond doubt the result would be of the merits of pure blood, the peculiar fitness f given breeds for given conditions, the estabgiven breed and the strong points of the given breed and the strong points of the
ndividual breeder's herd are the things that will do most to add to the profits from a pure-bred
Advertising being essential to the greatest methods, and details. The object of advertising is to call the attention of men who will be or should he purchasers of one's particular kind o ability of patronizing him in preference to other breeders. This being the case, the investment in advertising space should be made where the largest number of these prospective customer
will see it. $\Gamma$, that end it is, of course, logical Will see it. To that end it is, of course, logical and live stock papers. Buyers of cattle will be more apt to see the advertisement if it is in a
journal with a lively and up-to-date cattle departjournal with a lively and up-to-date cattle depart,
ment, and new converts to the "pure blood idea" will, search for a buying place in the columns of
the journal. the means of leading them to see the error of using scrubs or grades. Where there are divirangemen, farmers, and breeders, space can often be used to good advantage in various paper circulating more or less exclusively among these various classes. It is a good plan sometimes to
tut out circular advertising if one can get reliable list of the names and addresses of men who are known to be interested in the class of cottle he has for sale, though there is danger o
wasting time and money if the lists are not care
fully selected. If the circular method be used, care should be exercised to have a neat and tasty, job of printing done, and have the circular
pointed and clearly understood. Hayine incelel suror frequently invested in space, which, by the way, to the breeder's interest to make the most effective use possible of his purchase. This means that the wording and illustrations (if the latter has for sale, dwelling especially upon its peculiar points that are lacking in other cattle, and striving to convince prospective purchasers that
the animals will make money in their hands the animals will make money in their hands.
Whether or not to advertise the price is a mooted question. Sometimes it may be justifiable, but often, if not generally, the tone of the letter of inquiry will give a hint about the notions of the
prospective customer regarding price that can be prospective customer regarding price that can be
taken advantage of in closing the deal, resulting in a more remunerative price being received than one would dare ask in an advertisement. Then, too, the quoting of a price in public print puts one at the mercy of his competitors and gives

Profitable advertising results in inquiries for stock, and these should be promptly and fully answered, giving full particulars about the breeding the good points of the animals emphasizwell as of the breed, if a new convert is the enquirer. If good photographs of the cattle can he bad they often help in closing sales. And in

Ermia
usage of business men in other lines may be profitably followed. Good stationery and promptness come in handy here and give the correspondence a more business-lise appearance. If the first lette
does not make a sale, it is well to try following it up with more particulars, or descriptions of other animals, and keep alter the enquirer at the market. Good and well-prepared literatur about the herd, put out in attractive folder o circular form, can often be made to assist in con-
vincing buyers, when judiciously used. Smirchy ill-printed matter, however, is worse than none at all, as a rute. the herd bull, and the merit o his progeny, and of one's experience in the business, prizes the stock have taken, and any other purchasers 'They should stick as close to the truth as does the other advertising matter hich should be "closer than a brother."
If one advertises in a number of papers it is jast as important for hin to take as careful ing him results in inquiries and sales, as it is for his iriend-the advertiser of machinery or other ommodities-who is very particular about hil and methods out of the appropriation, and use nly those that keep the sale expense down to minimum. In advertising, as in every other line husiness, experience is a mighty teacher, and we but know how to profit Tn advertising, one should keep everlastingly
Spasmodic advertising, like possible. Spasmodic advertising, like every other spast has been put into a periodical it should be kept there until one is sure it is no pat an issue missed, for the number of the paper


Johnson Co., III

## 

 summer use
skipped may be the issue the man examines who one's advertiat kind of cattle. Furthermore part of the paper each issue he an integra prestige and an air of permanency associates it self with the announcement, which is an influenc or success. One should not think that ho should never change copy; a frequent change o made according to the conditions and circum stances of everything at the time the advertise ment will appear in the paper. It is well to
have something new to say as often as prac
W. H. UNDERWOOD

## Would Like Auction Marts in

 Canada.Some time ago I saw in your paper a letter made some remarks alout auction marts for the sale of live stock, such as are conducted im Scotland. Many weeks have passed, and I have not seen any further letters on this important majority, but nevertheless by important by the time that a move was made towards establishing markets in certain sections? We cannot 'sleep forever, and allow dealers to get all the profts.
I have driven twenty miles after a I have driven twenty miles after a horse before
which journeys have been saved if there had been a weekly :or
fortnightly auction mart fortnightly auction mart
in the district. Hundreds of people do $t \mathrm{~h}$ sam'e avery year. Auction marts conducted in Scotland pay a dividend, so why should
they not do so in lontario? On the $\mathrm{f}^{\prime} \mathrm{a}^{\prime} \mathrm{mm}$
next to me lives a cattle next to me lives a cattle
dealer, ana I know that people have sold $h$ im
cattle and other 1 i ve
stock, and he has resold cattle and other 1 ive
stock, and he has resold
them again at a viery them again at a viery
large proft. $N$ ow is, thertio had beon an auction mart in the dis-
trict the seller to th dealer would have got a bigger price, and the
buyer from the dealer
would have saved nome of his money ; soved some that instance the dealer was
an unnecesis ary person, and he would have been subetituted by the market, and the market would me business. I think that is a good example.
I would like to thear the opinions of Canadian I would like to hear the opinions of Camadian farmers on this subject. I have been over two
years in Canada, and have a farm.
Elgin Co. Ont.

## THE FARM.

One Large Silo or Two Small Oneś I intend building a conerete silo for about BO to 60 cows. Will you kindily lot me know whether thould build one large one or tivo would te the proper size for two smali ones. 12 by 25 or 14 by 80 or smaller. Was thinking of making them close together and using one wall in centre, Any information will be greatly app
preciated, as I am an old subseriber.
J. F .
O. Nearly a year ago we visited a prominent ow-
tario dalryman who was milking seventy cowit tario dalryyan who we mis milking apeventy cows and had four silos. "Look here," he salid short
 silos for summer use. Look at that," pointing
too big pile o o brown stuf that had jus bioen
thrown ofla a silo recently opened for July "teod ing. "And look what stuff we're still joto," pointing to some very brownish silage in the mangers. It isn't really fit to feed but they em
it, and we thourht we had wasted enough. On big deep silo, is bytter than an extra one for
We are inclined to think he is right, Our silo at Weldwood is forty foet high by
fourteen feet in diameter, and if building another we would make it more rather than less. A silo
of requisite diameter and forty feet, depth. of requisite diameter, and forty feet, depth,
solidly flled, will enable one to feed from fill

and still have three or four feet in the bottom (partly underground) for use during July and
August. The compact silage ieft over in the bottom of a deep silo will not spoil, to a depth May and July, and when this is thrown earl will be less deterioration from day to day than there would be near the top of an extra silo of smaller diameter. In economy of construction tage in one large silo over two smaller ones The only disadvantages are a slightly greater maximum of power at filling, and the possibilitity of the proprietor subsequently wishing to reduc small silo. In that case a large one half filled might present too large a feeding surface to be lowered at a satisfactory rate from day to day. and the first may be largelv obviated by 'an extra filling window part way down from the top. All things considered, our preference is very silo. In anyt case make it round. One 10 by dee 16 by 45 should meet your needs. If, however, you should decide to t, yild two smaller ones, do not on any account make them less than 30 feat
deep. more rather than less. Two silos 12 by 30 would not hold nearly as much corn as ons 16 wy 40. Their relative capacity would be about 70 tons apiece for the smaller ones to 180
or 200 tons for the large one. The 'extra or 200 tons for the large one. The extra credible to those

## Big vs. Small Farms

. Sreat deal of difference of opinion exists re garding small farms and large farms. One man, its problems in the twentieth century, will in all earnestness state, fully believing that he is right that the small farm worked on an intensive plan possessing au equally well-trained agricultural mind, and understanding present-day conditions just as well will just as earnestly plead the cause of the large farm and its possibilities for yielding profits. In conversation not long ago with a young farmer who had studied the question with regard to his own district, an inland county in Western the farm it was necessary to make money on and perating in the city mall and the large) offers an oportuity (the his. And he also pointed out that the class of arm which can be properly operated depends to a arge extent upon the location of the farm and its soil conditions. The man. situated where fruit growing is a success, can very profitably devote
his time to intensive fruit growing, and a comparatively small acreage may be used to employ a arge number of men. likewise, land suited for getable growing, and situated close to a large ity, may be intensively farmed. Poultry keeping, hee-keeping, and such sidelines may be But land not close to any city and not farms to iruit culture either sinall or large add vegetable land, must be operated con a different basis. Live stock of operated an a dinferent Dairying, leef cattle, pigs, sheep, or horses must
be kept to keep up soil fertility, and must form a large part of the income of the farm. In short the farm must be a mixed farm, with perhaps some Tine of stock as a specialty, or it may he that
pure seed of some kind is nade a leading feature. In any case stock is kept to maintain fertility Under such conditions as these the man with
whom we were talking believes that the beth whom we were talking helieves that the best
chance comes with the large farm, or, as he put it "intensive farming extensively,.", ${ }^{\text {as }}$ The ques-
tion is-Where will the tion is- Where will the lator come from? A large
farm, well managed, is in reality farmed intensively. All the by-products are utilized, and all
the side-lines operated to thest advantare the side-lines operated to test advantage. The
varying conditions in different. sections serying to domditions in different sections almost serill to demand each class of farm, and in some
places one will powe the better, while in other
places the other will hee pore profitable. If
some one woull iust when
nans of those people now in the cities, and who
are tain to he hankerine aiter farm life, could the
successfully transplanmon on the intensive farme
sucecssfully transplanmen on the intensive farms
of the conntis, and inchitle in the same system
sommenthine to
sometime a gasoline engine Day?" is a question,
"yes" or "rno"" To answer this question,
upon the conditions. The average dairy farmer
who has much work for his engine as fumping
water, grinding grain, cutting roots, and ensil-
age, separating ents and ensil-
to be without one. But if a man simply re
illires an engineto pump water he would do better
in many respects to erect a windmill. There are
very few days without sufficient wind, and, if a
raan keeping from fifteen to forty head of live
lock, has a tank holding about six hundred gal-
to pump water by hand, provided, however, the
proper care is given, that is, letting mill run to
keep the tanks full all the time so that he is pre-
parer for calm days and oiling it at least once
Oiling windmills is on some farms a very
neglected matiter. Anyone can farms a very
this is hard
home is hard on the machine. During harvest
their machine every hour or so, about oiling
but let the windmill run, day for day till it
finally calls for oil by "soluent
finally calls for oil by "squeaking." for day till it
Let a gasoline engine or in
machine run without oil and you will any oth
that it turns harder and harder. Soon notice
wometimaills
sometimes do not nump a whole day simply
besanse the bearings are all dry and consequently
turn hard. If any bearing has been neqlected
turn hard. If any bearing has been neglected
till it "squeaks" it is well to use a little graphite
in the "squeaks" to smoothen the bearing. Graphite
in the s.
is obtainablo from
in the oil to smoothen the bea
is obtainable from a drug store.
Windmblls are, of course, exvosed to the wind
dat well-built machiness and towers are soldom
damaged. A windmill should never
damaged. A windmill should never be loft run-
ning through a storm. Many windmills are dr
stroyed ing this
stroved in this way. Many windmills are d.
Around here two windmill wheals were hlown
Around here two windmill wheals were hlown
of which did not take the prover care. It is
well to see that all nuts are kent tight. It is



Jennie Bonerges Ormsby
The omly two-year-old to make 832.9 ibs. of butter in twelve months, and quality
in the Canadian R. O. P. She is the only fourloner
in the Canadian R. O. P. She is the only four-year-old in (anada to qualify 30.76 ins. of butter in seven days, and $125.4+$ lhs. in thirty days, and the
only cow to make 33 lbs. of butter in seven days, and 125.20 the in
thirty days

Care should be taken that the pull-in a son, Hamiton.
a good condition, especially if the wire is
of the old-fashionet of the old-fashioned type.
 tops. The wire should wire breaks the mill al condition of the soil, becaus. of the diversificafleel or, better still, copper wire, as malvanizing manure. In favorable years the or stable s sometimes poorly done and the wire corrodes. quality of grain will be improved, and in poor
Braking of this wire is one of the and causes of storms wire is one of the most frequent.

 wighty a cement fil. kiving way hefore the handled on evens homestead, and herd can be
ceeds invested in im-
provements instead of provements instead of
heing needed to apply on old bills. Dairying Wh1 enhance the profits
of $I$ a in-g rowing in
several ways : First, in poor years, whzn it be the grain crop is goin to he a farlure as grain,
$i f$ can be cut and harpasted as hay, ${ }^{1}$
pastured; or, if the grain is of a poor grade,
it can be fed instead 11. can be fed instead o
marketed. Thus a total loss may be converted into only a partial
failure, because of the sults at dry-land exper ment stations show that following a cultivats crop like corn, the yiel better, than that follow ing summer tillage. The expense of good summer
fallowing is found equal to that of growing crop of corn. Fed to
dairy herd as silagen dairy herd as silage, the
corn crop is likely average as profitable as
any product, and, in ad-
dition, the cost of wheat part, in the negative .omse stave silos wom down in this locality, hut mo coment. T belies. Coment silus are fire and stom thon. belien
$\qquad$

## HORTICULTURE.

Remedies for Root Maggot Owing to the difficulty of destroying root maggots and other subterranean pests and the cost of chemicals for the purpose, growers depend

targuly upon methods of prevention. To be thoroughly effective these methods should be employed before the fy seggs are laid A A common depositing egges consists in parent sand soaked in kerosene-a cupful (6 fluid ounces) to a bucket of dry sand-at the base of the plants, along the rows. This mixture will also
kill young naggots attempting to work through For all forms of root maggots a carbolized form of kerosene elnulsion is effective. This is
preparea by adding to one pound of scan, boiled in one gallon of water, one-half gallon of crude
carbolic acid, and diluting the whole wifh from 35 to 50 parts of water. This mixture is applied
about the stalks of the plants affected. It is best to use it. a day or two after the plants are up, or
are transplantel, and to repeat every week or ten days until about the third week in May. Mineral fertilizers are useful as deterrents,
articularly when employed just before or atter a particularly when employed just before or after a
shower has
thorsughly wet the ground. shower has thorsughy wet the groure kainit
principal fertiizers for this purpose are krate nitrate of soda, and sulphate or chloride of potash. They may be used as top dressings be-
fore planting, or if not employed until afterwards tore planting, or applied as nearly as possible to they should
the rocts, the earth being turned away from the
atants ior this urpose plants ior this purpose. These fértilizers, also,
by stinulating plant growth facilitate recuperaby stimulating plant growth facilitate recupera
tion from root-macrot attack There is great danger in the use of other fer tilizers, such as stable manure, cottonseed meal
and orranic fertilizers, comprising moldy leaves and plant life, and even fish scrap. In an
deac
account of this species published several en account of this species published several years ago
the writer stated that numerous instances
had accumulated iately, and a long list could be fur nished-where the presence of the insect could be traced to the causes above-mentioned. It is advisatie e the efore,
of any kind rotted leaves, or other or manur tilizer, and, aiove all, to avoid further planting in fields which have been infested, or contain diceased onion prants, or where cabbage, cow peas,
or any othor plants have been turned wider tssoon as seed fails to appear at the proper time, or the plants show signs of wilting and magrots are found to be present, the seed may be ined out, or the injured plaits pulled an
destroysd,
together with the vounger magrots Most of the methods mentioned above have meen used with success against onion maggots are refuired in many cases of ordinary infestation of veretable roots. Cther renedies have been Chittenden, in T . $\&$. Year Book.

One Crop at a Time
After all that has been said and written to
the contrary, many indifferent fruit growers still persist in trying to grow a crop of grain or hay
in the apple orchard-trying to get two crops from the land in one year, and this often with very
little cultivation or fertilization. It is said that a crop of arples takes as much out of he land endeavor to prop of wheat, and yet soue woth with less expense of Pitting land in condition than is given in the
premparation of a field for winter wheat aione.
$A$ Ninmer fallow is sometimes prepared for wheat, Onis class of orchardist never sum is harvested, Whips a haif a crop of wheat and practiogly no oney in fruit and declares in favor of the grain Thewing to continue it and let the, apples
The bearing orchard is no place for mixed Ing. It is one tield which should he pulled Hecial of the general rotation $\begin{gathered}\text { and } \\ \text { ond } \\ \text { treatment. } \\ \text { Tive } \\ \text { means }\end{gathered}$ - and liberalls, shoultivation should be frequent Wrees, shonld be riponed up by using cover The the sover crop will soon be here. Kee or cultivator, going until the middio kwheat, cow peas, rye, or whatever you "ose The cover crop is not harvested, and
the plant food taken up by is stored and
turyel for the future us is the trees. Fruit ving and grain growing cannot be carried on

Is Lead Arsenate Affected by Frost? Iruit and potato growers who have had spray-
ing materals held over tive tere always con-
fronted with the question whether these have been depreciated by the time or conditions of storage. It is well known that lime sulphur is also, to keep lead arsenate protected from frost, though the necessity of this is not so clear.
Prof. Harcourt of the Ontario Agricultural College, says so far as he knows lead arsenate fully oxidized salt, so that it could. not be
affected in this way, and he cannot see why frost should in ary way influence its value as
a poiscon.
He used some in his a poison. He used some in his own gar-
den this summer that was exposed to a loy hemperacure the whole winter, and
it has given excellent
if
vesults. Naturally, if the container has been opencd the amount of
moisture wiil be less and the percentace of moisture wiil be less and the percentage of
arsenic greater than in the original substance.

## POULTRY.

Separate the Chickens.
Some very successful poultrymen separate their sex, the former while the chickens are quite young and the latter just as soon as the sexes are recognizable, and a few of the more precocious males begin to "boss" the others. Some of
the Mediterranean breeds develop at an earlier age then do the largest English and American breeds, and require attention earlier than do the latter classes. If tine birds of hoth sexes are left together it will be noticed that a few of the males
having the sex instinct a little earlier than the others commence to show their "authority" around the pen, with the result that the other
birds become timid and remain away from the hirds become timid and remain away from the
feed when their pompous mates are busy eating


Royalton Canary Hartoj. The only bull in Canada, with the exception of his brother, whose dam made
34.60 lbs. of butter in seven days, and gave 116 lbs . of milk in one day, and . 6.196 lbs. in tixty days. and run from them when these better. amateurs should do nothing ountry. Therefore eveloped birds show a desire for a test of ness. which cower beiore their mates do not make the was another reason why I chose ans. That satisfactory growth which they should make, and Plymouth Rocks, or Orpingtons will scarcely the more-matured birds gain nothing from conditions either. When this stage arrives the sexes It is also a practice to be recommended to keep the birds in the various pens as nearly as rule do as well in the same pen with and feedine from the same troughs as much larger far apart, do letter kept in different pens. Inferior, sickly, or small chicks should invariably
be kept away from the best stock. It is better for both. In the average farm, however, the few chickens raised have such a large free range much attention to these points is necessary, but even then it is often noticed that when the chickens are all fod in one large flock, including ockerols weak and strong, pullets and not get their share, and are timid of a few of the huger, stroner cockerels. It is well, where
surprising how well they will stick to the place in which the first days of their lives were spent. Where this is done the various broods at least become older the difficulty grows, they wander from pen to pen, and something is necessary to which, for some reas stock, and the jew birds their mates. Sinall, chickeh-wire enclosures to keep the different sizes separated would be a good

## The Hen in the City

 Editor "The Farmer's Advocate"I have a fellow-feeling for vour contributor who gave his experience with hens in the city.
I like once in a while to come across one wha will take up a sideline mostly for the fun of it or for the satisiaction he gets out of the work without squeezing for every cent he can get out
of it. There are many sidelines a city man of it. There are many sidelines a city ma
might take up that. would yield him large returns in cash than, this man got from his hens. but ink of the satisfaction of having eggs on
your table that you're not afraid to boil in the shell without dreading to crack them, not know ing what you may find therein. Also the comfort it is to have a chicken that you know will rast, or a fowl that you don't have to star
bciling the day before, because the age is uncer I too had an experience with hens in the city
but I think I beat your contributor in returne I didn't feed any rats. I knew them of old, and began by making the henhouse rat-proof with metallic siding. The lot had 30 feet of frontage (or backage) and 40 feet of length was available $4 \times 3$ closet at one end for storeroom, with that a simall number
ind was wise to the also
and Thive better returns per Therefore, I only wintered nine hens and :
rooster. I wanted : rooster. I wanted, a
good table fow 1, as
well as an egg prowell as an egg pro
ducer, so decided on
White ducer, so orecided on
White Orpingtons.
Five of them sat and Five of them sat, and
averaged a bout 10 averaged a o out
chicks each. Some of
the eggs were. sold at the eggs were sold at
$\$ 1.00$ a setting, and $\$ 1.00$ a setting, and
some of the best young
stoo c went of for breeding purposes lat
good prices. It paysthecity
manwhokeepisa manthokeepis a
limited number ol fowls to have them pure-bred. They cost
a little more to begin a little more to begin
with, but he is sure to get back the extra our gay in either the saie
of settings or breeding of settings or breeding consider it fair to ut dersell the poultry fanciers. They go to
much trouble a nd expense to keep up good, pure-hred strains which throughout the Plymouth Rocks, or Orpingtons will scarcely
bother going over a 36 -inch fence, if given plenty bother going aver a 36 -inch fence, if given plenty
to eat. The $30 \times 40 \mathrm{ft}$. space was fenced with to eat. The 30 x 40 ft . space was fenced with
58 -inch poultry fencing, and a fence went down 58 -inch poultry fencing, and a fence went down
the middle, dividing the yard-space in two equal portions. A door opened from each of these yards into the henhouse, but one 44t. gate did at
he opposite end, by hanging it midway between the opposite end, by hanging it midway between
the two yards. which were partitioned from the In spring the hens were shut out from one yard simply by closing the door on that side. The round was spaded up, and planted to radishes, peas, beans, and sweet corn. By July 1st the use, so the crop was used up, or nearly ready for use, so the door leading to it was opened, let-
ting in the hens, and the other one closed. The
hens would be in this new Tun through the blazng heat of July and August, so in addition to he corn left standink, sunflowers and sugarcane Tho 0 tor provin, sher. The other run was then spaded, and planted and celery and celery. As early as possible in fall, the hens
were aguin transferred to this yard, so that the
other could be sown to winter rye. This would provide them with green food in spring, and per Than this, there is no better sideline for the man who is confined in office or factory. When counting his gain he should take note of the
improvament in health and spirits brought about by the wholesome work.
I liked it so well that I now have a country I liked, it so well that I now have a country
nome, where $I$ can disport myself for at least a home, where I can disport myself for at least a
part of the year, unless I decide to stay for gooid,
Essex Co., Ont.

THE KADI.

## FARM BULLETIN.

Twenty-five Years' Experiment Record
The complaint is often made that the results of the work of agricuitural investigations are often lost to anany for whose information they ar issued, by being buried in "blue books" too com-
plex and prolix to be waded through by farmers. One good service through by busy farmers. One good service of an alert agriculto keep its constituency well informed regarding this experiment, and conclusive demonstrations of these institutions. As a variation from the orthodox style of report or bulletin there has just been issued by the Department of Agriculture, Ottawa, a unique review of the work of the Dominion Experimental Farms from 1886 to 1912 during which long period Dr. Wm. Saunders, who planned them, was their guiding mind in a more literal sense than is somptimes the case. serious consciousness down to the minutice of the plans which he initiated and carried on distin-
guished his directorship. this resume of the outstanding achievement of the experimental farms was entrusted to Jo Spencer, B.S.A., editor of the publications Branch, afid as might be expected from his pre vious work of this character, it has been admir
ably done. From a vast store he has selected with a discrimination that will appeal to prac tical men. and the iilustrations add beauty as
well as utility to the little volume. A number of them given in pairs show the progress horticulture and arboriculture of several of the farms, vividly recalling the accuracy of a
comment once made by "The Farmer's Advocate" regarding the Central Farm, which the genius Dr. Saunders transformed from a wilderness of The sand until it blossomed as a garden. wheat, the rational housing of swine, the advan tage of applying fresh stable manure, and other matters with which our readers are familiar agime, with more adequate equipment the present er predicts a future of still greater Mr. SpenEixcellent protraits of Mr. Saunders and the Minfster of Agriculture, Hon. M. Martin And the
Brace the early pages of the work.

Well, -- Why
Editor "The Farmer's Advo
ncerning the complaint of the Sane 5th issue, armer, that farmers did not get any help from wait you use the got it only after a long to ask that question. 0 ask that question. , and for Canada if every farmer
If we take a look over our members of parlia-
nent the solution is, 1 think mers, hard-working men, compose seven-tenths i the population, and produce seven-tenths of being represented in parliament where they could have a say in how the wealth they produce should be spent, they tell me you can count the cal farmers on the fingers of one hand. or five farmers ever stop to consider what a difference wenty make if they had one hundred and twenty bright and up-to-date young farmers
lown there to battle for their rights? Why Town there to battle for their rights? Why
doesn't every agricultural constituency elect a armer? Why? Mr. Estitor, you do well to ask hat question. Why don't we use common sense
$\qquad$

## Country Happenings

It took fully a month for the people of this district to find out how much damage was done Be the apple orchards by the May frosts. hought that their orchards had escaped injury, but reports are now comiug trom all sides, and seems that we are all in the same fix
There will be no apples of the early varietios and very few of the late varieties. This is and very few of the late varieties. This is never cared for their orchards before were caring will do about, as much damage to our young apple growers' association as 1t did to the fruit, second time. And just some people interested he extent of the May damage from frost the une frost came along. At the first glance hought that it had taken everything eikcept my ypewriter, but I find that the damage is concorn in the trarden. When the weather swee cold on Saturday we covered all of these tender things and left them covered until Monday. On the potatoes we tried the pioneer method of hoe ancovered them for it would not do to ew them buried too long, and on Monday night the All fre forehanded people who to the the ground early have had it so badly damaged that in are forced to replant, and although I was late in gotting the spaces between the trees in the new equal footing with nearly everyone else on an damage to the corn was very considerable, and altogether farmers of this district have had a ard time of it with the frost this season.

This week I have a dog story to tell, and Collie, did something that it. Should give him a high


Victorlan $=87808=$
This grand young bull, head of the Spring Grove herd, will be sold at the dis lace in the persion sale of the herd, at Ilderton, June 25th. Will give him cnedit for it. Unfortunately, when I came along with disk, and later one had the time or knew is very limited. No ker, she simply stood up and the corn matr erly, and beyond keeping the hens away from the fecture. Though the disk passed her within
house and chasing the cows from the wire teach side she refused to leave, thoug nearby, he chasing the cows from the wire fence nearby, he does nothing of value. It seems im-
possible to make him understand what is wante when the cows are to be brought home wanted ing time, and even when he does go after them he Talways goess at their heads and turns them pack. Taken by and large, Sheppy, although well bred,
is just about as useless a dog as there is in the
count country. And yet he did something out in the ordinary. The other night, when the boys got home from the village, it was found that a par-
cel had been dropped from the it was known that it must have been dropped
it mome
some distnnco some distance up the road have been dropped
quite awhile hefore they quite awhile before they got home. As it was
too late and dark for anyone to go after it that
night it was fringen night it was ark for anyone to go after it that
back over the road before five a boy should go hang over the froad before five o'clock in the mor-
ning to hunt ior the parcel. As Sheppy was
around at the arrangements beime he undoubtedly heard was anything of that. 130 ut in the morning we thought surprise. Just as the hor was soing to start on
his trip, Shepp, came to the door with the far-
cal in his mouith an in his mouth. We usually gose wot for a run
aromd the farm when he is turned ost in the
each time I passed each time I passed with the her nest and
the road, and he has never been trained one kindly explain nther dogs. Now will some that parcel at that particular minute bring hem never before carried anything home. If he had hear so much about this achievems we sometime. to his famue. Everyone would be sure that he gone aiter tood all that was being said and had in his past life to justify such there is nothing will give him credit. As a matter of no on after believe myself that he understood and went he brought it home in his mouth in good condi that just as if he were one of the good dogs
that always do the right thing at the tight time.

Speaking of the intelligence of dumb creatures that is worthbition when disking the orchard ground for the first time When going over the made a lot of excitement in one corner kill-deers ing They futtered ahead of the horses screamhabit when anyone approaches wounded as is their the horses standing and hunted carefally left nest ands in the hope that I might find their locate it and finally work without minding their protests with my couple of dame corner a stroke of the disk with outstretched ago a killdeer suddenly stood up rom the end of the disi and tail, about a foot and der several minutes that bird stood horses, the laws a lecture on squatter rights, and movement. homesteading and the suffragette and to the little bory who was riding to me anee. The bird made no attempt to on my eggs and scolded. thest. She simply stood over her I touched her with the end of the move when of the buggy whip point out to to $\mathrm{h}^{\prime} \mathrm{e}$ hittle boy the earthgrey eggs, over
which she was standing. $\underset{\text { Even }}{ }$ When we were so
close to them it was hard to disthe clods, and was no wonder that the previous search It is prob bable however, that 't he
disk destroyed 'the first setting, and that these were new
eggs. What
6 im pressed me was
that I had never seen a killdeer act
in this way before in this way before
Had she made up
her her mind that I
was probably a reasonable bein and only needed to she on each side some refused to leave, though she made some very pointed remarks about be

One morning recently, I had a lovely couple mates with a pair of blue jays and other birds children had called my attention to a young the I thought I woulder one of the apple trees, and o examine him pick up one of the youngster touched him he started to squawk and thing began to happen. One blue-jay struck me back of the ear with beak and claws and managed to struck me fuil it the face. As I beat the other a couple of rohins that had evidently been
attracted beat them away attractod by the noise also began to been sworp at my head. As this was the forst time
I had ever sem birds of anather varien to help I stopped to to watch the variety turn in making iust is much noiso as if $T$ were trying , Wr the time they had quineted down the blue-jay's.
had managed to get thair youngsters away to a
nace of safot

enemies, but they seenined to forget all private
gruagese
when an
It scene. It is interesting to refect that although
theses jays would protect their young at the risk hhese eave would protect their young at the risk
of their
own and the brooding season is over, they would pror
banly rob their own young of any dainty morsel bably rob their own young of any dainty morse
just as quickly as they would another bird.

## Our Scottish Letter.

June has arrived, and with it some bright and
anny days, but there is still a curiously cold sunny days, but there is still a curiously cold
"snap," in the air, and it is hard to beliove that
we are into the we are into the second month of the summer.
Everything that grows is now looking well, but even in the most favored areas the season, as
we put it, is a fortnight later than usual. The we put it, is a fortnight later than usual. The
month of May was abnormally wet, and espec-
ially in Perthshire, the extraordinary rainfall became a positive menace to the lives of the inhabitants. On one occasion during the month
it rained continuously for 36 hours, with the sult that the Tay rose to a great height, and all the rivers were in flood. The lower parts of lambs were carried away by the torrents. We and wo certainly saw no March dust. In spite of these things, and a very late turnip sowing
season, there is a keen demand for almost all kinds of farm produce, and business generally has been said in Parliament that reate. It reached the cresi of the wave, and that the outthe average man sees no evidence of this, but those who prophes
than the average.
Among questions presently agitating the pmblic
mind is one concernine the setting mind is one concerning the setting up of a
tuberculin-testing station. The Board of Agriculture and Fisheries have determined to estabhot, and Mr. Runciman has indicated that he scotland by the fact that establishing another in subject it divided. At the meeting of the er, a resolution in favor of establishing such hen meetings on the subject nave been held in
Alserdeen, Inverness, Perth and Northern men are in favor of such a station, but the Western, or Ayrshire men, are opposed.
They maintain that such a station would be useThey maintain that such a station would be use-
l.ss, unless a guarantee was obtained from all
 final the results found at such a station. As
things are the only guarantee given of that nature has come from South Africa, and its share in the export trade, while increasing in vol-
Unless Canada and the Tited States agree that testing at such a
rovernment tuberculin station, as is contemMlated, in Great Britain, would be final, Ayrurorse than useless. They would much rather have their animals lested at home. If they re-
acted under these conditions there was an end of lhe matter, and nobody was a bit the wiser: if they passed the bargain was completed, and animal was henceforth at the purchaser's
atik. If it reacts on arrival at the other side Hat is his affair. Further, the Ayrshire men mans nothing so far as getting rid of the disse is concerned. It is only trifling with it : in the country, and leaving us at home with $1 i, n$ of the Northern breeders is simple. A testmint have one in Scotland, or we will be cut of in:d it will not pay to send cattle south dershot, and then find that perhaps they
not pass the test. Many of one's neighbors not pass the test. Many of one's neighbors if a boon get to know what had happened, e northern men say, let us have the station nted either at Glasgow, or at Perth, and we
y rest assured that Mr. Runciman would not oo far as he has done without some grounds
believing that the trst in this country would accepted as final by all our customers. So as the argument that the setting-up of such
tation would put a premium on the export of foreign or Colonial customers refusing to take thing but sound cattle is the best of a all
ons why home hreeders should do their very
to produce these to produce these and nothing else. This is
cfiective answer, but we should like to see ders here more favorable to the tuberculen
and more disposed to accept it as their
men will win, and that Scotland will have her
tuberculin. testing station.
Death has been busy in the ranks of leading Death has been busy in the ranks of leading
stockmen of late. Thus outstanding men have recently passed away. T. H. Bainbridge, a rioted
hreedler of Aberdeen Angus cattle at Eshott in Northumberland, was one of the most successful
husiness men in Newcastle-upo-Tyne hate in life to breed Aberdeen-Angus cattle as a holbby, and soon achieved distinction. He was kept his herd to the front. Unhappily none of his family cared for cattle, and his herd was therefore dispersed. On the day of the sale it
blew a hurricane, and business was carried through in great discomfort. Nevertheless it of a great sale. Sixty head made an average
of $£ 64$ 16s. apiece.. The highest price was 215 guineas paid for a cow. Two two-years-ol
heifers made 130 guineas and 150 guine yearling heifers made 170 guineas knd 100 guineas, and a bull made 160 guineas. To-day the deaths are announced of Joseph Lee, of Con horn cattle and Border Lelcester sheep, and George Douglas, Upper Hindhope, Jedburg, on one
of the foremost hreeders of Cheviot sheep. Mr Lee achieved distinction with his cattle, obtain ng. high averages for his bull calves, and one 850 guineas for a Sherthorn bull calf. He also paid one of the highest prices ever recorded for a
Border Leicester ram. He gave 151 highest priced Polwarth ram at Kelso. Mr. Lee was a Northumberland man by birth, and before coming to Scotland had extensive knowledge and experience of farming in Cumberland, near to
Ibrampton. All of these gentlemen rendered eminent service to agriculture, and they will be greatly missed.
Industriai and social problems still loom Lig
on the horizon. The demand for smali holdings in some districts is very keen. for smali holdings in chiefly in districts in which land can hardly be farmers are beginning to plead for small hold ings in order to furnish them with a supply of
labor to work the large holdings. will, no doubt, obtain increasing support as time goes on. The enormous emigration to Canada women can hardly be got to work successfully at class as has gone is a first-rate thing for Canada, but it is not an unmixed blessing for us here. Some parts of the Island of Lewis, and our Board Agriculture is facing the problem, not of emigration, which solves itself, but of migration, that is the transference of population from one dis-
trict to another. A transference of this kind which would do an excellent service would be which would do an excellent service would be
from Lewis in the West to the Beach Isle on the other side oi Scotland, where labor is scarce, and
houses are being kept empty so that the proper class may be brought to fill them. You could afford to leave some remnant of our people with us, and we trust this migration scheme may work out to some good purpose.
Ireland has recently been visit
Ireland has recently been visited by a large ing. Their itinerary was through the south of and west from Dublin to Limerick, and from Limerick to Cork, and then back to Dublin.
This is preeminently the area of the small farThis is preedninently the area of the small far-
mer, or landowner, and dairying. The co-operative movement caught on splendidly throughout
this area, and everywhere it is said there are this area, and everywhere it is said there are
symptoms of prosperity and contentment, where syinptoms of prosperity and contentment, where
once there was endless trouble. The system of making butter at the creameries has immensely
improved the character of Irish butter, and it now holds a high position on the British markets. Extreme poverty was hardly met with during the ten days' tour, and on all hands it was adinitted that rapid strides had been made
in agriculturc. The chief agent in effecting the improvement has been the Department of Agriculture and Technical Instruction. In every secsults have work of this Department splendid regreat improvement has taken place in the quality and merits of store cattle and sheep, or rather country hias increased greatly in value, and plenty first-class cattle can be seen any day in
the quarantine station at Merklands, where Irish cattle are now nearly all landed. These cattle are a credit to any country. The problem,
however, faces the Irish breeder, "How is he to maintain his reputation for dairying, and yet
breed high-class store or feeding cattle? The two seldom go together, the dairy type of one is not gencrally regarded as the ideal butcher's ing to produce the dual-purpose cow, and they
think they can succeed. They are establishing a recuster showing not oniy what the cows have
done in milk yield, but also what they are in
themselves when judged according to points
to determine their relative merits. The register thus founded for Irish dairy cattle is designed to show how a well-made cow may be at the same ime a good useful milker. Some are sceptical Department are buovant and hoveful, but the anticipate the time when they will be able to cet it is possessing good beef-producing qualities. becanse the use of beef-producing cattle only for breeding purposes has undoubtedly impaired the filking properties of Irish cattle. What the tell. but unquestionably the settlement of the Agrarian trouble, and the creation of a peasant proprietary have effected a revolution in the
social and industrial condition of the country. ondition of the countr
SCOTLAND YET.

## Niagara Fruit Prospects Good.

 tion has issued a report on fruit cron conditiona based upon reports received from about a hundred condition of There is only one report of strawberries having been winter-killed. A few tomatoes are reported Grapes were killed by frost at Niagara. Grapes acalities, and cherries partly frozen Wow-lying Speaking generally, frost injury has been slight. praying was, as a whole, done on time, and of apples, which have not yet recelved the case marized, The average set of crop is thus sumstanding for a good average crop from all treee and varieties :berries, $66 \%$; $70 \%$; cherries, 71 currants, $721 \%$; Gooseberries, ported separately, showed $90 \%$, sour onty when apachese plums, $65 \%$; European plums $68 \%$ early peaches, $68 \%$; late peaches, $74 \%$; pears, $79 \%$;
apples, $63 \%$, (Baldwins and Sples reported 11ght). is too early to estimate tomatoes or grapes.
It must be remembered that lit is rather dimcult to form an accurate estimate of the future rop at this early date, but later reports will

Canadian National Fruit Growers? Officers.

## of fruit grow-

 ers a movement was started having for its object Growers' Association. A draft constitution and provisional by-laws were adopted by the conferCold Storage Commissioner Dominion Dairy and dertake the organimation. The election of offcers is now complete.Membership in the association is limitited to the officers of the provincial fruit growers' as
sociations and such other persons as may heresociations and such other persons as may herealter be named by the association on recommendar:
tion of the executive. The provincial officern who have been elected are :- President, Robert
Thompson, St. Catharines : Vice-President, S, O, Thompson, St. Catharines ; Vice-President, S, ©.
Parker, Berwick. N. S.; ; Secretary-Treasurer, P.
W. Hodgetts. Toronto ; members of commitien W. Hodgetts, Toronto ; members of committeo W. C. Ricardo, Vernon, B. C. ; R. M. Winslow,
Victoria ; Manning K. Ells, Port Williams, N. S. The fruit division will, now turn the matter

A 300-Day Test Proposed.

## Shorte Executive Committee of the Dominion

 shorthorn Breeders' Association have been conR. O. P. tests of shorthorn cows cover a period of 300 days instead of 365 as originally proposed, and as followed heretofore by the other posed, and as iocieties interested. This would mean practically' a ten-month milking period, and would admit of a cow under test having the full ad off in time to freshen in one year from date of previous calving. The change would be a good
one, and the standards are low enough to perone, and the standards are low enough to p
mit any fair milking Shorthorn cow to easily in three hundred days.
Calgary $\begin{aligned} & \text { despatches state that Dr. J. G. } \\ & \text { Rutherford, } \\ & \text { C. M. M. }\end{aligned}$ heretofore Superintendent of the Hust)andry Branch of the Department lo Natural Resources of the C. P. R., has been ap pointed Superintendent of the Consolidated Agri-
cultural and Animal Husbandry branches. Pro cultural and Animal Husbandry branches. ProAgricultural Branch, has resigned to take charge of the Provincial Government's demonstration
farm at Olds.



## Chicago

Cattle,-Beeves, 87.25 to $89 ;$ Texas
Steers, $\$ 7$ to $\$ 8.10 ;$ stockers and feeders.





Gossip.
A correspondent of an English exchange reports the case of a Shire mare recently
giving birtt to a foal which hhe was un-
able to on ourish. The foal wha placed on a young heifer in milk, the cow taking
kindly to her protege, and the two are kindly to her protege, and the, two are
sean together, side by side on the pas-
ture, in perfect content and apparent
C. A. Brodie, Newmarket, Ont., im-
porter and breeder of Clydesdale horses,
porter and breeder of Clydesdale horses.
sends a list of sales which he has made
suring the past during the past year, and which shows
that the class of horses he is handling is meeting with the eppporavel of Canadian
horsemen. The list includes nine stalhorsemen. The list includes nine stal-
lions, three of which, Bomnie Dee (imp.).
Conshol Castel Laa, and Torrs Tyne (imp.), were
taken by R. . . HItrby, Manchester, Ont.
Fyvie's Heir (imp.) went to R. Harman.

 Geordie (imp.)., to
ket; Tatler (imp.),
E. Randall, Newmar-
to
John J. Miller. talla, and Galant Murray (iimp.),
J. Howard \& Son, Fanirbank. list of mares includes thirty nine head,
all of which were imported but two, and tion of Ontario. The list is too long vear's business. It in ned oo anys
Clydestales, see Mr. Brodie's advertise thent in this paper, and write him
tewmarket. ( ontt

The Secretary of the Canadian Stand
ard- bred
 the breeding of Standard-lured horses, the
Canadian standard-bred Horse society is
 bred brood mare with foal by her side:
Canadian National Exhibilion To Canadian National Exhibition, Toronto:
Canadian $\begin{aligned} & \text { Industrial } \\ & \text { Exhibition, Winni- }\end{aligned}$ peg; Central Canada Exhibition, Ottawa,
Edunonton Exlibition Association, Ed monton; Great Eastern Exhibition, Sher-
orooke; Nova Scotia Provincial Exhibi-
Uion

 ured in the difterent classes at these
vhilibitions, nult be recorded in our
 Cevist ration over 1,100 horses, and
and
will be published this yeal owners should pave thished this herses a
at
It it ore therefore desirable that a
$\qquad$

London the Great
(By Hester Alway.) cities, I yet could love London, that and material forces man has ever made," True, her multitudinous, life utterly
wearies me, her heaviv skies and smoke laden airs dispirit, her labyrinthine
streets bewilder, yet her charm in streets bewilder, yet her charm is ex-
haustess-treasures of the past, and all nations are there, architectural glory,
stores of arit, shrines of the great. To sail down the Thames from the Old
Swan Pier at London Bridge in a boat medieval in type, past the grim and steath of long - dead centuries; to very the corner at Old Curiosity shop, and Gardens with their cloister-like stilness prise grateful as unexpected; to be Strand and Cheapside is along the ine intense earnestness. or is it the
dogged, blind purpose of habit and necessity ?-that sweeps the human tide along; great gathering international in import, brilliant robes of office, or in Prince Albert Hall. with its sea of 10,000 faces, minster Chapel, to honor the memory of che Titanic's greatest passenger, ${ }^{\text {. }}$.
Stead, is to feel the pulse of thrilling life, world-wide in sweep; to drink afterhis wife in sweet gardens in the very heart of Old London, gardens hushed as college halls are ranged, is to rejoice in ne of those pauses of life England eems to understand so well how to pre, and so to prevent the fever of morning hours, and through Hyde Park, to see wealth and fashion abroad; to
pass through the East End is to behold degradation and misery unsurpassed in all the world; and everywhere, and at an-
times, to be in London is to be conscious, dully sometimes, sometimes acutestill, sad music of humanity." de is not easy to discriminate between
places where there is focussed so much if ahsorbing interest, but perhaps first all, in the estimation of the stranger,
WestminsterAbbey-the stranger, I say, fecause the Londoner might put the business man with wide interests, has assed all his days in the city, yet never
abse visited the world-famed Abbey hurch. Church, - did I say ?-more fitlame, so it seems to me, "England' nd yet' again, and once again, I took hrough its stately aisles and wandering loisters, lingering for vespers, attending Nivine service on Sunday, but the mood ast, the impression was that of crowded
tuss, crowdencess to suffocation, just Heapside makes, only that here the hrongs are arrested in marble. The
are, (IIW thankful I was Wordsworth sleeps heside his rippling Rothay, Shakespeare hadow of the mountains he loved, Car yle beside his mother in dear old Scot-
and, instead of in this crowded city of She dead. Some recent words of the hancellor of the Exchequer meaning
ceorge, came back with new te, with a friend, was leaving the Abbey er a funeral, when here some day."

Most you will not," came the quick, al- piligrimage, Chelsea, the home of Thomas to me under the shadep of "You will bury, Abbey ${ }^{1}$ was not a little interested to to
read in the Morning Post the following from Oliver Wendell Holmes, approvingly quoted: "On the whole, the Abbey
produces a distinct sense of being over crowded. It appears too much like a
lapidary's store-room. Do not look around you with the hope of getting any
clear, concentrated, satisfying


Westminster Abbey and St. Margaret'ṣ Church, London
 ric-a-brac. Pardon me, shades of the hesitation and shrinking with which "The Mecca of Methodism" could not the feealing that I was intruding in
ine passed by,-Wesley's chapel, where the Holy be passed by,-Wesley's chapel, where the Holy of Holies, an inner shrine
famous preacher ministered for fifty-three hearts. years, assisted by his brother Charles; was written the French Revolution and also his home. What delightful reading the Life of Frederick the Great, the lat those autograph letters displayed in his ter occupying thirtecn years; the garde and mind of the great man! "I have by Carlyle; the snug basement kitchen the credit of stationing the preachers," where Tennyson loved to sit and smoke where they will go for all me"; -a senti- thus spent in silence that Carlyle said


North Transept, Westminster Abbey
ment some superintendents to-day might when the poet rose to go, "Come again The little prayer-room soon, old friend, we have had a grand
echo, I fancy. The the spot it was. In no place, however, ily life centered, all had their history. have 1 so experienced (tonality that has most gracious terms in the name of the passed, as in John Knox's house at Queen a baronetcy and pension to this Edinburgh. A living presence, an aroma eminent man of itactic reply, "Titles of hor of prayer, a penetrating spirit pervading are in all degrees out of keeping with
the very walls, was there.
or money, he was already passing already passing Of the British Museum I cannot speak preciate the reply of that writer an dent of Rome, to whom it was suggested that he write a history of Ancient Rome "It would entail too lengthened a resi-
dence in Bloomsbury ," and Egyptian departments I visited re peatedly, Bible in hand, and as record after record in stone and marble were evad confirmatory of the Scripture ao selves jubilantly through my soul, "For
ever, oh Lord, Thy word is settled in heaven.'
Perhaps my greatest day in Londo dreams of the artists found interpreteion it may heart, a private interpreta o me. A remarkable series, by EL the four paintinge with their brief decriptive sentences portraying vividly 'r' "The Heart Aspires," "The Hand Refrains," "The Godhead Fires,"
"The Soul Attains." "The Annunciation," by Arthur Hacker, is wonderful in its conception and the mpression of purity it conveys. 0 maiden in the flowering gossamer, with tery, the world waited long for theo, long for the angel-message whispered to
thine ear, long for all the grace and truth through thee incarnated. Ah, and are there not other angel-annunciatione To close my letter on London, haviag spoken only of places and pictures and
tombs and throngs, is to convey an is adequate conception of what my repeated visits to the greatest city of the worth meant to me. To deal only in general
ties, to shut out the individual, is to veil the deepest life; and yet how may one write of the sweet intimacies of his intercourse, the meeting of kindre don was transformed from a vast wilder ness of roneliness amid the multitudes, a the sudden finding again and again and the opening of doore into the poleco beautiful of noble souls.

Dust and Its Dangers, $\underset{\text { ridge }{ }_{\text {at }}^{\text {at }} \text { paper given by Miss Jennie M. Mar }}{\text { the }}$ Vomen's Institute.] Before discussing this topic, it might what is really meant by the word "duat. Webster's dictionary says that "Dust fine, dry particless of earth or other mat
ter, so small and light that it may ter, so small and light that it may be
raised and wafted by the wind." Thit os the simple, common, omnipresent dust the bane of the tidy housekeeper, th
torment of the cleanly citizen torment of the cleanly citizen who goee
upon the streets in ill-kept towns, which is watted by every breeze without, and stirred by every footfalt within.
The dust particles of the air
The dust particles of the air may be roughly grouped into two classes: First,
those larger bodies which are readly visible indoors or outdoors; and aeacond
ind the smaller particles which are usually only seen when strongly iluminated are met with out of doors, especially in dry and windy weather, consist largoly of small fragments of sand, broken albres of plants, pollen, fine hairs, ashes, abres
of clothing, and other fabrics, paritiolio of lime, plaster, or soot, parts of seode material
The smaller duat particles, whose proe-
ence we may be aware of by the cholking
rensatlon which they cause when breathed in, even though we do not see them, are
most visible when a ray of sunlight shines into more or less darkened places.
These are light, and consist These are light, and consist of fragments
of fine vegetable or animal fibres, and or fine vegetable or animal fibres, and
incorporate the greatest variety of bactorie and germs.
It is not necessary for us to enter in
detail into those conditions of soil detail into those conditions of soil, cli-
mate, and human occupation, which favor the presence of dust in the air. We all know that dry air, dry ground surfaces, and winds, favor the distribution of dust, to keap it in check. We know, too, that cortain occupations. connine people to
closed rooms, or places where dust closed rooms, or places where dust par-
ticles of various kinds are very abunticles of various kinds are very abun-
dant. Thus, day atter day, persons are
confined in air charged with coal-dust dant. Thus, day after day, persons are
confine in air charged with, coal-dust,
atone-dust, or cotton- or woollen-dust. As was mentioned before, the smaller ust particles contain myriads of baceria and disease germs. Some germs
re not only harmless to man, but are re not only harmless to man, but are
so very necessary. For example, the also very necessary. For example, the
germ which is found in yeast, and the germ which causes milk to ferment
Other germs, on the contrary, are ver Cther germs, on the contrary, are very
harmful. Among these are found the germs causing consumption, typhoid fever diphtheria, blood-poisoning, and many amon among the human race. It ha now become well known that if these germs are kept under control, there wil be no more trouble with such diseases
as are now caused by the so-called disease gerin All sorts of bacteria-laden material,
then, when dry and ground up, as it s
readily is by the varied movements readily is by the varied movements
men and animals outdoors and indoors men and animals outdoors and indoor
may become a part of the fioating dus
These are driven hither and thither by air currents, and finally, always, sooner
or later. settling fither by or later, setling down to the soone low
available resting-place, until again disturbed.
In winter months, and during rain storms, and when he air is still, th tively small. A rainfall tends to fre the air of its germs by washing then down, while during a snowstorm, many are caught hether cryuld as they form predominate, partly because they grow faster then, and partly because they are very light and not as easily wetted and held down. It has been learned, not only
from common experience, but from long series of careful experiments, that with the air, either through the no in mouth, do not come out with the ex surfaces over which the air passes. Thes foreign particles, floating in the inspired
air, are caught largely in the nose mouth or throat, while a certain number pass down into the air tubes and lungs Now, the body puts up a strong resist many of these particles of dust are many of these particles of dust are ex
pelled from the lungs, although some re pened from the lungs, although soone r
main. If they be simply particles dust not containing harmful germs, they
may even then not do a great amount may even then not do a great amount
of harm, but, on the other hand, if these particles contain disease germs, they ar very harmful, and unless the body is
able to destroy them, that person able to destroy them, that person wil
suffer from them. There is no doubt that a great deal of misery, if not posi tive disease, is caused by the inhaling of dust in the persistent coughs with whic
so many persons, otherwise healthy burdened. Then, again, dust may pro duce much distress when not inhaled, by
irritating the eyes to such a dogr to cause great discomfort, if not disease.
There is a der There is a large number of diseases
which physicians call "infectious." The more important of these infectious dispox, scarlatina, measles, pheumonia
erysipelas, and blowdian erysipelas, and bloud-poisoning. Now,
has been proved without question, that the agent which causes some of these
diseases is some form of lacteria. Encl disease has its special formu of bacteria,
without which it cannot possibly exist Some people believe that consumption is Inherited. Now, this is a very common
mistake. The disease itself is not in herited, but that condition of the hady

quired, sometimes in ways which we does not show-is worse than useless, is usually done at night, but the din
understand, and often in ways which we since the dust and germs are not in this culty is that the rooms are then shit do not fully understand. Some, again. way got rid of, but only redistributed. up, and the result is that in the shan believe that this disease is contagious. $\begin{gathered}\text { Carpets and heavy hangings and up- ing the first odor to greet you is that }\end{gathered}$ so, but there ways it may be considered It has been shown that when due care
It and intelligent cleanliness are provided for, the attendants upon consumptive are not subject in any marked degree to
the acquirement of the disease, but, the acquirement of the disease, but, o
the other hand, where proper cleanlines is not exercised, the attendants are very
liable to become victims to the liable to become victims to the disease.
It has been proved without doubt the It has been proved without doubt that
the infection or germ of tuberculosis is conveyed from sick to well persons


London Old Houses, Staple Inn, Holborn
means of the material discharged from in private houses where healthy persons means of the material discharged from in private houses where healthy persons
the lungs, which is allowed, through live.
carelessness ior ignorance, to dry, and Such practices as the sprinkling of carelessness 'or ignorance, to dry, and The breath itself, the exhaled air dust. sumptives, no matter how seriously ill. is not dangerous; it carries no germs. It is only the solid discharged material us why consumption is such a wide spread disease. The persons affected carry through carelessness or ignorance, go, but wherever the dust laden with thes germ, goes. This preventible disease
will then be held in check only when people come to realize that it is caused always by this rerm, and work accord more or less persistent retention of dust particles in rooms, and with these, the harmful germs, if such are present. Hard floors with rugs which may be
cleaned out of doors cleaned out of doors, as few and light
hangings as are practicable, furniture up hangings as are practicable, furniture up-
holstered as far as may be with smoothsurfaced fabrics, the use of moist dust-ing-cloths, and the wide opening of winon, will confer in a large degree a sense security against the dangers of dust
must have the support and co-operation of every citizen, whether he sends ch
dren to school or not men say, "I have to pay taxes, and send no children." Education is a p and women are a national gain. Imaci if you can, how that man's property and the neighborhood in which he lives would and the intellectual life of the place wools, not constantly stimulated school, well kept, and finished in goo taste, is an educative force in itself that cannot be over estimated in the lives
the children who are fortunate enough spend some years within its walls. I is a pretty serious business to the age child with his daily routine of schoont
work, and if in after years he cal work, aith pleasure to his school and it surroundings and the games, the strelluousness seems a very little thing, for after all, we like to forget the disagrec
able to remember the A woman, trained in such a A woman, trained in such a school. furnishings nor an unhygienic home. means better homes, better men, bet

Letters from Abroad
on mediterranean shores

- Siena, May 19, 1913

My dear. Jack, -I could hardly believe
my eyes when I received in your distinguished a letter written
hand-writing.
aWhatever Whatever has come over the man!! pages and began to read. "Perhaps is suffering from a spasm of repentance over past chirographic delinquencies.'
But, alas! that comer soon dispelled when I read your wa description of the cruel wind that blew the hall door shut on Jean's delicat fingers, and "It's an ill wind " business. out of the old proverb sayeth, and this particuit sent was certainly kind to me, for it sent me a jolly good letter from you
There were one or two statements letter I didn't agree with, but I'll argue them out with you later. Of course I'm awfully sorry Jean is disabled, b
then it gave you such be heroic I such a fine chance a job as pulling nails for you to write such a long letter. But, really, Jack it was a good one, and when I came
the end of it and read that you an Jean were really booked for Europe,
felt like throwing for pure joy, only I couldn't, because Wenly fas Well, as you see hy the heading
this letter I am in Siena. All my I have heard of Siena Brown, all my its name. The soil and the the colo We town, are all one rich, soft brown It is so picturesque, so full of color, ani so medieval, with its towers and its churches, and its streets of old palaces. Rome, Siena seems like tle of moder quietness. The only disturbing element jangling motorcycles that whirl along the stony streets, making as much noise th this world, I wouldn't have a motor-ca asperating when you are standing admi ing some beautiful bit of fourteenth
century architecture to be rudely ened from your dream by a hars squawk, and see a vision of eternity he shape of a motor-car bearing swift shouldn't suppose you woul streets; but then, you were never Siena. Think of streets lined with may
niticent old palaces, with great, carver dicent old palaces, with great, carve
doorways, opening into courts where yo catch tantalizing glimpses of fountain and flowers and statuary. Why shouldn
one dream? You would yourself. Siena is one of the medieval hill-town.
of Italy. It is built on three hills, an.
spiendid gates, which are guarded soldiers and tax-collectors. Walking in Siena is full of queer sur-
prises. You never know prises. You never know what strange
thing you are going to meet when you round a curve or turn a corner. The first time I met a yoke of white oxen with horns that reached clear across the
street I backed into the nearest doorstreet I backed into the nearest door-
way in double-quick time. Even the way in double-quick time. Even the
tram-car turn out for the oxen, and that reminds me that they have the fun-
niest little trolley-cars here I ever saw niest little trolley-cars here I ever saw.
The wires are over-head, and there are no tracks, so the tram follows its own sweet will when moving along. Harmony says the tram-cars of Siena are
the only things in Italy that are polite enough to turn out for everybody and everything, but then, she ${ }^{\text {is }}$ rather sensitive on this subject, having had several painful collisions on the street with pedestrians who blocked her way. Every
section of this country seems to have a road-rule of its own. In Sicily, carriages turn to the left; in Naples to the right; in Rome colt, but the cab-drivers - cars turn to ever they can, and take particular de-
light in aiming directly for the timid ayfarer who is directly for the timid y wheels. The streets of Siena are all narrow and crooked, and either uppish or down-
ish-according to which way you are go ish-according to which way you are go-
ing. The entire town is paved with broad, flat stones, and there are no
sidewalks. sidewalks. Some of the streets are very
short, and terminate abruptly in beautitul arches or sunny piazzas, full of marble statues and expectant cab-drivers. Other streets are longer, and go wander-
ing around, up hill and down, as if they ing around, up hill and down, as if they
were looking for something and couldn't find it. The Via Cavour, which is the main business street, comes in at the
Porto Camollia, wiggles all through the orto Camollia, wiggles all through the
town like a gigantic serpent, and disappears through the Porto Romano. You would be very much amused at
the street-watering system employed in the street-watering system employed in
Siena. It is very primitive. It conSists of a man and a watering-can. He a few stones along the way in a sort of wavy line, with large, dry spots, beTween the scallops.
The only level patch in Siena is the public park, and that has an artificial
look, as if it had been filled in and levelled off for the convenience of promenaders. Adjoining this is the Fort,
which was once strongly fortified, but is now a combination of barracks and pleasis a perfectly enchanting view of the country and the mountains. People
throng there in the evening to see the
sunset the same, as they go to the Pincian Hill in Rome
One day 1 went out on a kodak hunt
or white oxen.' As soon as I turned into the Via Cavour I saw some coming
along the street. But the houses were high and the street gloomy, so 1 trailed saw a place where there was a bit ol sunshine, and then I dashed ahead and
took a snap-shot of the oxen as they took a snap-shot of the oxen as they
stepped into the light. I followed them
to the Camollis to the Camollia Gate, and just outside
of it there was an ox market in a big of it there was an ox market in a big
field. The roads were white with caravans of oxen trailing up the hills to this held. It was a great sight. Hundreds ogether, their mammoth horns towering up like a forest of spires, and glittering
in the sunlight like polished silver. They have a queer custom in Siena of
hanging meal-bags on the heads of the horses and donkeys. The bags are very
large, and made of netted rope. They are filled with green grass, and when the
bags are empty they are refilled from a Peserve stock carried on the wagon. It looks very queer to see the horses and
donkeys trotting along all day with a donkeys trotting along all day wnoses.
greenn pasture hanging from their no They seem to eat and work at ine the city is inspected and weighed
Eates by the customs officials.
Kopore I came to Siena I had heard of i. Catherine, and had seen millions of hor in the art galleries, Wr...lat of her in connection But this is her native
Inan. I have read a good deal about $-5= \pm$ $5-=$
the crucifix she wore. She was a ary to to a special service and a procession
wonderful woman long path up to the church was car wonderful woman, full of zeal, and energy, and enthusiasm. She had tre-
mendous influence in political affairs, and her advice was sought by kings and popes. She preached to thousands of people, and during the plague is said to have performed many miracles.
She died in Rome at the age of thirly three. Usually, in the age of thirtywere buried where they happened to die,
but St. Catherine but St. Catherine was so celebrated that
there was a great fight there was a great fight over the posses-
sion of her body. The Sienese sion of her body. The Sienese got her silk - embroidered bag. Every year, on peted with rose leaves, and in thas church
itself there was a marvellous rug which stretched from the entrance door to the
altar, made entirely altar, made entirely of the leaves of
flowers. The design was very compl llowers. The design was very compli-
cated, full of church symbols, such as
anchors anchors, crosses, etc., and the border was very elaborate. It was a work of art, but very transitory-a little breeze
would have swept it all away in a minwould have swept it all away in a min-
ute; yet it must' have taken the patient monks hours and hours to make it.
The longest The longest drive we took was to San
Gemignano, said to be the oldest me emignano, said to be the oldest me


The Old London Sidewalk Artist-Pictures in Chalk.
the sixth of May, there is a religious summit of a hill, and was a long, steady, is exslibited. The rest of her body was first caught sight of the town away up
ind divided up and distributed around among on the crest of the hill, silhouetted
the different churches in various parts of against the sky, it looked the different churches in various parts of against the sky, it looked exactly like an
the world.
old etching. There were high, square The great yearly event in Siena is the towers of varying height, silhouetted Palio. No person knows its origin, but against big, billowy, white clouds, and or over two hundred years it has been below that there was a smudgy mass of
celebrated every year on the Palazo roofs and rocks, and the dark outline of Communale. It is a local horse race, the city wall. But it was rather amus and the Palio is the banner won by the ing when we finally reached the gate of winner. These banners are works of the oldest medieval town in Italy to see
art, and every year the design is differ- this familiar sign in English staring art, and every year the design is differ- this familiar sign in English staring a
ent. The horses that run in the race us in big letters from the wall: are ordinary work horses, and are ridden "Tea-room and Garage." bare-back. Each contrada (ward) of the We tried the tea later, but I think it city has a horse in the race. Before the was, made of hay.
Palio is run, each horse is taken into Palio is run, each horse is taken into The town itself is very interesting, all
the church of the special contrada it rep- stone, of course, and very much huddled


White Oxen in Siena.
resents and is bessed
Then there is a grand pa
the most gorgeous and the most gorgeous and expensive which
dieval costumes are wan race, the winning horse is taken again to the church and hlessed and spronkled with
holy water. and the Palio of victory is deposited there for safe-keeping.
If I am anywhere near siena in August. I am going to see the Palio if 1 have tid le much more uncomfortalile than third-
class railroad travelline ill Italy in sumanc. All the boys from six to thirteen have There are a preat many l,wautiful drives it. They have the same disease in Can-
about Siena. The adjacent hills are ada, but there they call it the stampsprinkled with momasteric.s, churches, and collecting fever. You probably had it ald ruins. One lay we drove to the at the age of twelve or so. Everywhere
old
old
ing the "Frankubolli" (stamps). Even in the cathedral we did not escape. In ract, that was where we were first at
tacked. We gave three stamps to boys, and the result was a fight for possession on the churcly steps. Ther is tremendous rivalry between the colful boys are very unpopular with the others. I could write pages more about Siena. but there isn't any room, so-
GAURA.
Goodbye.

## Hope's Quiet Hour.

The Glory of Love. Father, I will that they also,' whom I am; that they may behold My glory which Thou hast given Me: for Tho
lovedst Me before the foundation of the lovedst Me before the found
world.-St. John xvii.: 24 . In the wonderful prayer of Christ, ut
tered immediately before the tered immediately before the agony in
Gethsemane, His request for Himself was that He might receive glory from the
Father. "Father," He cried, "the hour is come; glorify Thy Son. . O, Father,
glorify Thou Me with Thine own tell glorify Thou Me with Thine own sel with the glory which ${ }^{1}$ had with The
before the world was." before the world was." Then He prayed
for the disciples-for all who should believe on Him-that they might be with Him and behold His glory. What was
this "Elory" which meant so much to
One who cared One Who "eared Mithe or mo much to
Mothing for earthly glory ${ }^{2}$ The glory which the
Father had given His Son betore the world was created, is declared in,our text
to be the glory of love, the glory perfect fellowship.
I have smatched time in the midst of the preparations for a a great event i
write this Quiet Hour. Do I need to tell you what is a "great event"? Two young people, who love each other, will soon be joined together by God Himsel
in the. holy mystery of marriage neath ant the pleasent sttr of prepari tion, there is a glory of love which makes a wedding a great event-great even in the eyes of God, and giving joy
to the angels. 1 -as Christ hase told us-there is joy in the hearts of angels when one sinner on this oarth returns to his. Father's love, certainly there must bo rejoicing in heaven when two pure young
lives meet and mingle. When the glory of love pours its radiance on the road belore them. they can go forward hand
in-hand, with the trustful conade in-hand, with the trustful conAdence of will guide and protect them.
When God stooped down to crown the happiness of Adam in Eden, He gave hin arst earthly love-atory, how Tve draws down her husband instead of helping him to climb nearer to heaven. There is no into a curse. When JESUS the King was drawn by
Love from His quiet home to inspire and Love from His quiet home to inspire and
bless the world, He went first to a marriage feast and there "'manifiested forth His glory"-the glory of His love. A true marriage is a lovely and solemn
occasion, the earthly shadow of the mar-riage-feast of Christ, Who will one day
come to claim Hia Bride, the Ohurch. Dare any Christian kneel and ask the blessing of God on his marriage if it ts not shining with the glory of lover such
a lovelesg wedding must bring certain misery to those who venture, in the Presence of the searcher of hearts, to take lightly the
them together. But when-as in Cana-the honored
Guest at the wedding-least is the King of Love, when the best place in the heart of the bride and groom is reserved for
Him, and when they rest foyfully in the Him, and when they rest joytully in th
love of each other, then a wedding crowned with glory such as woding is aire can buy with his gold. Then we
who love the young people-and "all the who love the young people-and "all the
world loves a lover""-are not afraid to world
sing :
. Perfect Love, all human thought transcending,
Lowly we kneel in prayer before Thy

That theirs may be the love which know Whom thou ending.

But the wedding excitement will no last all through lite. Trials of various
kinds. will test the tove which is the slory, not only of the betrothal and of
the narriageday, but of the the mrarriage-day, but of the whole life.
Real love should shine out more grandly Real love should shine out more grandly
in derk hours, when the light of othr earthly happiness is clouded for a time. When our Lord appealed so confidently to
Bis Father for the glory of eternal felHis Father for the glory of eternal fel
lowship, it was when He was facing th agony and shame which the next day ous. it will draw into the home brigh angels of faith, hope, and patient enaur pain nor death
As we grow death." how little happiness can be extracted trom earthly success. But love grows
deareer and more precious all the way. How sweet is the love of little children! day when the little ones pressed against
the heart of the Perfect Man. Unless He loved the children, there would have One of the most glorious
earthis life was when He
. Took the brown little babes in the White hands of the Saviour of men; caressed them,
put His face down to theirs put their hands to His neck, and so With bebessed them. hands hid in His hair.,

I don't know who wrote those lines, on .they can hardly fall to go straight od's little children.
Then there is the love of the penitent, orgiven sinner. That also is a glorious
reensure, dear to the heart of God. Do reasure. dear to the heart of God. Do
wnow by our own experience the joy hose wh love
has been forgiven us
I hiave heard people find fault with the story of the Prodigal Son, on the ground easting was given to the one who had who had worked failthully for years, did aot share in the rejoicing. Why did he
not share in it? Was he not also a not share in it? Was he not also a
son? Did not his father come out and mplore him to take his rightiful place at
the feast? He was a prodigal, too but the feast ? He was a prodigal, too, but
he had not found it out. He had gone he had not found it out. He had gone
ar away from the glory of fellowship with his father, so that he could not on for rejoicing over his brother's reurn. If we know nothing of the almost linding glory of the Father's love tobecause we have not yet discovered be wh sinfulness and need of pardon. Our rather is loving us all the time. How nany limes a day do we slight that
narvellous love? We are working and lanning eagerly, and day slips swiftly atter day, with so little remembrance of che Love that is always over us like a
banner. We are delighted with words t praise from men and women, but forket to watch for God's approval. The
prodigal was almost blinded by the dazling glory of his father's love, knowing
how undeserving of it he was. If we approach God in his spirit of penitent humility, we also shall understand the
foy of the Father's welcome. oy of the Father's welcome.
Then there is the glory of love, as it
shines out in earthly fellowship. This is the natural result of penitence before God. We are all sinners, and handing
 ower we bow before Him, the less likely
we are to look down proudy on anyone we are to look down proudly on anyone
else. Remembering how deserving of ready to find fault with other sinners. As for pride of birth and station, it will penitent heart. Those who count it glory to walk humbly in the steps of
One Who chose to be born in to spend nearty the whole of His earthly Mre as a poor working Man, and to di
on a cross, cannot "condescend" to me of low estate-heing already on a level
with them. When we hear of a man of When we hear of a man o
culture and refinement choosing to cross the "rean as a sterage passenger, we
are not surprined. Neither are we sur-
arised when

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## The Ingle Nook.

##    What Shall We Do, Then Giranted that the average Canadian  

 sreat social question. And now, may we pause to repeat.is met me an amusing story \#hich I must tell youl, and which will boo toardina W in wited with one







of all true education is repetition,
restalozi
says that the secret of all true education is
rozi
repetition, Pestalozzi says that the secret of all
tur education is repetition,"- this
the chant droning out incessantly from the chant of the monotone, until interrupted bv uproarious merriment frem the
lonq-suffering pairs in the next rooms. lonq-suffering pairs in the next rooms.
Well there was some truth in the observation of the old educator. wasn't
there? Quite often things that come to us onlv once fail to impress, and so, hefore voing further, may we stop to
"repeat": -Do, if you have anything to
do with the care of children. remember the full meaning of the word "educatien, velont the whole child, physically, mentally, and morally
"What shall we do, then ?"-The ques-
tion is asked and instantly the thoughts tion is asked and instantly the thoughts
of most of those who hear it flv to the of most of those who hear it fiv to the
schools.- the lack of equipment, the
shortcomings of the teacher.-above all schools.-the lack of equipment,
shortcomings of the teacher.-above all
the shortcoraings of the teacher! Well, sometimes the teacher is to
blame, and usually the equipment is inadequate, but to focus the attention upon
apher is to see about as clearly as the horse whose eyes are covered with "blinds."
"The absolute dependence of intelligent "The absolute dependence of intelligent mothers upo," said an eminent educator.
be deppored,
and he spoke truth. and he spoke truth.
"Education" -the development
".WOL" "WHOLE", child. What mother. remembering this, can connect education with
books only, or shift the burden of the education of her child completely off on
to the school-teacher? What mother, remembering this, can fail to see that
real education is carried on most of all in the home, or fail to realize that one uppon the part of a parent, or one unfair
upentence from his or her lips, may do more towards the real undoing of a
child-of its "education' I-than the most conscientious teacher can remedy in
months-if ever.-And yet there ar parents who, while giving themselves up
to any license of speech or conduct at to any license of speech or teacher absolute selif -control, absolute fairness, absolut
wisdom. Surely what is necessary fo the one should be necessary for the other also. As Victor fugo of a child, a
forming the character of
mother is of more value than all the mother is of more value than all th
teachers in the world."

To lay in the child the foundation from
which shall develop a healthy man and a man of fine character-this. then, should
be the first and best aim of either parent or teacher, and upon the mother in par-
ticular. during earliest childhood, does ticular. during earliest chichood, doos
the responsibility rest. $\begin{gathered}\text { During those } \\ \text { vears at least-the most plastic years of }\end{gathered}$ all-the child is left to her almost afsolutplv. He is with her moser. His
time. He is dependeft upon her. He
strongest impressions are derived from her and from the environment she creates.
She is more than his mother: she is his If, then, the house is dirty and the
mother "sloppy," if she gives way to fits of temper, forgetting the dignity thai
all mothers should maintain before their
children if the language and sentiments exoressed in the home are coarse an low. what more natural than that the
child shall grow up coarse and unrefined, escape,-but as by miracle.
As the vears go on, the father hecomes As the years go on, the father honality.
more and more an important person hero to He may or may not become a
the boy; he is bound to exert an influence The him one way or another.
The conversations in the home. too,
tuean ever more and more. if the boy hears ever more and more. dealings, of getting ahead of the other fellow," and
parallel sentiments. either one of two
on hings happens: he learns to despise
farents. or resolves to do likewise when he grows up.
Take a home of the opposite type for
nother example: Here, no matter how Mother example: Here, no the fouse and its furhishings may be, everything is reasonably
lean, and colorinys (which, it is claimed, lean, and colorings (which, it is claima, exercise great influence, psyc. There are
are pleasing and harmonious.
platis in the windows, end good pictures prints of good ones (Perry, Brown
 pressed are never mean and low.-These
are the infuences are the influences surrounding the child
from babyhood up,-what more naturd then, than that he wewh more natural, of manner and fair in conduct, a ceredit True pa he may and to his community ?-
Trit, but again, as by

So much for "unconscious influence
Now, Now, turn to the influences which may
be exercised upon the child, deliberately,
in the home In the first piace, his physical well-
being must being must receive attention, not because
it is most important, but because of it is most important, but because of
that mysterious interdependence which
exists between mind and body. exists between mind and body. If the
body is weak it is harder for the mind
to to be strong, although many transcendent
personalities have been able to rise triurnphantly beyond infirmity and disease.
And so it is the duty of the homefolk to provide conditions for healthful living. Flood the house with pure air night
and day-sleeplessness and depression are often due to nothing but the lack of it-
and encourage the children to spend as much time as possible out of doors.
Throw up the blinds Throw up the blinds and let in the light;
if there are carpets and upholstery that may fade, get rid of them rather than of the sunshine. See to it that the boys
and girls have enough exercise and and girls have enough exercise and
enough rest. Give them good, nourishenough rest. Give them good, nourish-
ing food, and insist that they eat slowIv, masticating each bite, and swallow-
ing it before taking a sup of ligud ing it before taking a sup of liguid.
Don't let the children run about with Don't let the children run about with
wet feea. See to their teeth. Do not let them read in a poor or over-bright
light. Insist upon their sitting and standing erectly,--do not let them become
round-shouldered,-and watch out for adenoids, short-sightedness, curvature of
the spine, or the spine, or other affections. Don"t let
things "run" in case suspicious sympthings "run" in case suspicious symp become deal or weak-lunged because of adenoids; many another has been dubbed
stupid at school when he was merely stupid at school when he was merg.
short-sighted,-and so the story. goes. If you have a suspicion of any ailment talk to a competent physician about it. You can't afford to let your child grow
up handicapped. This is an age of fierce up handicapped. This is an age of fierce
competition, even. in the gaining of a comportable living. The more fit the
child the surer his chances of being able child the surer his chances of being able
to take his place, some day, in the big, busy, jostling world
A particularly delicate child, of course,
needs especial attention, but weak chilt dren are by no means hopeless, either mentally or physically, Sir Isaac New
ton and Victor Hugo, were very sickly as children; so were Adam Smith, and Flaxman the sculptor, a
So much for the moral and physical Next comes the training of the intellect,
nor, indeed, is this any small matter nor, indeed, is this any small mul."
were it only that ""mind helps sol." this, too, then, "What shall we do?
As we saw in last week's article, Dr Sides, Prof. Werner, and Mrs. Stoner
who have accomplished such wonderfu intellectual advancement in their children, all held that early training along intel lectual lines, carried ons been greatly responsible for that ad-vancement.,-"early" and steady training you will note, begun long before the
yildren were of school age. children were of school age.
Don't keep the little ones too long a Don't keep the little ones too wing aic
bokss but give them books with pic
tures. Teach them to read as early a tures. Teach them to read as early al
they will take it, and teach them to cal culate with stones and apples and toy
At the first sign of weariness or lack At the first sign of weariness or the littil
interest. however, desist. Let then when you have one rest and play, then when you hay
thought out some new and more inter
som esting way of presenting the subject, eally
again. So long as the child is really
Soterested. so long as he is not kept again. so so long as he is not kep
interested. so
thinking until his brain fags, so long as thinking until his brain fags, so long as
he has plenty of time for play and sleep,
the bit of mental exercise will not hurt the bit of mental exercise will not hurt
him. Three or four fiften - minute les sons-"play-lessons"-every day, will wort
wonders. "Any mother who knows how
and write," says the educator, Elizabeth
childe, "can, is she will. double the value of her child's education."

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three pairs for

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is yarn that costs us an average of
74 . is yarn that costs us an average of
74 c a pound. We could buy com-
mon yarn for 32 c ; but hose made mon yarn for 32c; but hose made
from it wouldn't last. Our guarantee covers every Our inspection department, where each pair is ezamined, costs $\$ 60,000$ a year. But we cannot afford to each pair is right.

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Write for speciull terms to-dayy
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## enasco THE TRINIDAD-LAKE-ASPHALT Ready Roofing Trinidad Lake asphalt

[^0] Itite us for the Ciood Roof (iuide Book and samples The Barber Asphalt Paving Companv, Philadelphi

hought we knew that condition, thought we knew what mosquitoes however, to bring a lior noxt day before two hours had paseed wis found out for a dead certainty that we ad never. anitess befores before, never ever felt mos kong. We got into the hammock: tung us through hammock and all. under them. We sat surrounded up smudges, we waved branches, we wi our red eyes, we exclaimed against the ndeniable truth that all the biting mo quitoos were females - suffragettes, pro unaware that a grilling worse than the was awaiting us, all because of our owin To make a lone story sher greenness, for in some respects we then greener than anything in well ", vast interminable forest, during a tent up. We were warned against so, but protested : "It was wainst doing there," "we must have the place airet -and so we were left to learn by e

## We learned.

in the confidence retired once more, serenu Them out" of that we could "smoke Them out" of so small a space as that. occupied by a little silk tent. pan, of course), and the mosquitoe on appeared-somewhat-then mosquitoes dis-mossuito-net, and we crept into the ral)-
bit-skin But will you believe it?-those awful demale mosquitos had not gone out at all. They had been either fainting or
feigning, and before monrise were feigning, and before moonrise were all They began to sing in chorus. With one and with one arose and swooped upon us. and with one impulse we two hapless
victims began to-bang ever banged mossquitoes for four mortal hours or more, you will know what that
means. But banging was of that fell ten arose in vengeance, so at midnight drear I put on a hat and big automobile veil and lay down again-to
rest. Tannis would not follow rest. Tannis would not follow suit. declared, whereupon $I$ ith a hat on," she
gest that she gestared, that shereupon I ventured to sug-
at present. Well, my veil "worked", all rìght, but
Tannis kept on working, too banging away, hour in, hour out, while I I kept quite still, hoping to drop off asleep in spite of the commotion. Tannis thought
I was asleep, but I wasn't. At about three a. m., I heard her say -a dreadful word!-Not a very wicked
word, you know, still a dreadful wordYou could have no idea of how fumby it was unless you knew Tannis, Tamnis the purist, Tannis who never even would
say a slang word, Tannis, describe say a slang word, Tannis, described t
me once by an enthusiastic young me once by an enthusiastic yoùng man
as "the most, cultured young lady he
had ever met." Of course, I "snickered," and the murlaughing, there in the heart of the woods
at three ecll to accompaniment of the songs of ten million mosquitoes and the snores from sul rounding tents. When I could get my
breath I gasped, ",
was thinker mind, Tannis, was thinking it."
Every year about this time I hold a sort of anniversary of the event. and
laugh to myself. This time I have
passed it on.

Hill said recently about note what Dr barrels, pools, etc., with kerosene, to pre
vent mosquitoes? Better for, for all we know, this rear we may and June roses and mosquitospberries September.
[Note.-Since writing mosquitoes all JUNII. become hot as Tophet is popularly supposed to be, and the mosquitoes may be out in Pull force to give "point". to imy
story:- (), Canada :-oh ! Canada of multiple changes !

You outd give me any information on
poelled ceilings, the material used, and panaled ceilings, the
how it is treated. Lanark Co., Ont.
calings with stucco panels are not otten seen now except in public buildings. The tavorite ceiling is "beamed," or pan-
ellod if liked better, with wood stained elled itch the other woodwork, the backto match the
ground being plaster. The beems, of course, are hollow-to save both weight
When a beamed effect is and expense. When a beamed effect is
chosen, sometimes but two beams are unosen, dividing the ceiling into thirds; sometimes several are preferred. It is
all a matter of taste. all a matter of taste
A BUDGET OF QuEStions.
Dear Junia, - Here I come seeking Dear Junia, -Here I come seeking for
help like many others. I have enjoyed help like many others. I have enjoyed
your paper for soome time, and have al-
ways found it helpful, so am going to ways found it helpful, so am going
trouble you with some questions also lothes? What will remove dandetion stains from
clothes? remove it ?
Till black knot on plum trees injure the fruit for eating ? Ine fruit $\begin{aligned} & \text { Is froth of cream s }\end{aligned}$
young calves?
What is the leading color for this year Are dark or light colors the more popular for this summer ?
Wellington Co., Ont. Not knowing the composition of the butter color I cannot say. Try rubbing
the stain with glycerine, leave it for the stain with glycerine, leave it for a
while, then wash out. If this does not whine, then the spot try alcohol. Stains in
remite clothes usualiy succumb if treated white clothes, usualiy succumb if treated
with "omo." or if a cupful of Javelle with "Omo," or if a cupful of Javelle
water be added to the boilerful of water water be added to the are boiled
Try alcohol for the dandelion stains. balsam pitch on any anything, then there would be no stain to remove. Scientific
American gives the following as removers
of pitch stains: benzine, benzol, or ether. All are very inflammable, and should be used out of doors where there is no fire or light.
Black knot will not injure the fruit for eating except as it deteriorates its-qual-
ity, but it will kill the trees in time if ity, but it will kill the trees in time if
not exterminated. It is better to remove the froth from
separated milk before feeding it to young Almost every color is "in" this season,
cales.
Almor Almost every color is "in" this season,
-especially, perhaps, for dresses and -especially, perhaps, for dresse and
syits, the various shades of blue
tan. Touches of cerise, burnt orange "paddy" green, and even certain shades of purple, seem to be very popular in
hats. Indeed, just now we seem to be hats. Indeed, just now we seemlo quan-
revelling in bright colors (in smal
tity) tity), and pastel shades are, for a little,
relegated to the background. It is safe io predict, however, that they will soon return to favor. Light colors and white
are always in favor for cotton dresses.

## PICKLED WALNUTS-REMOVIVG

 Dear Junia,-Can you tell me whatriocess walnuts must undergo in pickling process walnuts must undergo in pickling
in order to soften them? I have folorder to soften them? ? have and
lowed a recipe, using only young and
lender walnuts, but the pickles were something akin to bullets put through the same process.
I have used Cross \& Blackwell's pickled I have used Cross \& Blackwell's pickled
walnuts, and would like to know how
they succed in obtaining such soft, deicious pickles.
Another problem,-what shall $I$ do to
iney Another problem, - what shat remove the paint
vainted dresser to rem after
and what should I do the wood af
wards to prepare it for staining, as "ards to prepare it for staining, as

## II of your readers. MRS. MAC. Niterloo Co., Ont.

 (aun anyone tell if there is any especialprocess for walnut shells "rrhaps Mrs. Mac. did not succeed it
ant ing them before they were too old ally they are ready early in July. Pickle Walnuts.-Get the young nut:
prick them with a fork, then put
in a brine made up of 1 th. sult an sem
with the following: Boil vinegar and
spices in in the proportion of 1 ounce black
pepper, $\frac{1}{2}$ ounce allspice, and $\frac{1}{2}$ ounce pepper, $\frac{1}{2}$ ounce allspice, and ounce ounce
bruised ginger. Put this on hot; cover
closely, and put in closely, and put in a dry place. Ready
for use in six weeks. Tor use in six weeks.
To Remove Paint.-Method given
Scientific American. Scientific American:-Method given by
soda and quickline a paste of soda and quicklime in equal a proportions,
putting the soda into the putting the soda into the water first.
Apply with a brush to the Apply with a brush to the old paint,
leave for a few moments, then wash of
with with a brush and hot water. Finally, rinse the wood with clear water and wash off with vinegar.

## hoyal SCALLOP Dear Jean,-I

 Dear Jean,--I wonder if "Amy," ofWentworth Co., Ont., would send to the Ingle Nook her remedy for removing
freckles. I am fair and freckled, but have not come across the right prescrip-
tion yet. She asks how salts can be used as a
face wash. Don't use it at all. I had a friend who did, and it makes the skin
very dry. Your paper is a treasure I am sure to
many people,--so many useful interesting things to be found in it. I will send a very nice scallop recipe,
Perhaps it will be something new. It is very delicious for a tea. $\begin{aligned} & \text { Thanking } \\ & \text { you most kindly. } \\ & \text { KIZER. }\end{aligned}$ Kent Co., Ont. KIZER. Royal Scallop.-Six hard-boiled eggs
chopped fine, white and yolks separate Chopped fine, white and yolks separate,
1 cup boiled ham chopped fine; 1 pint creap boiled ham chopped ine, 1 pint
Cream Sauce.-One pint cream or milk (or part cream and anilk); 1 lump butter
size of egg; 2 tablespoons flour, thin with size of egg; 2 tablespoons flour, thin with water. Salt, pepper (cayenne just
pinch). Cook till creamy. Butter bak-ing-dish. Put layer of bread crumbs chopped egg, then hain, then cream sauce. Repeat till all is used, with
bread crumbs on top. Put little crumbs bread crumbs on top. Put little crumbs

of butter on top of all. | of $\begin{array}{l}\text { muterer } \\ \text { minutes. }\end{array}$ |
| :--- |

Seasonable Recipes. Orange Buns.-Take $\frac{1}{2}$ lb. flour ( 2 small
cups), $2 \frac{1}{3}$ ounces butter (about $2 \frac{1}{2}$ dessertspoons, rounded), $\frac{1}{1}$ cup sugar, 1 egg, a little milk, peel of a an orange grated. Cream the butter, sugar and egg to-
gether for four minutes, then add the flour, milk, and grated orange peel, using just enough milk to make a stiff batter. pan. Brush the buns over with the
phe white of an egg, place a piece of orange peel in the center of each, dust with Onion Porridge.-Five large Spanish onions, three pints of boiling water, one
tablespoonful of cornflour, a fittle milk, a small piece of butter, and pepper and salt to suit taste. Peel the onions
thickly; put into the boiling water with some salt, and boil them for one and a hall
to twi to two hours. When they are done, do mixed with the milk, add the butter, and then boil all for a few minutes.
Savory Steak.-Cooked in this way even a leathery piece of steak can be conplenty of good gravy. Required: Two pounds of stewing-steak, one large car
rot, three large onions, one turnip, small bunch of herbs, a strip of lemon-
rind, one ounce of dripping, salt and rind, one ounce of dripping, salt and
pepper, a little flour, one pint of stock pepper, a little flour, one pint of stock
or water. "Stewing steak" is one of the cheapest cuts of steak. Cut it into
four pieces. Wash and prepare the
veretables, and cut them in slices. Melt
veres. vegetables, and cut them in slices. Melt
the dripping in a frying-pan, roll the pieces of steak in the flour, then fry
them a good brown on both sides. Put half of the onions in a stewing jar jo
casserole, place the meat on them, the Casserole phe rest of the vegetables, the
put in the
herbs, and lemon-rind; the latter two herbs, and lemon-rind; the latter $t$ wo
should be tied in a piece of muslin. Pour in the stock, and add a seasoning of sal and pepper. put the in or on the jar
place it oven or in a sauce
pan of hot water, and let it cook gently from two to three hours. Then skim it it in the jar in which it was cooked. If flour to it. first mising it smoothly mith a litle cold water, but be sure to let
the eravy rownil after adding the thick-

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best results are obtaimed from advocate advertisements.
(The three recipes given above were
taken from a New Zealand paper, the
Otago Witness. They certainly "sound"
good enough to be worth trying.)
Rhubarb Shortcake.-Make a shortcake
eithur like layer - ake or biscuit-dough,
as preferred. Split and butter it while as preferred. Split and butter it while
hot, and spread at once with a filling made as follows: Cook for five minutes
two cups thick stewed rhubarb and one cup stoned dates, or stoned datee and
raisins mixed. Put the cake torether and serve at once with sweet creag and and serve at once with sweet cream and
sugar, or whiped cream. The rhubarb
may be used alone if liked. may be used alone if liked.
Rhubarb and Orange.-Cut tender rhuRhubarb and Orange.-Cut tender rhu-
barb in bits, and to 1 quart allow 3
and cups sugar, 3 oranges, $\frac{1}{\frac{1}{2}}$ teaspoon mace,
1 dozen oloves, a little stick cinnamon. 1 dozen oloves, a little stick cinnamon.
Wash the oranges and pare off the yellow Wash the oranges and pare off the yellow
rind thinly. Scoop the pulp into the other mixture, and add the thin yellow rind cut in bits. Add 2 tablespoons
cold water, cover the dish and bake in a hot oven. Rhubarb cooked thus keeps well. A little of it is delicious with
toast. It also makes a good tart filling. Rhubarb Marmalade.-Equal quantities of prepared rhubarb and orange pulp,
with their own weight in sugar and an extra cupful for the kettle, can be baked slowly to an excellent marinalade. Re-
duce the heat after the fruit is tender, and let -it barely simmer in the syrup.
Spice to taste, but taste will go wrong if it leaves out mace and cloves. Free the orange peel of membrane, and boil it
tender in salt water. This is to remove the bitterness. Throw into fresh water.
When cool, pare away the white inside and cook for half an hour in clear water.
Cut into fine straws with sharp, clean cut into fine straws with sharp, clean
scissors, and stir the straws well through scissors, and stir che straws well through
the fruit. Let cook till they are pre-
served through. Keep 'the pan off the stove bottom with a rack or wire shelf and thus you minimize the danger of
scorching. Stir occasionally, but only occasionally, and very, very gently, When a drop hardened on a plate shows
the right consistency, take it from oven, cool till milkwarm, then pack in small
jars. They may have paraffin on top, or oiled paper.-Boston Cooking School.
Brown Pudding (enough for 10 people). Brown Pudding (enough for 10 people).--
Three cups soaked bread crusts,
1 Three cups soaked bread crusts, 1 cup
flour, 1 good half-cup sugar, 1 good halfcup syrup (blackstrap), i cup suet or a
half-cup drippings (suet preferred), 1 cup raisins and 1 cup currants, or 2 cups of
raisins, + cup milk if necessary, 3 teaspoonfuls baking powder, $\frac{1}{1}$ teaspoonful salt, 古 teaspoonful each nutmeg and cin-
namon grated. Grease pan. Soak namon grated. Grease pan. Soak
bread crusts a few minutes in cold water, and squeeze out dry in a cloth. Add
the other materials. Mix and steam three hours.
Sauce.-One large tablespoonful flour, 1 cup sugar, 1 cubic inch butter, 1 table-
spoonful water, 1 teaspoonful salt. Put on stove in an iron pan and stir till
caramel -brown, then pour in boiling caramel - brown, then pour in boiling
water until thinned to desired conBoston Baked Beans (in quantity).-
Twelve cups beans, 6 cups baccon cut Twelve cups beans, 6 cups bacon cut fine,
say half-inch squares, 2 scant cups sugar, say hali-inch squares, 2 scant cups sugar,
3 dessertspoonfuls dry mustard, 4 tea-
spoonfuls salt (rounded), 2 teaspoons pepper (rounded). Pick over and soak
the beans over night. Strain off the surplus water; put fresh on and boil 20 minutes or so; pour water off again and boil again till the skins turn brown on
exposure to the air. Now add the bacon, sugar, etc, and bake four hours
or longer. In baking, add water as

The Scrap Bag
$\qquad$ Whlon making stock which is to be
 The top and when coll will torm a close covering, which will protect the stock trom air. Put in a cool place and the
stock will keep ns long as the covering is not broken, losesened, or spoiled.
CUTTING UP Pliveapless.
This is the way to cut up pineapples in the country where they grow. Cut ait the top stand the apple on the Catle and. with a large knite, cut it into
ywarters.
Take one
holding the rough outside next the palm of the hand, and, with a shart-pointed knife, cut out small pieces. When the the knife, reached, cut, with the point of Sugar eat between the cyes. sugar each laycr of pineapple. This is much easier than peeling a pineapple. selected. to whip cream. Use cream 24 hours old. Set it on ice, or wrap the bottle containing it in When containing cold water and salt. White of cold, whip. Some add the it whip better. Here, also, is a Bosto Cooking School wrinkle:
"It helps much in holding up meringue to beat cold water into it; a teaspoonful for each egg-white. Add the water as beating begins, with a pinch of salt Have the whites cold, and beat until they stick to an inverted dish, then add gradually powdered sugar, using six tablespoonfuls for each two whites, and three drops of clear lemon juice for each egg. Beat very smooth, and spread and harden at ouce. Allowing a meringue to stand before coaking is the root of more than half the trouble. Meringue made thus remains crisp under the fruit-cover until eaten, provided, of course, the eating is immediate.'
COVERING COMFORTERAS
Enclose the cotton batting in mosquito-
netting, tacking it here and there. Slip netting, tacking it here and there. Slip
the comforter thus made into the the comforter thus made into the out-
side cover and tack in place. When the cover is soiled, you will find it very easy o rip open one end and remove the in-
side. A good idea for keeping comen side. A good idea for keeping comfort-
ers clean is to baste a band of cheese cloth neatly over the edge that comes next to the breath of the sleepers. This ay be frequently removed and laundered. Use to banish roaches.
Use equal parts powdered borax and
pulverized moth - balls. Remove thing eatable, and sprinkle this powder about wherever the roaches usually run. - canning beef suet. Grind fresh beef suet in the food-
chopper and stuff it firmly into sterilized sealt-jars. Fightly. Ke full as possible and he cellar New RECIPE FOR A washing mixTake 2 lbs. of the best brown soap,
cut it up, and put into a clean pot, adding one quart of clear soft water;
set it over the fire and melt it oughly, occasionally stirring it up from stir in one tablespoonful of teal whitewine vinegar, two large tablespoonfuls of
hartshorn spirits, and 7 large tablespoonfuls of spirits of turpentine. Having stirred the ingredients well together, put the mixture immediately into a stone jar horn cover it immediately, lest the harts-
horn should evaporate. Keep it always
 wash, nearly fill a six- or eight-gallon
tub with soft water, as hot as you can bear your hand in, and stir in two large tablespoonfuls of the above mixture. Puty
in as many white clothes will cover; let them clothes as the water noving them about in about an hour, sionally. It woul only be necessary to
rub with your hands such parts
ery diuty, very diwy; for instance, the inside of
shirt -collars and waistbands, etc.; the
common dirt will ommon dirt will soak out by means of
he mixture. the mixture. Wring the clothes out of
the suds and wrinse them well through two cold waters. Next put into a wash-
kettle sufficient water to boil the clothes it must be cold at first), and add to
it two more tablespoonfuls of the mix ure; put in the clothes after the mixture is well stirred into the water, and
boil them half an hour, at tne utmostnot more; then take them out and throw them into a tub of cold water, rinse
them well through this, and, lastly, put them into a second tub of rinsing water.
slightly blued with the indigo bag. Be slightly blued with the indigo bag. Be
very careful to rinse them in two cold waters, out of the first suds, and after the boiling; then wring them and hang

## TheBeaverCircle 

The Garden Competition.


Senior Beavers' Letter Box
$\qquad$ Dear Puck and Beavers,-This is the
second letter I have written to your
circle, but the first one wasn't printed circle, but the first one wasn't printed
so I thought I would try again. They always say to "try, try again." They
I am thirteen years of age, and I am
in the senior fourth in the senior fourth book at school. I
have a mile and a half to walk to
school. Our teacher's name is Miss McLellan. I like her very well.. Ny
father has taken "The Farmer's Advocate" Por many years, and he likes it
fine I don't think he would do with-
out it My letter is getting long but I want
to tell you one more thing to tell you one more thing. We have
a little pup ahout three months old ; he
is a nice little thing is a nice little thing, and I wondpred if
you would tell me a nice name for it.
I hope this. escapes the w. p. b. Wishing the Beavers everv success. Brown's Corners, Ont. Can the Beavers suggest anv nice
names for a dog? What about Bruno,
Mack, Pat, Caesar. Captain Mack, Pat, Caesar, Captain, Major,
Ponto, or Frisk ? Dear Puck and Reavers, -At last I
have taken have taken up courage to write. My
Pather has taken "The Farmer's Advocata" ever since I can remember. .
I live on a farm of about 280 acres, a good part of which are woods. I go
to the Model School, Charlottetown, P. E. I.. five miles from our place, and go
every day Now I will tell you about a wasp's up in the Avenue, and Selma found a large wasps' nest under a little spruce
tree. One day we went up to poke tree. I poked at it most, and one stung me on the leg. Now as my letter is me on the leg. will close, wishing the
getting long I wise
Beavers every success. Beavers every success. $\begin{gathered}\text { Good-bye. } \\ \text { LOIS OWEN }\end{gathered}$
$\qquad$
$\qquad$ have ever written to the Beaver Circle, Although I was a constant reader up to
about two or three years ago, when more throuch neglect than anything else,
we delayed renewing our subscription, so I completely lost track of the doings in this interesting corner. I was glad to find, upon reading it
once more, that literature had been in-
troduced troduced. I am fond of reading and
have quite a fow books, and I think asked what honk $I$ lifyd best $I$ would
say "Ben Hur," and if any of the
Beavers Bavers who are fond of reading have
not got it, then let the next book they buy be "Ben Hur." It is a book one
may read three or four times, and yet
not tire not tirp of it. Another very good one is Sy favorite author is Jules Verne.
His works are both amusing and instructive, and their flavor of science makes
them very interasting. I can't understand why so many boys have read quite a few of them, and they
just seem to be about the same yarn. over and over again. His Heroes are
nearly always good noble boys and very nearly always good noble boys and very
good examples in some respects, but his gond exampes in some respers to me
works on a whole do not seem to
to be particularly interesting. But the only class of books I really detest is
novels. I never read but one novel
and that was and will be the last. never could digest those sentimental
love yarns, thouph from all appearance one soorn won't be able to get mue
elso. Most of the Sunlay Schoo
eltaries are made up of such trash. think Dr. Talmage hit the nail on the
head when he said that modern litera ture was something like milk: some of it is nothing but chalk and water.

$\qquad$


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try Bone Meal, Harab Oyster Shell, Harab Crystal Grit Harab Poultry Charcoal, Harab Alfalfa Meal, Harab Seeds, Grains and other standard feeds. Write for poultry food folder, showing the uses
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tumy and eee those well-bred fellows with high oficial backing, that you can buy well worth tro
in they from $\frac{\text { D. C. Flatt \& SON, R.R. N }}{\text { Alexandra Hospital, Montrea }}$ - FApplicant Contagious Diseases

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cates granted Intiate
the Montreal General. Rov
he Montreal General. Royrol
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Toronto, by which our nurs
rec received at thase hospitel), it
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| M. FalrLeY, |  |
| :--- | :--- |
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 been wanting to get the itit history of
Edison and $F$ ranklin, but $I I$ dont thow

 I might get them, and will you think
In me presumptive i! I suggest that we
me have a debate or something ? I think
it helps to make the circle interesting
So So. hoping the circle every suceces, I
will close. J. CLARKSON ROBSON. Milton West, Ont. (Age 14.)
This is a very interesting letter,
Clarkson.-Yes, we will have a debate This is a very interesting letter,
Clarkson.- Yes. we will have a debate
some day. I am sorry I cannot tell. you where to find "lives" of Edison and
Franklin other than in "Who's who". Franklin other than in "Who's who"
and the encyclopaedias, but perhans you and the encyclopaedias, but perhaps yous
have these in your public libraray.
Do you know, Clarkson, your Do you know. Clarkson, your letter
very nearly went into the w.-p. b. be-
cause it was written on both sides. cause it was written on both sides.
Only the fact that it was more interestOnly the fact that it was more interest-
ing than most of the letters received
saved it.

Dear Beavers,-As my first letter to
the Beaver Circle was in print, I the Beaver Circle was in print, I
thought I would write again. We have
taken "The Farmer's Adyocete", number of years. and I enjoy reading the Beaver Circle verv much. I live on
a. farm ahout four miles from Ridgea. farm ahout four miles from Ridge-
town. I have to held do the chores.
My chores are to feed the cattle and calvas
I have a little puppy, his name is Bob.
I go to school every I go to school every day and like it
fine. I am in the third book and am
going to try for the Ine. I am in the third book and am
going to try for the fourth at summer
holidavs. holidavs. Our teacher's name is Miss
Handv. and we like her fine. In the summer I have to stay home and help
on the farm sometimes. Well on the farm sometimes. Well Puck
there are many letters besides mine so
I will close, wishing I will close, wishing the Reaver Circle
success.
HERBERT CAMPBELL.


Dear Puck and Reavers,-I have for a
long tinie enioyed the letters written by
boys long tine enioyed the letters written by
boys and girls. The letters are most
interesting, and I think that most of interesting, and I think that most of
them are clever writers.
I am going to school every day now, I am going to school every day now,
and maybe I shall try for the entrance,
We have a nice teacher, and on Friday
afternoons we have oral composition or afternoons we have oral composition or
dehates. One day we had "Resolved
that a good horse is betder than and that a good horse is better than an
automobile." It was our first one, and
we all thought it splendid. I am enwe all thought it splendid. I am on-
closing a short sketch of the life of
lobert Burns, one of my lavorite Robert Burns, one of my favorite
authora. $\begin{aligned} & \text { Will one of the Beavers correspond } \\ & \text { with me? }\end{aligned}$
$\qquad$ Few Poets have ever gained so strong
a hold upon the popular heart as this celebrated bard of Scotland, the anniver-
sary of whose birth is still commemor sary of whose birth is still commemor-
ated in his native land and by his
fellow fellow countrymen throughout the by wild.
Burns was born in the town of Ayr, January 20th, 1759 , and we often hear
him spoken of as '"Ayrshire's peasant poet." Has father was a plain peasant
who battled with the misfortunes of life,
and and often when Robert would be plough-
ing he would stop and make poetry
about the surrounding scenery ta
a
a
y
th
n

Dumiries : another appropiriate monumen
$\qquad$ JESSIE A. FRASER.
(Age 12, Book III.) Williamstoun, ent. R. M. D.

Riddles.

```
What is it that has one eye and can
```

see ? Ans. - A needla
picked was going through the field,
was something good
picked up something good to eat;
was neither flesh, skin nor bone, and
kept it
kept it till it stood alone. Ans.-A
egg.-Sent by Harold Elsely.
Why should a horse not be hungry on
its journey? Ans.-Because it has
bit in its mouth.- - Sent by Ross Wether
Junior Beavers' Letter Box
near Puck and Beavers,-I thought
would write you a little letter, as
have never written to you before,
have never written to you before, My My
big brother has taken "The Farmer's
big brother has taken "The Farmer's
Advocate" for over a year. I like read-
Advocate" for over a year. I like read-
ing the little letters very much. I am
six years old, and I can readh
six years old, and I I can read them.
so to school in the summer, but
go
go to school in the summere, but I don't
go very much in the winter. We have
go very much in the winter. We have
the 'phone in, and I often talk to my
nittle
the playmate, Florence Parker. I hav
three dolls and a dog which Sarta. Claus
brought me. I have also a little
kitten. He often plays with me
kitten. He often plays with me. As
my letter is getting long I will close
my letter is getting long I will clos
for this time. ETHEL C. EWING.
Rosemont,
Rosemont, Ont. $\begin{gathered}\text { ETHEL C. EWI } \\ \text { (Age 6, Sr. }\end{gathered}$
Dear Puck and Beavers,-This is my
second letter to
second letter to the circle. My father
put up two new barns last summer.
One is for a cattle barn, and the other
is to be used fortle a barn, and the other
have barn. We also
heavy wind, and one man had two had a
blown down
windmill blown we had the top of ou
father and I went to England, and m .
saw Drake's and
saw Drake's and Raleigh's and several
other monuments. I was also
the tor, of the Eddystone lighthouse to
came home oo the biggest boast then
afloat. 11 saw other large guan boats.
We had awful roads here this
We had awful roads here this spring. It
took a team to pull a bugry throulh
took a team to pull a buggy through
My teacher's name is Miss East. I'm
a mile and a half from school, and a
letter is getting rather long I will close
Wallaceburg, Ont. DICK (Age COURTIS. $\begin{gathered}\text { Sr. III.) }\end{gathered}$
Dear Puck and Beavers. - 1 have not
written for a long time. I like to read
the letters and stories written by the
Beavers. I and stories written by only the
be eleven. I but soon will
can join. the Earden competition.
I will close with a verse and a riddle
.''TIS SPRING .,
"'Tis spring, 'tis spring,'
Our old robins say :
'Tis spring, 'tis spring
As round as an apple, as deep as a
up. Ans.-A well. Bye-bye.
CAMERON K. K. SMith
. Welland,
Dear Puck and Beavers,--This is my
year, and Farmer's likp Advocate", a have hery much. I have
three sisters and four bris.
mise sisters and four brothers. I have
my sister are going to school. I and
to go to school
to go to school, but, on account of like
smallpox in our neighboring vill
smallpox in our neighboring village,
Heidelberg, we were vaccinated, and were
heidelberg, we were vaccinated, and were
home for a long time.
I have a picture drawn with ink and
I have a picture drawn with ink and
brush, which I send yow in this. It rep-
resents a small maple grove. I hope
$\qquad$
Honor Roll : - Ross Wetherall, Eileen
Brown, Hilda Minka.
Riddles.
What is it that has one eye and can't
see? Ans. $-A$ needle.
As I was going through the field, I
picked up something good to eat; it
was neither flesh, skin nor bone, and I
kept it till it stood alone. Ans.-An
egg.-Sent by Harold Elsely.
Why should a horse not be hungry on
its journey? Ans.-EBecause it has a
bit in its mouth. -Sent by Ross Wether-
all.

Junior Beavers' Letter Box would write you a little letter, as
have never written to big brother has taken "The Farmer' six years old, letters in in can much. I an go very much in the winter. We have
the nittle playmate, Florence Parker. I have brought me. I have also a little
kiten. He often plays with me. As
 Dear Puck and Beavers,-This is my put up two nəw barns last summer
One is for a cattle barn, and the other have a chicken house in it. We had ald bavy wind, and one man had two barns windmill blown off. Three years age my IW Drake's and Raleigh's and severa
other monuments. I was also up to came home on the biggest boat then
afloat. 1 saw other large gun beal We had awful roads here this spring. It My teacher's name is Miss East. I'm letter is getting rather long I will close. Wallaceburg, Ont. (Age 9, Sr. MII.)

Dear Puck and Beavers.-I have not the letters and stories written by the I want to know whether
an join the garden competition.
I will close with a verse and a riddle "'Tis spring, 'tis spring,"
Our old robins sy,

All things are gay
up, and all the king's horses can't pull
t up.
R. No. 1., Welland, Ont. K. SMith.

Dear Puck and Beavers,--This is my n "The Farmer's Advocate" a hall it very much. I have
four brothers. I and resents a small maple grove. I hope
to see it in the paper.
St. Clements, Ont. is. Many of the subjects of Burns his day he was honored by many per:trength of manhood to overcome, the
cast a shadow on the otherwice Burns died on the 21 st of July, 179G:
his funeral was attended by many


Gity Conveniences on Your Farm--Electric Light and Running Water
Theid Brat onveniences can be yours

 send your name to

## The llome Eleciric Light \& Water Systems

 WELLAND, ONTARIO
## GUNNS





Gunns Lid.,West Toronto, Ont.
"1900" Washer —Sent FREE

Tlll send you a Washer on 30 days
Free Trial absolutely at my own expense and risk. Does not cost you a cent. My machines Must
wash clean-save labor-save time wash Icean-save labor-save time after year, could I? Write to-day
for booklet and particulars, of my
"P for booklet and particulars, of my
"Pay-me as-it-saves-you" plan. Madress me personaly, Washer
MORRIS, Manage " "900" Washer
Co., 357 Yonge St., Toronto, Can.

| COMPLEXIONAL COMPLAINTS <br> Are our specialty. We treat successfully at home pimples, blackheads, eczema, <br> permanently Moles, Warts, Red mailed free. HISCOTT INSTITUTE, Established Toronto. |
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## THE FARMER'S ADVOCATE.

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| $\substack{\text { the lawn } \\ \text { lannery. } \\ \text { laty }}$ |
| :---: | Rourd as an apple busy as a bee.

Tretiest thing you ever sia see. A clock.
Ridede, ridle,
I suppose, a eyes and never a nose. Ans.-The sieve a fanning mill. poris mamileton Harper's Corners, (Age 8, Book II.)

News of the Week Dundonald, ontario. (Age 11, Jr. III.)

Dear Puck and Beavers, -My father
has taken '"The Farmer's lately and I enjoy reading the let just so I thought I would like to join the
Beaver Circle. I I live on a like to do the chores. I I have a brother on th3 14th. My sister was six years
of February, Valentine Day My brother is eleven ysars; he has three pet cats, and one, if he sings will jump
up on his lap. This is my first letter, and I hope I. will see it in in "The Farm-
an'st
er's Advocens. lot of pigeons ; fantails, I have a ${ }^{\text {pouters, }}$ trumpeters and tumblers. Well I guess
I will close, wishing the circle every suc-
cess.
Crosshill, willile richardson.

Dear Puck and Beavers,-As I am deeply interested in reading the Beaver
Circle, I thought I would make an attempt to write. My girl chum is Hazel Dale. We have nine head of horses.
We call the youngest colt Hector. For pets we have three cats and two fogs.
we call the dogs Leeddy and Gyp, and we call the cats Flufly, Minnie, and Snowball. I am in grade I. modal. We
generally raise generaly raise a good fock of turkeys,
pure-bred bronze. I have two sisters and four brothers. Wishing the circle
every success. KATHLEEN SMITH. (Age 11, G
Green Mount,
Quebec.

Dear Puck and Beavers, -I enjoy reading your letters, so
write to your club. I go to schol
every dav. I am in the junior third every day. I am in the junior third
book. We live about a half a mile from
俍 $\begin{array}{llll}\text { our school. } & \text { My } & \text { teacher's name is Miss } \\ \text { Fraser. } & \text { I } & \text { like } & \text { her very much. My }\end{array}$ Prasee are two cats, Kitty and Fany, I
pets
have a dog; his name is Jack, and have a dog; his name is Jack, and
have a pet colt; her name is Topsy.
My My father takes The Farmer Advo-
cate", and I like to read the Beaver
Circle very much. As this is my first Circls very much. As this is my irs.
letter I think I will cose.
WILLIE Haclaren. Metcalfe P. O., Ont. $\begin{gathered}\text { WILLIE Maclaren. } \\ \text { (Age 9.) }\end{gathered}$

Dear Puck and Reavers, -1 have read your "The Farmer's Advocate" for
 every day. We have a lady teacher;
her name is Miss Morrison, from Owen
 Dunk and Prince. We have a store,
post-office and blacksmith shop and
church. We have the telephone in our church. We have the telephone eleven
house; ;it handy too. We live end.
miles from Owen Sound. I am in the second class at school. I have not seen
anybody from Hoath Head writing. As anybody from Hoath Head writing. As
this is niy first letter I will say good-

Dear Puck and Beavers,-This is my first letter to the Beaver Circle. I my like
reading the Beaver 'ircle's letters. I live on a farm. I go to school when
I am well, and like it fine. I have a mile to go. Our teacher's name is Miss
Moore. I I:ke her fine. For Pets I
have one dok, his name is Carlo. I

## have a brother and sister. brother's i name is Kat hee, and my a colt, his name is Arthur. I have a

Churlic. As wiv tetter is gridtesting long
will close with a fer ridles:
what is the difterence thet wenen
I will close with a few ridiles: China-
What is the dirterence betwen a
man and a gardoner? Ans.-One keeps


There's Room at the Top for You


What not et into alve buthes mbere

Buckeye Traction Ditcher
$\qquad$

 More men are needed for the atcith-

 ocheme, but
propoetition
consideration.

Write for Catalogwe " $T$ " to-day,
THE BUCKEYE TRACTION DITCHER CO.

Pindlay, Ohio
BUSINDSS AND
SHORTHAND


LƠNDOA,
 in sestion from Sepp. 2nd. Cataleguio




 Himan piax

 Cream Wanted

 Toronto Creamery Company, Limited Toronto, Ontario Have best results by using Rice's Pure Salt
 North American Chemical Co., Ltd. MEITION "FARMER'S ADVOCATE."

ment of the Constitution in this respect. A sensation has been created by the fact
that an anti-Democrat; and even strong that an anti-Democrat, and even strong
Conservative, M. Thorne, a Cabinet Min-
ister and ex-Speaker of the Storthing ister and ex-Speaker of the Storthing,
sent back the Grand Cross of Saint Olat sent back the Grand Cross of Saint Olaf,
the highest distinction in Norway, which the highest distinction in Norway, which
the King recently conferred upon him. He has rendered the fatherland great services, especially when Norway declared
her independence, and the dissolution of her independence, and the dissoution
the Swedish-Norwegian union took plac
In a letter to the King's secretary, Thorne thanks his majesty many times
for the great honor, adding that he sends for the great honor, adding that he sends
the decoration back, as in doing so he
believes he is merely doing his duty as an
a Norw
a
Witness. Belgium possesses the oldest newspaper
in Europe, the "Nieuwe Tydinghen,",
which was founded at Antwerp in 1605, which was founded at Antwerp in 1605,
and still appears in Flemish. France's and still appears in Flemish, France,s
first paper was the "Gazette," which ap-
peared in 1640. It still exists, but no peared in 1640. It still exists, but no
one reads it. In 1780, France had only 24 newspapers, but there were 360 ten
years later, and at the end of the Secyears later, and at the end o
ond Empire there were 1,640 .
acre farm, controlled, financed and worked acre iarn, controlled, inanced and worked
exclusively by women, who have fifty
thousand dollars invested in the scheme. They raise cattle and poultry, and many institutions run by women have promised
$\qquad$ of war than that great man who has
been calling aloud and eloguently universal service- -1 mean Lord Roberts.
But we can But we can only deal with facts as we
find them in our generation. We believe
that the more civilizing that the more civilizing factor for man-
kind is the supremacy of the Anglokind is the supremacy of the Anglo-
Saxon race: : the defence of that suprem-
acy is therefore the business of Great acy is therefore the disiness of ireat
Britain. A general disarmament is the
ideal towards which humanity is striving all over the world. But pride, prejudice
and greed, are still mighty forces, and
it is anly it is only by the spread of the higher
education that the spiritual development of mankind can be ensured by the adop-
tion of Christ's doctrines-which, alas go to the wall in all Christian countries
at the bidding of expediency. We are in at the bidding of expediency. We are in
a period of transition, and out of the a period of transition, and out of the
very danger of giving power to the peovery danger of giving power to the peo-
ple may arise the universal peace. En-
lightenment may draw closer the bonds of the brotherhood of iman, and, guided
by it, is it not possible that the work-
men of the world will anit by it, is th not posstble that the work-
men of the world will arise in their
might and cry. 'We will have no more wars' $r$ ". Sir Herbert Tree, in the "Era
Annual."

GUARDING AN EMperolr. Few Americans have any idea whatever of the extraordinary steps taken to pro-

of the extraordinary steps taken to pro-
tect foreign rulers. The following will
serve to show how the German Emperon
en

$\qquad$
$\qquad$turned back. Travellers by carriages
were examined, and allowed to proceed
if
if they
soldiers on foot. Five minutes later
more mounted men appeared; and then
what seemed to be intoxicated motor


## Gossip.

nd . Davis, Woodstock, Ont., breede shire importer of Shorthorns and Yorksows in onering a choice lot of young pizg boars ready for service, ant shire herd is especially strong at pres ent, and prices are reasonable
D. C. Flatt \& Son, breeders of Het stein cattle and Yorkshire pigs, Hamilwith enquiries and orders are swampec class of stock, and must have a litu time to raise more. They report the deyears.
A combination sale of Holsteins an signed by various breeders was held
Syracuse, N. Y., June 5th and 6 th the first day of the sale, 97 bead sold for $\$ 33,030$, an average of $\$ 340.5$ Of these, 29 cows made an average bull was $\$ 2,900$, for the yearling, Pontiac Asian. The second highest for King Pontiac Premier. The highest price for a female was $\$ 3,000$, for the five-year-old, Bloomingdale Hengerveld Palmyra. Nineteen others brought prices
ranging from $\$ 1,000$ to $\$ 2,050$. One hundred and ninety-nine head of the entry sold for $\$ 94,920$, an average of $\$ 468$.
$\qquad$
Dr. D. McEachran, Orinsby Grange Stock Farm, Ormstown, Que., writes that
his entries in Clydesdales, Holsteins and his entries in Clydesdales, Holsteins and
Ayrshires at the coming Beauharnois District Sale will be very large. He re"I have four exceptionally well-bred one Ioyal Bloom, by Montrave Ronald, 1 hands, and weighing 1,940 lbs., has a out of Linlithgow Lass, by' Sir Hugo, has a splendid stallion foal by Selborne. Miss come to weigh, over $1,800 \mathrm{lbs}$. horse foal by Scotiand's Splendour, by Scotland Yet, and Lady Edward, by $0^{\prime}$ Doom, by Everlasting. She is a beaw tiful filly, coming four. She won first
$\qquad$
$\qquad$ second at Crieff. These will form parl

Trade Topic.
Mosseau, of Essex County, states that
$\qquad$
potatoes in 1912. Where they were used
every bushel of seed produced 20 bushels
of crop. Where no fertilizer was put onl.
his potatoes were a failure. See the ad
ertisconent elsewhere in this issue.

Questions and Answers. Miscellaneous.

Effect of Salt on Clover Seeding. ground was seeded with grass seed (clover
$\qquad$
$\qquad$


## For These Reasons



FREE
Write for the Standard Booklet, giving a a full
description of " The description of " The
World's Greatest Separator"; also folder entitled '"Skimming cream separator. Try one and let the machine
The Renfrew Machinery Company, Limited Branches: Head Office and Works: Saskatoon, Sask. Calgary, Alta Branches:
Sussex, N. B. Saskatoon, Sask. CANA
AGENCIES EVERYWHERE IN CANADA
lrompt. The same exhibitor was first
with
 the cow class with Lilac, a cow of
pleasing type, R. Kirk winning second and third with Belle Rosa and Belle Mona,
metry.

Questions and Answers.
Miscellaneous.
Legs Weak-Cow's Skin Yellow 1. Have a foal five weeks old which had been trembling on the knees for menced knuckling forward ays ago comknees. There is no swelling in joints and otherwise the colt is apparently healthy.
2. Also, a registered Hereford cow seven years old, freshened on June
She has given very little milk since, and skin has turned yellow. She is in good condition and has a good appetite.

Ans:-1. As long as the colt seems in
good health, and no swelling appears. there is litte danger. As he grows
older
the lege will older the legs win gain strength, and
it is more than likely that they will straighten up all right.
2. A yellow skin is believed by some to be an indication of good milking qualities, but such belief does not seem
to be substantiated by this cow's perto be substantiated by this cow's per-
formance, although her milk may be very formance, although her milk may be very
rich. Hereford cows are essentially, beet animals, and not generaily heavy meilk-
ers. . As long as she remains in good ers. As long as she remains in good
condition and has a good appetite, her
illness will not prove serious.


## DO YOUR BUILDINGS LOOK LIKE THESE P



The buildings illustrated above will last for scores of years. You will ask : "How can they last so long ?" The answer is that the concrete used in all these buildings is made from

## ROGERS PORTLAND GEMENT

Ask a man who knows, and he will tell you that there is no other cement just as good as ROGERS.
Read what Thomas A. Edison says of "PORTLAND CEMENT CONCRETE"
"Men are lunatics to keep on building in brick and steel. Reinforced concrete is better and cheaper than either. Builders who stick to brick and steel are behind the times.
"Men who put up wooden structures are worse lunatics. It is because we use such building materials that the fire losses in this country amount to almost $\$ 500,000,000$ a year. Think what a waste of material and labor this represents. It is all unnecessary. Reinforced concrete is not only cheaper than brick and steel, but it is fireproof. forced concrete, from the finest mansions to the tallest sky-scrapers."-[THOS. A. Enison in the Cosmopolion we rein-

We have a valuable book of 128 pages, entitled, "Portland Cement on the Farm," the regular price of which is $\$ 1.00$, which you can obtain free in connection with our special offer, as follows : Send us $\$ 1.00$ for the Rogers Book, and we will mail you with the book an order for $\$ 1.00$ worth of Rogers Cement on the nearest Rogers dealer. If there is no Rogers dealer in your vicinity, send us 50 c ., and we will send you the book by return mail. The information contained in it is worth hundreds of dollars to you. With the aid of this book you will be able to make all your own cement improvements yourself.

## Alfred Rogers, Limited, ${ }^{28}$ King st, Toronto

Canada's Forestry Needs. The printed programme of the forth-
coming Canadian Forestry Convention coming $\begin{gathered}\text { Canadian Forestry } \\ \text { contains } \\ \text { these striking statements }\end{gathered}$
stan Canada's forest area is about 800,000 , 000 acres.
Canada possesses some six hundred hil-
ion board feet of merchantable timber, rorth perhaps ten billion dollars. $t$ the rate of about 100 board feet per acre, or eight billion board feet a year The fire loss is estimated to be 950 soard feet per acre per annum.
We are allowing tro We are allowing from fifty million to
(wo hundred million dollars' worth of We hundred milion dollarss, worth o
timber to burn up every year.
worse than that, we are burning youns Wowse than that, we are burning young
growth, forest litter and soil fertility, on
hundreds of thousands hundreds of thousands of acres. That
means no timber in the future for our means no timber in the future for our
children and children's children.
Forest dres, continued, make deserts.
he roots and soil cover, with their go doubted powers of holding water and soil together. Floods come from districts where the trees have been removed.
Fitty per cent. of Canada is capable growing tree crops and nothing else. area is growing trees as it might. The rest is comparatively unproductive. Whe cannot live withou wood trom the houses we live in to the books we read, is made of the product of the forest. We must have it.
To keep us in timber, pulp, an equable water suppl.
On the prairie, shelter belts and wood-
ots are protecting crops, stock, and lots are protecting crops, stock, and
houses, from the extremes of climate, and are providing farmers with fence post The Dominion Government has supplied twenty-five million seedlings to settlers. Millions are being sent out annually b
nursery companies There is a demand The experience of tree-planters and farseeing farmers, indicates that there will
be a demand for tens of millions be a demand for tens of millions, more.
We must have trees, in the torest, We mut have trees, in the forest, on
the prairie, on sandy lands, in towns and cities.
or days. years to grow trees-not hours or days.
If we want our trees protected we must
care tor them now. To-day is ifity years "ago" from the year 1963-and that not very far away.
All Candadas modern development, -Con
federation,the great railways, the growth of the West, most great machines-have come in the last fifty years.
The seedings of that day are scarcely
more than tie timber now Fiity years is a very short time in the
life oo a forest.
Most of the timber being cut in British Columbia to-day is over two hundred years old-some of it
is over eight hundred There is a crisis coming-when the for-
ests which for a century men have thought "inexhaustible," are going to be greatly depleted.
We must prepare for that contingency. Stop the fires.
Stop the waste in logging, milling, and tilization.
Stop the
Stop the inseet and fungus depreda-
ions. Cut timber only when it is "ripe"-
when it will produce as much value as when it will protucess to men.
Plant up the waste places.
Plant the needed shelter belts. These take time, they are worth it it they Cake money, bueney are
France has spent $\$ 85,000,000$ in planting trees on watersheds.
Germany spends up to $\$ 13$ per acre per annum on some forests, and gets gros
returns up to $\$ 24$ per acre, thus yielding
 year. a whole, German forests produce about $\$ 2$ net per acre annually. Canada spends much less than one cent
per acre per annum on the forest lands per acre
under management.
If we set the efre loss against the tim-
 How can Canadians stop
arrest the waste ?
There is but one answer.
Public opinion, public interest, public
Onscience, are the only forces that will ever make for progress.


## The Cow Stall Floor Problem




Fourth. - They are thoroughly sanitary
Fith - They are remarkably durable in service. You see, Cork; Brick
have no. grain like wood, and hence do not splinter and are not rigid and have no grain like wood, and hence do not splinter -
brittle like cement, and thereore do not crumbter
Sixth. They are easy to lo in in old or new barns.
Sixth. They are easy to lay in old or new barns.
Seventh. They are reasonale in cost, taking into account not merely
first cost, but the cost in the long run, and considering their many advantages. For samples and full information, address
the sole seling azents for Conada :
THE KENT CO., LTD., Expromes Bling. Montreal, Que.
No accidents like this on Cork Brick Floors


The best is none too good. About one thous tons of surface soil is cultivated to the acre, and is hard for some to understand why an application of a few hundred pounds of good fertilizer will make such a wonderful increase in the crop, but that is science. Our fertilizers are quickly soluble and are so compounded that they thoroughly enrich the soil on the same principle as a few drops of bluing will color a large amount of water

 Tho American Agricultural Chemical Co.


by USING THE BEST STOGK CONDITIONER Caldwell's Molasses Meal

 The Caldwell Feed Co., Limited, Dundas, Ont.

Gossip.
John Elder a breeders of dual purpose Shorthorn cattle, Hensall, Ont., inform us that they have rocently sold mon Reiet, Elyira Ont. Ho to mon leiv,
 Sne two-year-old bull has been sold to Jas, shobbroak londeeboro ont this being the third herd-header Mr., shobbrook has selected from thie deop-milking herd. Thos. E. Smith, pholpaton, selected a very low-set, thick, red bull, anter considerable trouble, he not knowing which of two good ones to choose. siled a 12 -quart dail whill he of theme nd the damm of the other, tady watern, loo, in her fourteenth year, was suckling
wo calves. This old cow has dropped en calvee, and never has milleod shorter period than ten monthes. She it
the dam of Red Baron, now oftered tin these columns, a large, darkk-red bull, in Eoood condition, which cant bo bought at yearling, is offered, and a beautiful roone

 ndoavoring to increase the herd, which
founded on deep-milling otraing. is founded on deep-milking atraing s. Soe
the advertisement elsewhere in this tuoue.
sire distribution conimenoled. According to "The Farmer's Advocate and Home Journal," Wimnipog, Man., the $t$ the Dominion Department of Arricoul fure in placing pure-bred alroe in districtif ghere these are scarce, has alroesdy bo took Commiasioner Johin Bright am Lounced the policy of the dopariment in
 purobred sires could be securod. once
outlined, applications came in by the outinnod, applications came lin by the
socre, and the work of plietlig them to
 charge of H. S. Hemer and o. M, whe
Rae, of the Live-stock Branch. Theee Rae, of the Live-tock Brance. . Mheme
two men are now in the weat orgniting
associations where the sirto may bo associations where the sirine may be
placed. It will, howver, bo mpontibe
tor theo sent in, and only the earlier onee can be doelt with this year. By far the larger number of applications are for bulle, with yutto atow for stellions. It wee stete in so far as was possible, purchased with in the Province where they were placed
but considerable dimeuty wes but considerable dimeculty wee experience
in getting a sufficient number of bull in get ting a sumfient number of bulle in
the Western Provinces to supply the do-
 case with horres. A great deal organization work is required as no stal-
lions or bulls are placed in localitiee already supplied with the breed asked for This, as well as the organization of to
socteties to undertake $\begin{aligned} & \text { reaponaibility }\end{aligned}$ care of the sire supplied required the ground to bo gone over carefully before
the animal is placed in order to decide

 ling atter thi work undert
Department of - Agrieulure.

1126
HORSE OWNERS! USE


CAUSTIC BALSAM.
 Buan Romownoll banobo frow ME LAWrencr. witisiavis Veterinary Drugs Pharmacy Any kind of VETERINARY If you need write at once, when we will quote very
low and reasonable prices. Consultation by letter FREE of
charge, with our diplomed veterinary doctor. For any diseases, write and consult him now.
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will clean them of permanently,
and you work the and you work the horse same time.
Does not blister or remove the hair. $\$ 2.00$ per bottle, delivered Will tell you more if you write.
Book 4 K free. ABSORBINE, JR., the antiseptic liniment for mankind,
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## MARE YOUV OWW TILE <br>  Cost $\$ 4.00$ to $\$ 6.00$ per Hand or Power Send for Prmere'Cament Til M Catalog Wallserville, Ont. <br> 



When writing mantion Advocate

THE FARMER'S ADVOCATE.
FOUNDED 1866

Questions and Answers. Miscellaneous.

Calves Die.
Can you tell me the cause of my calves dying? After two days we give them
new milk? Ans.-Witho
symptoms of the irouble wewledge of the care to offer any explanation. They may have been in a very low state of vitality when born, due to some condition of they scoured?

Period of Oestrum.
Please inform me how long a cow is in to have her served.
new beginner. Ans.-The period varies somewhat, but
usually does Sometimes, however, it lasts two days,
Opinions differ as to the best time fo Opinions differ as to the best time for
service during the period, and no set rule can be laid down.

Boundary Fences.

1. A and B own a piece of land ad-
joining each other. There has been
and log line fence in six feet on A's land for
twenty years. A builds a wire twenty ${ }^{\text {on }}$ B seand without B's consent. The
wine compel a to put the a year. Can where the log fence was? If so, how? 2. Can I obtain the Acts regarding
line fences in Ontario? If so, where? Ontario. If so, where? Ans. $\mathbf{- 1}$. We think not 2. The Line Fences Act, R
utes of Ontario, Chapter 284 .

## Mortgagor and Mortgagee.

1. A bought ofl B a farm for $\$ 8,000$,
paid $\$ 1,000$ down and, since, has made
two yearly payments of $\$ 500$ each. als
the interest all paid up io date, March
1st, 1912. B now wants
is trying to cause trouble by refusing an A
to sell gravel from a gravel-pit that
Council opened last year. ${ }^{\text {gravel-pit tha }}$ A wishes to
pay the rest of mortgage. B's lawy
says A cannot make the payment until
March next. Nothing is anyer

accept the rest of mortgage now B to
2. Or paning a whole year's interest
or stop A selling gravel?
Ontario.

Ontario.
Ans. -1
Ans. -1.
2. Yes.
Cow Coughs
I have a grade Holstein cow, ten years
old, which has been sick about six weeks Sho coughs sometimes, and seems to have
trouble to breathe; holds her head out straight, and wheezes and grunts; seems
to be abte to swallow all right, but eats
very little and dooe She is very thin, and is due to calve
about July 3oth. Veterin been attending to her for about three
weeks. He said he thought she had Jaw. He gave me medicine for her, her
sha did not show any improvement. Ans.-Your veterinariau is W. E.
Correct in hiy arrect in his diagnosis.
little swelling is noticed ines very
in lump jaw. However, it you noticed in lump sat satisfied with
the treatment, we would advise that you
ave your veterinarian tect


Stumps Minimize Your Profits
How much of your fertile land is occupied and wasted by stumps and boulders. Why not blast them with
C X L STUMPING POWDER
The cheapest, quickest, best method known to-day for clearing
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Stallions and Gillies. I have now the biggest selection in Canada, and a few toppers
stallions. High-class breeding and high-class quality-and low prices. G. A. BRODIE, NEWMARKET P

,Mount Vietoria Clydes \& Hackneys whain wian
 . WATSON, Manager, Hudson Heights, Que. CLYDESDALES, PONIES, BULLS ${ }_{2}^{2}$ Imported 3 year old Clyde filliee ponies broken to ride and drive, safe and quiet for women and children. Bulls consist of 4. From
12 to 15 months old. All this stock is for sale at reasonable prices. Myrte C. P. R. and G. T. R ${ }^{38 \text { miles East of Toronto. }}$ (Bailairgowrie Farm) $\quad$ JOHN MILK

1A few choice BARBER BROS., Gatineau Pt., Que., near Ottawa
CHOICE CLYDESDALE STALLIONS AND MARES Both imported and Canadian bred always on hand at SMITH \& RICHARDSON
Columbus, Ont.

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winning
Cly one or more winners in every, class. We have new at the late Guelph show, showed
oith breeding and quality unsurpased- All are for sale-winning Stallions and Fillies JOHN A. BOAG \& SON, QUEENSVILLE, ONT. ORMSBY GRANGE STOCK FARM, ORMSTOWN, Pe DUE.


## In-Foal Mares INSURANCE

0 F ALL the losses owners are liable to, none can be less prevented or modilied in any manner whatsoever than loss by loaling. Notwithmany times successfully she is always a although a mare may have foaled owner through the fear of losing by death the often very higlin cassin value Ot the Beast, not to mention service fee, care and expenses incurred for no avail.
Why risk such loss when a payment of a fexp dollars in cover you should it happen. Reduce the amount of the RISK by insuring only risking thereby the loss of the Premium if the mare foals allright. We issue 30 days, 6 months and 12 months policies with or without cover on foal. THE GEveral anis

Questions and Answers Miscellaneous.
IMPROVEMENTS

CONNOR ${ }^{\text {Ealla }}$ Bearing WASHER

- Me band for furing mater, winger hande


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Belgum and asist them to buy Percheron, Bel.


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 Hlustrated cataogues and descriptions, highest refences on ap.
.plication. We are doing a very large business in . Dication. We are doing a very large besiness
dratit horses of all breds. but especially Percheron
and we are offering unsurpassed values. All ove and we are offering unsurpassed values. All over
 Shires and Shorthorns In Shire stallions and fillies, from the best studs in
England, we are offering some rare animals at rare prices. Scotch Shorthorns of either sex or age, of
hithest breding and quality. John Gardouse
L. Son, Highfeld, Ont Phone DR. BELL'S $\begin{gathered}\text { Veterinary } \\ \text { der } \\ \text { dedicol } \\ \text { Medical Won- }\end{gathered}$ FREE to horsemen who will give The Wonder a
fair trial. Guaranteed ito cure Infammation.
Colic Cough Colic. Coughs, Coilds. Distemper, Fevers, etc.
Agents wanted. DR. BELL. V.S.. Kingston. Ont Aberdeen-Angus of Show Form
 ity and bred from show-winners. T. B. BR. BR.
FOOT. Fergus, Gnt., G.T.R. and C.P.R.
CEDARDALE SHORTHORNS



Heaves or Roaring.
A 6 -year-old mare worked very hard for
past year makes a peculiar grating nois when breathing, while doing heavy work or traveling fast; not noticeable when at
rest. One veterinary surgeon calls it One veterinary."
"thick in the wind."

1. Do the terms." "thick in the wind,",
wind-broken, and a roarer all mean the
same? What is the trouble with my mare.
2. 2. What is the trouble
and the probable cause?
1. Is there any cure, and what? A
veterinary surgeon recently told veterinary surgeon recently told me that
the trouble could be relieved by an oper-
ation, which he called tracheotomy, in which a tube could beled tracheotomy, in
and overcome the windpipe and overcome the trouble.
2. Is there sul be done by an ordinary yeterind can it geon without danger? 5. Please describe the method of per-
forming such an operation, and what
kind kind of a tube used ? 6. A tube properly put in, will it last
the life-time of a horse, or have to be 7. In what part of the windpipe is the
best place to have it inserted? sest place to have it inserted ?
3. Will the horse have to be laid up
for a time after operation? 9. Can the tube be placed so as not
to be known to an observer that it is there?
10 . Is there any danger of particles of dust entering the lungs through this
tube, or of the tube itself getting drawn tube, or of the tube itselr getting drawn
into the windpipe and causing injury or death to the horse?
4. As the veterinary surgeon here is not familiar with such an operation, the
advice you give will be greatly appreci-
ated by me, as mare is getting worse al ated by me, as mare is getting worse al
the time. Do you think such an operation might prove successful ?
5. Would an ordinary veterinary sur-
geon do the job all right, or would it geon do the job all right, or wiles to
be better for me to drive fifty miles an old and experienced veterinary sul
geon, as the mare is a valuable one?
Ans. -1 . Correctly speaking, no. Thick
in the wind and heaves are the same in the wind and heaves are the same
disease, due to emphysema of the lungs,
which consists of a dilated condition Which consists of a dilated condition of
the lungs, owing to an excess of air in
the air cells, or in the air cells, or in the cellular tissue
surrounding the lobules. This prevents
the inspiration of the surrounding the lobules. This prevents
the inspiration of the necessary amount
of air, and the "hlowis of air, and the "blowing' of an animal at hard or fast work results.
6. Your veterinarian should be able to diagnose the disease better than we can,
as he is familiar with all the symptoms. as he is familiar with all the symptoms.
If the disease is roaring, it is likely due to paralysis or atrophy of the muscles
of the left side of the larnyx, this condition decreasing the calibre, the noise
heing made during inspiration. If heaves, it may be hereditary, or brought on by
heavy feeding, or dusty hay, or very hard driving when the animal is full of feed 3. Very little can be done for roaring. In the early stages, benefit may be de
rived from blistering or firing the throat, or giving chlorate of potash. Electricity
has been found beneficial. Tracheotomy may be performed in extreme cases. It
the disease is heaves, feed lightly on hay, and liberally on grain, soth of best
quality. Dampen all feed with lime time, and never drive or work hard on
full stomach. 4. A capable veterinarian should bit but unless the case is severe, and th animal valuable. it wourd scarcely pay.
5 and 7 . The details of the operation are tons lengthy to enumerate. Th
horse is held ay a twitch; cocaine is use
to reduce the sensilifility of the part; his head is held uif and a longitudinal it in the skin if, We wenter-side of the a semi-cir
rings of
instrumen

## 

Tracheotumy thly may ,.... purche

##  SHORTHORNS

Wednesday, June 25th, 1913
at spring grove farm, llderton, ontario
This offering of thiry head compriges the entire Spring Grove herd of


 and the remainder of those of breeding age are bred tiot he cruickesank
 maryss Rosemoons. Strathallans and othersib Thisis is an enpecially atrractive offering, ali the cattle being in good breding oondition, and many,
when fited, will be heard from at our large exhibitions. Some of the when arted, will bile hear
 for cath. Trains will be met at IIderton the morning of the sale, which will begin at 1.30 p.m. Catalogutes on appication to
T. E. ROBSON, Manager, London, Ont.

The Auld Herd we have females of all agea and of and pleasant valley the best Scotch familiee for mele. Shorthorns see uu. Correspondence invitod.


SHIO RTNEORNN
One high class imported 13 -months bull calf: one junior yearling show bull; one promising 11 -months bull calf; one 1 -months farmers MITCHELL BROS., Burlington, Ont. Farmurimile fromention SHORTHORNS AND GLYDESDALES


 ismili Four Young bulis For sale ixp ing
 Sud
 ROBERT MLLLER,
masurasm
 A. J. HOWDEN \& CO., COLUMBUS, ONT.

## (1) -Records show that cattle bought from the Salem herd won numerous ribbons the past season; we have

 others. Several young bulls are priced reasonably ELORA, G.T.R. and C.P.R.$\qquad$



5 YOUNG BULLS Mitivivin


 some from imp. dams.


MEADOW LAWN SHORTHORNS OF RICHEST AND
ABLE SCOTCH BREEDING, and of high-class type and condition. I can supply

I
DAIRY-BRED SHORTHORNS We have for sale, Scotch- and English-bred Soorthorns. A few bulle of improved breed
ing on big miking lines ; also other pure Scoth and heifers of both breed lines ber
G. E. MORDEN \& SON, OAKVILLE, ONTARIO. Go ther pure Sootch and heifers of both breed lines.
G. E. MORDEN \& SON, OAKVILLE, ONTARIO. Come and Inspect, or write, should you want stock that are great combined along with show-ring conformation. No bulls of any age for sale at present
Please Mention Tho Advocato


Shorthorns，Cotswolds，Berkshires Simertion，imotaine anumer
 CHAS．E．BONNYCASTL
．0．and Scation，Campbelliond，Oacario
SHORTHORNS！
Bult of ueful age all wold．Would apprecdate
U．Gargill \＆Son，Cargill，Ont．
Oakland－50 Shorthorns



Spring Valley Shorithorns

EYLE BROS
Woodholme S Ithe tor fiem numberns


The ManorShorthorns
 om 7 months to a few day．Also he heiress got
by，and ows in cail toye of the
bulls of the breed．Inspection solicited． J．T．GIBSON，：－－：Denfield，Ont． Clovar Pell Shorthorms
 Spruce Lodge Shorthorns \＆Leicesters Preent offering：Young bulls and heifers from
rrand milking dams．Also a choioe lot of Leicoter
rams and ewe lambs，and ewes of all ages bred to rams and ewe lambs，and ewes of all ages bredter
Impr ram．
W．A．Douslas，Tuscarora，Ont

pure－bred registerrd Holstein Cattle


The Maples HOLSTEIN Herd Headed by Prine Angait Mecththilde．For eolat et
 WALBURN RIVERS，FOLDENS，ONT

 G．W．CLEMONS，R．R．No．2，St．George，Ont．

 Glenwood Stock Farrm 2，st．George．Ont． HOLSTEINS 2 EEARINGG

 boing cleansed
8．A．few days＇reat should be given 10．Properly done，it works all right．
11 and 12 ．The operation is
is rather a

 hras beon successful for roaring．
not be very not a very common operation，and we
would be sure that it is necessary would be sure t
having it done．

## Ouestions and Answers．

 Miecellancous．Storing Dynamite．
Are there any laws regarding the stor－ ing of dynamite，as to the kind of build－
ing it should be stored in，what distance ing it should be stored in，what distance
it should be from any building，and what
quantity quantity may be kept at one time？ What steps would one have to take to have the dealer remove same if he should
be storing more than is lawiful？ be storing more than is lawit？？
Ontario． Ans．－We would refer you to The Con－
solidated Municipal Act（Ontario Stat－ utes，1903，Chap．19），Section 542，Sub． sec．17，and to local municipal by－law， if any，passed in pursuance thereof；als
to The Mines Act（Ontario Statutes 1906，Chap．11），Sec．205，Sub．－secs．
$8,4,5$ ． Sore Teats－－Cats Die－－Plaster for 1．What is the best thing to do
cows have sores on their teats，and what causes the sores on their teats，and what 2．I had two cats which were in good
condition a year ago． condition a year ago．They got thinner
and thinner，till finally they died．They
did did not drink much mill，but caught many mice the time they were sick．Can
you inform me what the trouble is，and you inform me what the trouble is，an
if it is contagious？Can cats get tuber culosis？
be of any use ？ be of any use？INQUIRER． and ointment made of 4 drams bress three acid， 20 drops carbolic acid，and 2 ounces
vaseline．Milk with teats dry vaseline．Milk with teats dry．Som
 wet causes it on some cows，and in som
it is due to it is due to cracking of the teats． 2．Too many mice will kill cats．W
presume that a form of consumption may attack the feline race． 3．The lime which it contains migh
do a little good，but its applicatio do a little good，but its application
would，in most cases，scarcely prove
profitable． profitable．Better use it for the chick
ens．It is an excellent grit and shell producer．
Horse Stocks－－Colic－－Lice
1．Have a driving horse which is stock－
ing slightly in legs．What will cure？ 2．What treatment should be used in a
case of mare with foal which gets a case of mare with foal which gets a
touch of colic when turned on grass
through the day？Would bital through the day？Would bran be help－
ful，and in what proportion to oats？
3．What ful，and in what proportion to oats？
3．What will kill lice on colts？

Ans．－1．It is good practice to give
purgative of 6 to 10 drams of
purgative of 6 to 10 drams of aloes and
2 drams of ginger．After the bowel drams of ginger．After the bowel
have regained their normal condition，
dessertspoonfen have regained their normal condition，
dessertspoontul of saltpetre should be
given in damp tood ance daily or four days to at upon the kidneys
Hand－rubbing the legg sometimes good results，aod the application o
woollen landages，slighty elastic，and
moderately tight．gives restren moderately tight，gives results．Feed
lightly on grain．Let the horse have
grass，and give a proportion of bran in his grain feed．a proportion of bran in tion，caused by the change of feed．Indiges
the mare out for a short time only． first，and better．，during the middle of
the day．A third of her grain ration con
her sertspoonful of ground ginger．If she
has a bad attack．give \＆drams fluid
extract of belladonna，and $1 \downarrow$ ounces each of landanumn and sweet spirits
of nitre in a 3．Try a mixture of cement and insect
powder sifted into the hair on the backs
of the animats tive，or any of the propriotary is effice
theep and cattle wastho


## Thresh When You Should

Don＇t depend on the custom man，board his men，feed his engine，and work when he wants to． Thresh your grain with a small sized
Rumely Grain Separator and do it when you want to．You can thresh 500 to 1,000 bushels a day on your own place，with a small outfit， and take care of your neighbors work as well．
eeth that thresh all the grain from the heads and their extra large grates get practically every kernel－none of it goes through the stacker．

## OH

he only one you run with cheap kerosene all the time－will furnish cheapp reliable and unassually steady power for oour separator－－weides being a bie
help all the year round－plowing，hauling，husking，baling，etc．

RUMELY PRODUCTS CO．
Power－Farming Machinery
Brandon，Calgary．Edmonton． $\begin{gathered}\text { Regina．Winnipes．} \\ \text { Yorkton．Estevan．Vancouver．}\end{gathered}$ Saskatoon．Toronto．

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A Necessity for the Dairy Farmer

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LAKEVIEW HOLSTEINS
Herd headed by Count Hengerveld Fayne De Kol，by Pietertije Hengerveld＇s Cout
De Kol out of Grace Foyne
and many more to

 Broonte，Onat
Service Bulls and Bull Calves from A．R．o．Dams．
 the butter fat in your herd，let me sell you one of these builis：If you want to increase maple avenue stock farm，L．t．Connell，Prop yo

## FAIRVIEW FARMS HERD

REMEMBER：－Pontiac Korndyke sired the bull that sired the new 44－pound cow Do you want a sire to use that has such transmitting ability？If so secure a son of
Pontiac Korndyke，or Rag Apple Korndyke 8th，the strongest bred Korndyke bull
in the world in the world．
E．H．DOLLAR，Heuvelton，N．Y．
Near Prescott．Ont
Bvergreen Stock Farm High－class Registered Holstein A．E．HULET，Norwich，Ontario．
Woodline Holsteins Pletertie，a grandson of Beauty Pieterte the ethe atest sires in the world，and Dulke Beauty
cow，and has produced a $30-1 \mathrm{~b}$ ．daughter with a 30 －ow in the world which is a $30-\mathrm{lb}$ ．

Holsteins 契解 2 and
A．WATSON \＆\＆SNS，ST．THOMMS，Ontario．

JUNE 19， 1918


B．\＆S．II．Thompson \＆．Co．Ltd． MONTREAL


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 Lincolndale，Agricultural school， High－class Ayrshires ${ }^{-\mathrm{If} \text { in oua are wank }}$
 Pmalee all azen Price arreary；Kelso，Que． DON JERSEY HERD Difirs young


 GLEN ROUGE JERSEYS



John Hallam, Limited
111 E. Front St., Toronto
The largest in our line in Canada.
Alloway Lodge Stook Farm ABERDEEN-ANGUS CATTTLE
SOUTHDOWN SHEEP
Now is the time to select your sire for use this fall.
The first choice is guaranteed to those ordering The first choice ie guaranted to those ordering
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Sond ROBT. McEWEN,
R. R. Stn. and Tel., London, Offord Down Sheep, Shorthorn Cat-
 Making High-priced Pork Whilk Grinding Their Own Feed


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in every tow
and district in every tow:
Shipmente mad. from Galt, One:
Winnipen. Mes
Addresen to
Head Office
GANADIAN HOG MOTOR CO., LTB
PINE GROVE YORKSHIRES


SWINE OF Yorkhires, TREEDTH FOR SALE Gappehiree, Choester Whitee, Porand,-Chinan, and

Assistant District Attorney Clark was
conducting a case in the Criminal conducting a case in the Criminal Court.
A large, ough-shouldered negro was A large, ough-shouldered negro was in
the witness chair. "And then," sa
went down in the alley, and shot a few
craps." craps." "Ah" exclaimed Mr. Clark, swinging
his eyeglass impressively. "Now sir, his eyeglass impressively. "Now sir, I
want you to address the jury, and tell
them just how tou deal craps," them just how you deal craps."" ing his eyes. "Address the jury, sir," thundered M1
Clark, "and tell them just how yo deal craps."
witness, uneasily. "Firs'," shing I know
this gemman this gemman gwine to, ask me how to dwink
Argonaut.


CLEANS THE HANDS No matter how soiled they are.
Grease, Ink and all other stains come off with suap). I.eaves the ALL DLALLERSS
SNAP COMPANY, LMMIED

Questions and Answers.

Rupture.
Cow has a soft lump, larger than my fist, on her abdomen in front of her uader. When pressed upon it disap-
pears, but reappears so soon as pressure is released. $\quad w$. is released.
W. O. P.
ate rupture. A veterinarian might be able to operate successfully. It will probably do no harm. It is not likely to do harm un-
less she should have difficulty some time in parturition, in which case the opening might become enlarged, and large por-
tions of the intestines escape into the tions of the intestines escape into the
sac. It would not be wise to breed her
again unless she again unless she be valuable for breeding
purposes purposes, in which case you will probably
be willing to take the risk.

Partial Dislocation of Patella Colt hurt its stifle, and now there is a
soft lump on the joint.
$\begin{array}{ll}\text { B. R. T. }\end{array}$ Ans.-The stifle bone becomes partially
dislocated when the colt moves. This is very unsatisfactory to treat, as a complete recovery seldom takes place, but the
colt should make a useful animal colt should make a useful animal. Get
a blister made of $1 \frac{1}{3}$ drams biniodide a bister made of $1 \frac{1}{2}$ drams biniodide of
mercury and cantharides, mixed with 2 ounces vaseline. Clip the hair off the
front and inside front and inside of the joint. Tie so
that he cannot bite the part. blister well in once daily for two days On the third day apply sweet oil. Let
him him loose now, but keep as quiet as
possible. Oil every day until the hassible. grown again. has grown again. Repeat the blistering
once every four weeks for four or five once every
times.
Fatality in Foal. Last year my mare foaled at night,
and the foal was found dead next morning. The mare's mammeo contained no
milk, just a liquid that resembled milk, just a liquid that resembled glue
in consistence, and almost as clear as
and water. I milked this out a few
times, and in few times, and in four days she was dry.
Yesterday morning she produced a smart Yesterday morning she produced a smart
foan, but she would not attend to it
She was She bas she would not attend to it.
Shoss to it, but simply in-
different. Again her mamme contain ${ }^{\text {d }}$ different. Again her mamme containsd
no milk, but a liquid like mucilage. The no milk, but a liquid like mucilage. The
foal nursed her and took this stuff, but
about 5 , about $5 \mathrm{p} . \mathrm{m}$. it lay down and never got
up again. It did not seem to suffer much, but was dead before midnight.
Would it be wise to breed her again? Ans.-The fluid resembling mucilage that you mention, is called "colostrum,", and
this is a natural condition. It is, or should be, present in all cases where the mikk has not escaped before foallag.
the foal had lived and continued
nurse nurse, the mare would have yielded milk
in $a, d a y$ what caused the death of the foal. $\begin{aligned} & \text { It } \\ & \text { may }\end{aligned}$ - meconeum (the contents of the bowels at
birth), which thoult finger and injections when not by the
Ther The passage for the urine may have been weakness of the heart. or other causes,
which in some cases are very hard to determine. I think it would be wise to
b,teed her again, and give her recular
light work. light work, during the whole period of
pregnancy

Miscellaneous.
Cows Holding up Milk I have fifteen milch cows which When I first
fuse to give

## udders. a milk there

## 

## same. What is, and they are all should be done?



Maple Villa Oxford Downs and Yorkshires 5 This fall I have the best lot of lambs I ever bred. I have plenty of early if you want the best. Ram lambs, shearlings and ewe lambs. Yorkshires of all ages
J. A. CERSWELL, BOND HEAD P.O., ONTARIO Mradford or Beeton otations Long-dietance 'phone

| ize Chester White $\underset{\text { Swine-Winner - class }}{\text { Sio }}$ | Maple Grove Yorkshires |
| :---: | :---: |
| and quality, | Maple Grove Yorkshires | type and quality, bred from winners and and chas Ip

ons. Yo. Young stock both sexes, any age sreasonable
orices.

Maple Grove Yorkshires Wrice. Wright \& Son, Glanworth P. © One, Onv HAMPSHIRE SWINE Both sexes and all ages, from imported stock.
c. A. POWELL $\frac{\text { Four miles north of London. }}{\text { Morriston Tem Torthe and Shorthorne }}$

 | Shorthorna. Salifaction guaranteed Cual-purpose |
| :--- |
| Coland-China Swi. Morriston. Ont |

 Essex Co. Glo. G. Gould, Edgar's Mills, Ont.
 mber of March, breeding age. We have also a lare


 H. S. McDIARMIID, Fingal P. O., Ontario
Shedden Sto Yorkshires $\begin{gathered}\text { Choice December sows and } \\ \text { bigs from large litters and alao fine lot of April }\end{gathered}$


##  




ELMHURST LARGE ENGLISH BERKSHIRES


## The Call of the North

$\mathbf{D}^{\mathbf{0} \text { you knot of the many admat }}$ tage that New Ontario, with ito Dulame of textle prean odect the the

 ree throved producing istrin and For lierature deacripive of thin


H. A. MACDONELL

Direeter el Colonisation
Frllimeat Blage. TOROWTO, OWT.
Cunard Line mmigration Departmen
Special Interest to FARMERS' CLUBS
We secure "Help" for Farmers from the country districts of the be filled up. Copies sent on application. Average time to
get you "Help" about 6 weeks get you "Help about regula fare on Ocean and Rail to pay, You need not be without "Help", this Summer or Fall if you send
requirement early. Write for further particulara.
Cunard Steamship Company 114 King Street W, Toronte.


MAIL CONTRACT SEALED TENDERS ADDRESSED TO at Ottawa untll noon, on Friday, the His Majesty's Mails on a proposed contract for four years, six times per week,
over Rural Mail Route No. 1, from Embro (Brook Rural Mail Route No. Way), Ont., from the 1st
(Brom Embro
the Printed notices containing further information as to conditions of proposed contract may be seen, and blank forms
of Tender may be obtained, at the Post of Tender may be obtained, at the Post
Offlces of Embro, Youngsville, Brooksdelo, and at the office of the Post-office Inspector at London. G. C. ANDERSON,

Post Office Department,
Mail Service Branch,
Mail Service Branch,
Mand
Ottawa, May 21st, 1913.


## Its Light Draft Surprises

Those who have owned old-fashioned heavy-draft manure preaders are always surprised at the light draft of the New Idea One reason for the New ing o 1,000 pounds


## Manure Spreader

also has straight line of drive through direct connection of front and rear axles-the only spreader that has this draft-reducing feature. It also has two cylinders instead of one. The top one takes the top weight off and prevents lower from getting choked. No ball or roller bearings to break or twist or grind on the axle, but self-aligning bearings that are easily oiled. No "nest of gear wheels" to collect grit, get out of order, and grind to pieces. The New Idea's direct chain-drive is the simplest, most efficient and lightest running on the market. But get the New Idea catalog and learn full particulars about this powerful, steel-wheel, low-down machine
Tudhope-Anderson Co., Limited Orillia - - CANADA.
M. MOODY \& SONS CO., Terrebonne, Que. Selling agents for Province of Quebec.
The Anthony Wire Fence
 ANTHONY WIRE FENCE is the cheapeet on the market if you value quality and workmanship.
ANTHONY WIRE FENCE is made from all No. 9 hard steel wire thoroughly galvanized. ANTHONY WIRE FENCE has the stay wires tied to the line wires with the strong ast, neatest and most compact lock on any wire fence made ANTHONY WIRE FENCE is so constructed that it will not bend down at the top nor roll up at the bottom; but tands up straight when erected.
Buy it and try it, and be satisfied
hive agents wanted in all unoocupied teantront The Anthony Wire Fence Co. of Canada, Limited Walkerville, Ontario.

Electric Steel Wheel Farm Trucks
 Saves both labor and horses.

Write for catalogue and prices. $\underset{8}{\text { ELELECTRIC St.2 }}$ WHEEL CuIncy, III. Ot NORMAN S. ENOX 47 Wellington Street Eae | Toronto, Ont. |
| :--- |
| $\begin{array}{l}\text { Tanter } \\ \text { Canadian } \\ \text { Sales }\end{array}$ |


"Clay" Gates
STRONGEST and best farm gate made. 30,000 sold in 1912. Can't
sag. bend oreak. Can be raised as shown
Good for Winter and Summer. Send for
Giluostrated price list
The CANANAN GATE CO. Ltd.
The CANADIAN GATE CO. L
34 Morris St., GUELPH, ont.

## 

Department of the Naval Service Tenders for Masts and Buildings for Wir
Telegraph Stations to be erected at Kingston, Ontario Port Burwell, Ontarlo $\mathrm{S}^{\text {EALED }}$ signed, and endorsed "Tender for the under-
 Stations." will be received at this office until noo
on Wednedley, June 25th, 1913. Plans and specification and form of contract to
be entered into can be seen on and after the 10th
 of the
Service, Ottawa, or at the offices of the
Post Master, Kingston, Ontario.
Post Master, Kingston, Ontario.
Harbor Master, Toronto, Ontario
Harbor Master, Toronto, Ontario.
Post Mester, Port Burwell, Ontario
Contractors are at liberty to submit tenders for
any or all ot hee masts or buildings for any of the ang eve etations, but a separate tender masy of foo
abor
warded for each set of masts and for each set warded for each set of masts and for each set
buildings tendered on I I addition the the bove,
contractors may, if they so desire, submit a tende contractors may, if ithey so desire, aubsit a tend
for the three complete sets of mast and a tender
for the three complete eets of of buildings. for the three complete sets of buildings.
Peraoss tendering gre onified
not that



each member of the firm must be given.
Each tender must beacompanied by an aceept
ed che out on a casted bank, payabtle to the orde
of the Honorable the Minister of the Naval Service


cheque will be returned.
The Department doos not bind itself to accept
the lowest or any tender.
By order
G. J. Desbarats,

Department of the Naval Service,
$-43176$.


MAIL CONTRACT SEALED TENDERS ADDRESSED TO the Postmaster-General, will be recelved 11th July, 1913, for the conveyance of His Majesty's Mails on a proposed contract for four years, three time per
week each way, over Rural Mail Route No. 1, from Appin (Appin and Inadale), Ont.,
pleasur
Printed notices containing further in formation as to conditions of proposed contract may be seen, and blank form of Tender may be obtained, at the Pos
offices of Appin. Inadale, and Glen WH-1 omices of Appin, Inadale, and Glon
low, and at the office of the Post-oflc Inspector at London.

> C. ANDERSON, Superintendent

Post Offlce Department,
Mail Service Branch,
Ottawa, May 29th, 1913.


IF YOU WANT BEST RESULTS Advertise in the Advocite

## The "Empire" Separator will Help Your Farm Profits. Look Into These Figures

$\mathrm{T}^{\mathrm{E}}$ "would like you to own an "Empire" Separator, because it is distinct and separate from all other cream separators, It has separator, it has lasted through 3 generations. Grandfathers of present users were "Empire" owners many a long year ago.
-This feature of a separator "lasting' is very important. It means more than good material and pertect constuction. It means the "Empire" is so made that the wear and tear of use does not spoil its efficiency
A man can get an "Empire" and run high or 8 years so easily, and at such arated. He can also select another maarated. He can also select another matalking points. This machine runs easily at first. As it wears, it gets harder and harder. Without knowing it, the user slows it down. At a certain point, easily reached, it spills the valuable but-ter-fat into the skim milk-only partly separating it. Here is loss in money. The user isn t blind. He sees this loss. tor rerhan "Empire" tor-perhaps

$$
\% \%
$$

The "Empire" to-day has come through these 3 generations of users in one family. They have bought "Empire" after "Empire," each time getting new models. The "Empire" has kept pace with the times. Its basic and exaserfect machine have been in all these a perfect machine have been indreds of makes of separators have discontinued and gone out of commercial existence. They have been failures as to basic design. The "Empire" has been a success in basic design. It has lived and
grown. Why should you get a separator? Your separator should be an "Empire," we know, if you regard your future. But why should you have a separator at all ? In the first place a cream separator getsyours and with less trouble than you can get from pans or coolers
If you depend on cream "rising" you only get about 93 lbs . of butter-fat from your milk where you should get 100 lbs .
This is a big loss. It is a very great reduction on your profits. Even then, when you actually get 93 lbs . by skim ming, you are doing mighty well. It i easily possible to secure only 60 lbs . of butter-fat by skimming. A little change in the weather, a little neglect-you lose 40 lbs. of butter-fat that is worth $\$ 12.00$ You load on the milting 800 lbs . milk, pasturing, etc.
If you get an "Empire," you earn anything from $\$ 2.10$ for according to efficiency.

If you have 12 ordinary milk cows, If you have 12 ordinary mink cows ing a year, and running $31 / 2 \%$ butter fat, an "Empire" will make savings of at least $\$ 53.22$ a year over skimming. It will get you nearly 177 lbs . of butter extra - over $2,500 \mathrm{lbs}$. instead of $2,300 \mathrm{lbs}$.

Remember, this comparison is for a pretty low grade of cow-the average every-day milker. If the 12 cows were like Creamelle Vale, the famous Massa chusetts Holstein, the milk production would run to 355,092 lbs. for the year this case the "Empire" would have sethised for such a farm over 970 extra pounds of butter worth at 30 cents a pound, about $\$ 291$.
\& : \%
We have made you two comparisonsone taken from a farm with 12 ordinary cows on it, and another from a farm with 12 Holsteins worth $\$ 180,000$ in cold cash. On the everyday farm the "Empire" saves $\$ 53.22$ by efficient separating of butter-fat. This might be your farm. Also, instead of an "Empire" it might be any separator that gets $100 \%$ of the butter-fat while new
In 11 years of service the "Empire" earns its own cost and money up
$\$ 587.42$ a profit of $\$ 500$, let us say.
The other separator will deteriorate and slow down. If it runs $100 \%$ for two years, $98 \%$ for two years, $95 \%$ for two years, $93 \%$ for two years and $91 \%$ for two years, it will only average about 95 ibs. 6 ozs. of butter-fat over the period, out of every 100 lbs . produced.
It will only earn 2 lbs. 6 ozs. of extra butter in each 100, or 60 lbs . per year, worth $\$ 18$, or $\$ 198$ in 11 years
This means a profit of about $\$ 98$ in 11 years after paying for a separator, not "Empire" at the same cost, and doing the same work.
"This comparison shows why the Empire has been used in single why it has lasted as a commercial suc cess. It pays about five times as well, with ordinary everyday milkers on the ordinary farm, as a separator of good make, but without the lasting qualities of the "Empire.'
All separators "pay their way." But the best separator is the "Empire" in its ability to keep high efficiency.
We would like to have you write us a letter regarding the "Empire" machine, if you have several milch cows.
On receipt of post card we
On receipt of post card we will send

If you want to buy an "Empire, us for our SPECIAL EMPIRE OFFER If you want to trade in your present separator for an Empire, ask for our
SPECIAL EMPIRE EXCHANGE OFFER.
If you want to try an "Empire," as
for our EMPIRE TRIAL OFFER
We will send each of these offers to you for your consideration

If you have only ONE milch cow, or BUY milk in small quantities, we have a small separator, known as the BALTIC.
This is a special Swedish machine adapted for the small mountain farms of Sweden, and at a correspondingly low price, but of high quality


In certain cases, the "Baltic" SepaIf in doubt, write for our BALTIC OFFER.
If you have ONE cow, write for our BALTIC OFFER.

You have a chance to secure cream separators in the above offer which run silently, and run with little vibration The "Empire" runs so easily that it will spin from the weight of the handle alone. The "Baltic" is in a class by itself.
Writ
Write us on a postal, and write immediately while the opportunity in the above offers is held open.
bove offers is held
Write us to-day.

## The Empire Cream Separator Co. of Canada, Ltd.


[^0]:    nakes Genasco so enduring and economical for all. your

