

## OUR CLAIM

Every "NEW-WAY" Air-Cooled Engine is guaranteed to cool and deliver its rated power in any climate for any length of time.

Give it the ordinary care necessary to any piece of machinery-.. overheat it---and you will get your money back and big interest.

Ordinary care on our engine means less care than is necessary on ordinary, or water-cooled engines.


Don't even think of buying an engine until you have seen the "NEW-WAY" in operation. wite for catalogue dg 12 which tels how to make money. The "NEW-WAY" Motor Company of Canada, Led., Welland, Ont.

## THE AYLMER BRONZE SPRAYER



Won highest award at St. Petersburg, Russia, over all Canadian, French and German Pumps. Also secured first place at Manchester (England), Toronto, Ottawa and Halifax.

SPRAYER NO. 2.-OUTFIT D
Being Outfit A, ten feet of hose, with couplings attached, two Bordeaux nozzles, one brass stopcock, one Y , one long iron extension rod, without barrel. Price
lined bamboo
Add
Wd......
SPRAYER NO. 3.-OUTFIT E Being Outfit A, two lines of hose, ten feet each, with couplings attached, four Bordeaux nozzles, two brass Y's, woo brass stop-
 With ot iron. Price. ........................ $\$ 25.50$ With barrel.
Our Catalogue gives full information as to sizes, capacity, equipment, etc. Write us for one. If
The Aylmer Pump \& Scale Company, Limited
AYLMER, ONTARIO
Sprayer No. 2-Outfit D


## \$15 and Upwards

Whether you have but one cow, or if you have fifty cows, we have a high-grade Cream Separator, suitable for
your requirements, at a price you can afford to pay We send you che trial my where in Ontario or Eastern Canada, and prepay the Height Thoroughly guaranteed LOW PRICES. EASY IMMCNTS. Yo take no risk whatever, for you settle
soon in "ircular "A" today, giving particulars of
lar "A." today, giving particulars of

(1H) YCMHNE CO., Brighton, Ont

Change Your Seed
Below will be found a list of Seed Grain carefully
Selected; nearly all grown in Wellington County Farmers wowing a change
of Seed would to look
this Ad. over.
"The Best is the cheapest--get the best regardless of price""




 8.A.C. Black Barley (Hulless). $\$ 1.40$ Bush. ( $60-1 \mathrm{it}$
to Bush.); Wild Goose Wheat, $\$ 1.35$ Bush. Timothy Seed, $993 / \%$ pure, 84.00 Bush., Red Clover Nags included.

| Alfalfa | No. |
| :--- | :--- |
| Alsike | No. |
| $1 ;$ | $\$ 9.00$ |
|  | $\$ .00$ |

All Prices are Ex Warehouse, Guelph. Bags Extra Cotton, 25c. each (except where

Terms: Cash with order. if Will not send c.O.D." Goods can be r

Ask us about Seed Potatoes also Corn. A carload of Oil Cake just arrived, $\$ 1.60$ per
bag; in 5 bag lots or over, EX warehouse.

HEWER SEED CO.
90 Macdonnell Street, East GUELPH

ONTARIO
"Mention this paper"
SHORT DATE MORIGEGIS
WE INVEST SAFELY, SMALL SUMS OF
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AND NON-RESIDENT INVESTORS. AND NON-RECUE BY CHOICE RESIDENTIAL,
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without charge. Write for Booklet. A. L. MASSEY \& CO.

better write us for price of this machine. We have
the largest line of concrete machinery of any firm in e largest lie of corn your requirements. London
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Concrete. The Concrete Machinery Co., Dept. B. London, Ont.

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Farmers of Ontario!
Are you requiring help this Spring? Parties of young men and boys are now
coming forward. For full particulars apply BOYS' FARMER LEAGUE, DRAWER 126, WINONA, ONTARIO Wood Saws
 prices.
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fro

# Two Elements You Can't Eliminate FIRE LIGHTNING! 

> (1) ESE are indeed dreaded words for the country dweller where fire protec. tion is not available.

But the Farmercan add to his peace of mind, reduce his insurance premiums, and insure absolute immunity from fire and lightning, by roofing his barn with the big "George " Shingle ( 24 " $\times 24$ ") and his dwellings and smaller buildings with the "Oshawa" Shingle ( 16 " $\times 20$ ") of identical pattern and design, and by using Pedlar’ṣ "Perfect" Metal Siding for his walls.


An All-Metal building, properly connected by conductor pipe or wire to ground cannot be damaged by lightning.

Nor is there any place where engine sparks or other fire can lodge and do serious damage or complete destruction.

PEDLAR'S METAL SHINGLES are your sure protection from any kind of elemental damageWind, St orms, Rain, Snow Hail.

They give greater service and satisfaction at no qreater cost. Send for our Bulletin L.F., on *Farm Buildings and Lightning" with references from authorities and Insurance officials, showing reduced cost of insurance on all-metal Buildings.

DROP US A LINE GIVING SIZE OF BUILDINGS, AND WE WILL SUBMIT COMPLETE ESTIMATE OF COST ON METAL SHINGLES, CO'RRUGATED SIDING, "SUPERIOR" BARN VENTILATORS.

## The Pedlar People Limited O:hawa, Ontario ESTABLISHED 186 r

[^0]

## CLOVER SEEDS

government standard Grown in County of Haldimand Seed to satisfy you on arrival, or sendes good until next issue. ALFALFA, Home grown, $\$ 11.00$ Bush ALFALFA, Northern grown, $\begin{aligned} & 8.50 \text { Bush. } \\ & \$ 8 .\end{aligned}$ RED CLOVÉR - \$10.50 Bush. TIMOTHY - - - $\$ 4.00$ Bush.

Cash to accompany extra. Ask for samples if necessary. If you want lower grades enquire.
We also make splendid Fa mily y four and have Feed for sale
The Caledonia Milling Company, Limited

The CULTIVATOR That Can't Be BEAT


This Testimonial Will Tell You.

Dear Sirs:
I have found your Sprin Tooth Cultivator a first-class implement for the cultivation of all ordinary farm, garden,
root and vegetable crops. It has also given satisfaction as
a potato digger.

J. Mahony,
Stoney Creek,

THE HALL ZRYD FOUNDRY CO. LIMITED hespeler



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for over half a century
Ourlarge and beautifully illustrated CATALOGUE FREE
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FENCE FOR SALE



## QUALITY

EFFICIENCY
are main essentials in a piano

## socermanm BELL PIANO

```
We take the time and pains to build
``` BETLer are many, zood faturee in the 40. Intormation or it our (free) catalogue No BELL PIANO \& ORGAN COMPANY, LIMITE guelph


Potato Profits depend largely on how the crop is planted.
Every kkipped hill
sid a loss in time. fertilizer avery soll. Every diouble wastes valuabere seed.
It means \(\$ 5\) to \(\$ 50\) per acre extra profit if all hills It means \(\$ 5\) to \(\$ 50\) per acre extra profit if allh
are planted, one plece in each. That is why MDY MAY 100 Per Cent

\(\qquad\)



\section*{BHUROH BELLS}

GIIIMES AND PEALS
\(\underset{\text { Memorial Bells a Spechlity }}{\substack{\text { muly warranted }}}\)


\section*{DE LAVAL CREAM SEPARATORS}
are not the mail order or agricultural implement kind
THERE ARE SEVERAL KINDS OF CREAM SEPARAtors, but De Laval Cream Separators are of a kind
at puts them in a class by themselves. LAL \(C\) a lass by themselves.
D \({ }^{\text {E LAVAL CREAM SEPARATORS ARE MADE BY }}\) best materials, by the best workmen, and in the best shops of the kind in the world, all devoted solely to the production


THEY ARE NOT THE KIND OF tract for wherever they can be made cheapest wherever they can be made implest, nor the kind that agriculalonent concerns manuacture along with corn shellers, plows, mowers, reapers, threshers,
gasoline engines, cow gasoline e.engines, cow
milkers and the like, none of which begins to compare in mechancal quality or refinement with what the cream separator shouldDELAVALCREAM Separators a re the kind th at 98 per cent of the creameries use, where any loss in quantity or lack in
quality of product means business ruin, as it always has ultimately to every creamery that did not replace an inferior separator with a De Laval. PRECISELY THE SAME KIND OF DIfferences exist in farm as in factory separators and precisely the same reasons apply to the use of cream separators on the farm farmer as they do the creameryman where the farmer has other crops and products to rely upon.
THE DIFFERENCES BETWEEN DE LAVAL AND the mail order and agricultural implement kind of cream separators are fully set forth and made plain in a De Laval catalog to be had for the asking, while the machines themselves best tell their own story placed side by side, and that
every De Laval local agent is glad to afford any prospective buyer the opportunity to do.
imply write the near
Fill out the coupon or give information asked for in a letter or postal and get this 72 page book free
\begin{tabular}{|c|c|}
\hline DELAVAL & De Laval Dairy Supply Co. Ltd., Peterboro, Ont Please mail me, postage free, your Dairy Hand book \\
\hline \% & I keep___ cows. I sell cream, make butter, sell \\
\hline & milk (which? \(\longrightarrow\) The make of m \\
\hline & Separator is \\
\hline & Name \\
\hline & Prow \\
\hline
\end{tabular}

De Laval Dairy Supply Co., Limited MONTREAL PETERBORO WINNIPEG VANCOUVER 50,000 Branches and Local Agencies the World over

The Farmer's Advocate and Home Magazine Published Once a Week. \$1.50 per Year in Advance.

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A Garden of Beauty and Fragrance

WHETHER you love the dear old Marigolds, Heilotrope, Nasturtiums and Petunias - the gorgeous Poppys and Asters-the many hued Sweet Peas-the heavy cented Nicturesque Ricinus -you'll find in Ewing's Cataogue the particular varieties which will make your flower garden a real satisfaction.
Ewing's Reliable Flower Seeds have been delighting an lovers for more than fory years. Write for Illus rated Calalogue to-day, and if your Dealer hasn't Ewing: Seeds, order from -

THE WILLIAM, EWING CO. LIMITED,
Seed Merchanta, McGill St., MONTREAL.

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Canadian Service
New Magnificent Steamers. ANDANIA ALAUNIA ASGANIA AUSONIA
One Class (II) Cabin. Low Rates. IMMIGRATION DEPARTMEN FARM HELP SUPPLIED No Charge Made.
Write immediately, stating whether
married couples, families or single persons
 State wages and conditions. Requisition forms supplied upon application. The Cunayd Steamship Co.,Ltd. 114 King Street West, Toronto. These oats are grown from O. A. C. seed and have.
bben specially selectedo our our farm for year. We:
suarantee them free from noxious weed seeds an guarantee them free from er bushel
barley. Price 80 cents per bushel
bushel orders 75 cents, bags free. bushel orders 75 cents, b,
W. G. STARK \& SON,


\section*{EDITORIAL}

The man who thinks decides. He who does not think drifts.

Get to the bottom of all questions worthy of jour thought.

A few minutes with the monkey wrench now may save you half a day in the seeding field next month.

Be ready when the land warms up to the temperature necessary for seed germination and plant growth.

Consumers should not blame the farmer for all the high cost of living. Wars and rumors o wars have played their part.

If the market price of grain does not justify growing it for sale in the raw state, feed it to oome class of stock which will make it pay.

What was your experience during the cold spell with silage freezing around the walls of the ooden, solid cement-concrete or hollow block ailo, as the case might be?

Time was when governments were expected to originate and execute their policies. The modern way is to turn the task over to a commission and then supply the funds.

Having skinned most of the coops in the world's poultry yard, the Armament Trust are now smacking their lips over Canada as the next fine, fat goose to be picked to the bones.

If the United States alters the Panama tolls rules, as seems probable, it would not be good Judgment on the part of Great Britain to refrain
Prom exhibiting at the Panama Pacific Exhibition.
It you want agything trom the oovermant. there are at least two ways of getting after it, the quiet lobby of Sir Jingo McBore at the Capital and the spectacular special train with a thousand delegates.

There is alway's room for improvement. Give the 1914 crop a better start than the 1913 crop had by sowing cleaner, purer and plumper seed, sowing it earlier if the land is ready, and sowing on better-prepared soil.

A Western farmer writes: ". For most of us, now is the time not to buy, nor yet to sell, but to give extra care to and make the most of whatever live stock we possess.
at on the farms of the East?

The Mail and Empire in an admirable editorial article describes the recent message of President Wilson in favor of repealing that portion of the Panama Canal Tolls Bill discriminating in favor of U. S. vessels as "one of the noblest deliverances ever made to Congress by the Chief Magistrate of the United States."

\section*{Soil Exploitation or Farming.}

The cultivation of the soil for food products or any other useful or valuable growths of the field or garden is a dictionary definition of agriculture, but all agriculture is not good cultiva-tion-farming that pays. There is soil tillage or so-called farming practiced by thel wholesale which is nothing short of exploitation, soil rob bery, mining the land, or the utilization of schemes intended to work to the advantage of the farmer without regard to the rights of the soil with reference to future plant growth. If a business man is in business for several decades he does not attempt to exploit those with whom he deals. He does not attempt to get large amounts of his customer's money without giving something of value in return. Strictly selfish utilization of business opportunities would quickly cut off the various channels of trade through which the business is fed and maintained. In short, exploitation means ruipation. The same thing holds true on the farm. The farmer is or should be a business man and like the manufacturer, the wholesaler or the retailer he must plan to give something of value in return for the crop which his fertile fields yield him. The supply' of plant food is not inexhaustible as many of those who yearly scratch the back of old Mother Earth and sow their seed with little thought to the de mands of the crop seem to think. Continuous cropping cannot keep cash coming in unless fer tility is supplied in some manner. The plant must have sufficient food or it will develop a sickly, withered stock with a short, partially filled head-the unprofitable effort of the degenerate plant to reproduce itself. A half-starved horse or a half-fed man is a failure and a crop truggling if a mall amount of plant food much it in an urm it also a failure cost more in many cases to prodaco arer in the a poor crop of grain than it brings at. market prices. Then what is or sole in the exploit. Grow crops not for sale in the nat state, but manuractured to the highest degree of which your plant is capable. If it is not equip ped with tho cha tha y.l. artic. What it yields best returns, then equip it. What does it need to mall and change it from an exhausted, soil-fertility mine, operated on a small scale at small proft or a loss, to a thriving plant turning out large quantities of finished products at a profit-a real farm? The requirements are first a thinking man as working manager and then good live stock as the most efficient machinery to manufacture the grain, hay, roots and fodder which the farm has produced into high-priced meats, milk and dairy products and at the same time to so utilize the plant food which these crops have taken out of the soil that the major portion of it goes back to replenish the fertility of the land. With this are associated suitable ro-ing-a crops and sufficient and jeen thorough cultivation in place of continuous cropping and merely scratching the top of the oonl. This is farming. Are you farming or exploiting your soil?

\section*{Cultivation and the Crop.}

Every man who is desirous of success on th and paints a prosperous picture in his mind's eye at seeding time of wide acres of heavy-headed golden grain nodding lazily in the mid-summer heat and imagines himsell sitting on the seat of the self binder urging on his three-hprse team an a thrill passes through his system watching the endless canvas elevate its deep layer and the discharge arms clicking ofl the long, bright sheaves bearing the bushels of precious grain. In his enthusiasm he is prone to depend too much upon wind and weather, sun and molsture, the natural fertility of the soil and the action of the airall very uncertain. He reade that crops should be in the ground early and he seos his neighbors making all haste to be the first "done seeding." The spirit of spring is contagtous and imbues everyone with the craze for speed. In the rush everyone with the craze for speed. In the rush the car poin ing , in Pollion ang la in por makes the crop in many cases and the lack of it ruins it. For the salke of an extra day or two do not, under any circumstances, work the land before it is ready. Many a field has been so badly run together through this mistake that it baked and the crop yield was a disappointmont. Light cultivation is generally favored for spring crops on fall-plowed ground, but the light cultivation does not mean slight or slighted cultivetion. A seed bed must be prepared if a good crop is expected and what will produce a good seed bed or good tilth on one field is often not sufficient on another. Cultivate, disk and harrow until the soil is thoroughly pulverized to a sufficient depth to make a finely-puiverized bed for the grain. If the condition of the soll does not suit you aiter the usual number of strokes with cultivator and harrow, go over it egain. It will usually prove very profitable. The young plant requires fine soil with plant food rendered easily available in order to get the proper start. A poor start is generally a poor finish. The old drag harrow does not get the credit it should and is not used to the extent that its fmport ance warrants Try it ahead of the cullivator and an extra stroke or two after the diek or nud ully ally demands quick and thorough action it is seeding. Do it rapidly, but thoroughly. "Scratching it in' should not be tolerated. Seeding slighted moans a light harvest.

\section*{Try an Experiment.}

True it is that our govarnents are expending large amounts of money to equip and maintain agricultural experiment atations throughout the country, and true it is that the average farmer has little time to devote to experimental work, which is generally rather too costly for the individual, if carried on on a large scale: however, no matter how many experiment stations we may have, they can never become numerous enough to do certain work for individual farms. No farmer should attempt to make his farm an experimental farm. He should be past the experimental stage in almost everything, but he is in a good position to conduct each year
'The Farmer's Advocate AND HOME MAGAZINE.
THE LEADING AGRICHLTURAL

\section*{published werkly by}
the william weld company (limited)
John weld. Managrn
Agente ior "The Farmer's Advocite
the Famers advocate and howe magazing

 TERMS OF SCBSCRIPTTON- -In Canada, Englend, Ireland,
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12. WE invite farmers \(t\) to wite us on any agrieultural



ALL comminications in reference to ans matter con-
 Addresis-THE FARMER'S ADVOCATE, the william weld company (Limited),
which he is
be of value to him in future.
As an instance of the importance of the individual farm experiment, we can think of nothing his soil requires without at first testing it out, and we would urgently advise many of our readers who have an idea that their farm needs commercial fertilizer or is deficient in some one or two of the ingredients necessary to plant growth to make tests on their own soil. These need not be very exhaustive, nor need not require much time or experience, in carrying out. If care fully done, the owner knows just what his farm requires and has not to take the advice or coun-
sel of others. While not necessarily' exhaustive, sel of others. While not necessarily' exhaustive, all experimental work must be accurately carried
out or it is of little or no value. Accuracy and thoroughness are the keys to success.
There are certain varieties of farm crops which have been exhaustively tested out at the large experimental stations and have proven superior for general farm practice to other varieties. It adds interest to the work of farming to staple cropese leading varieties of one of the find out which does the best on your own type of soil. Experimental work will tend towards thoroughness in everything that is done on the every farm in this country. There is too much haphazard work on most farms and guessing too often takes the place of actual facts. No farmental work, but all should do a little to to prove their own conditions and aid the experimental stations in reaching conclusions. Soils vary, seasons vary and methods of cultivation
vary. Study these on your own land.

\section*{Nature's Diary.}

By A. B. Klugh, M.A. the pines.
here the cold gray granite gleams We stood in our serried ranks But now we're mostly timbers,

And this is the song of the Pines
As the wind sways them backwards and forth The kings of the forest primaeval,
The giant Pines of the north.
In the winds of many winters Have our hardy branches swayed Summer's gentle zephyrs playe

And this is the song of the Pine
As the wind sways them backwards and forth The kings of the forest primaeval,

In springtime in the northland
In the shadows that we cast We held the snows of winter
Till the river's flood was passed.
And this is the song of the Pines
As the wind sways them backwards and forth The glant Pines of the north.

Thus the fight of time unheeding
We stood through ages pas
Now before the axe and fire
Our race is
And this is the song of the Pine
As the wind sways them backwards and forth The kings of the forest primaeval,
The giant Pines of the north.

The Pines are an ancient race. Whon the seead-plants were evolved from their fern-live an-
cestors the Coniferae were the first types to ap-

pear, and the Pines are a branch of this family They have persisted to the present day in many stand adverse leaves are adapted to withstand and they are also provided with a heavy cuticle (outer covering of the leaf) and sunken stomata (see Fig. 1), which renders them immune to the effiects of dryness. Their branches being placed them to bend eak, under a load of
To the lover of the woods there is something open aisles, free from underbrush, the rest, the odor, the gentle sighing of the wind through the
branches. The way in which our Pine forests have been devastated is one of the crying shames of clviliz-
ation. Where the forest room for prosperous farms this destruction make of course, perfectly legitimate, though even in and case the clearing was often too wholesale and many farmers to-day would find a piece of crop than any other. But ane a better paying land was stripped of its best where arid, rocky and converted into a dreary waster, burnt over tion was nothing short of criminal." "Willful
waste brings woeful waste brings woeful want," and we see the want of good Pine lumber to-day. Only the pinch of servation, has forced upon us the idea of conmoment too soon. Lumbering has arrived one a destructive industry, henceforth it must been constructive one as well. Our forests must be a treated as mines; they must now be treated as
farms. We have in Canada
Pines, and the following a good many species of one to readily identify the dife will enable an

KEy to Canadian pines,
Eastern Specie
Atrobus). Leaves 5 in a bundle-White Pine (Pinus
B. Cone scales unarmed.

Cesinosa): Leaves \({ }^{2}\) to \(6 \frac{1}{3}\) inches long-Red Pine (P. resinosa)
(P. banksiana
k Pins
. Leaves anes armed with a spine
CC. Leaves in 3's \({ }^{\prime}\) - Pitch Pine (P) rigina)
Western Species
A. Leaves 5 in a bundle.
B. Cones long-stemmed-Silver Pine (P. MonBB. Cones short-stemmed.
C. Leaf bundles scattered-Limber Pine ( \(\mathbf{P}\). CC. Leat bundles in crowded clusters-White bark Pine (P. albicaulis)

AA. Leaves 2 or 3 in a bundle
B. Leaves over 6 inches long-Yellow Pine (P) BB, Leaves 1 to 3 inches long
C. Leaves dark green, slender, tree 5 to 25 feet in height-Scrub Pine (P. contorta) 120 feet in height-Lodge-pole Pine (P) murre to ana).
CCC. Leaves gray-green, stout-Jack Pine (P)
banksiana)

\section*{Good Rural Homes Keep Boys on} the Farm.

Having good rural homes is the mainstay of our existence as a people. In the home beginis the lives that make or destroy our social, moral political and even physical perfection. Wrecks do not often come from well-ordered homes. Ad
boy or girl who is well nourished, clothed and made comfortable and ful and sane philosophy that cones from a mother's love and a father's healthy protection, will rarely prove a burden on society or become an undesirable citizen.
The earth was created by a Power from on
High. Nature has done her a P High. Nature has done her part, and to man has been given the duty', the right, the priviloge of
developing it. Tap the maple tree and by a process of evaporation we have maple syrup: plant an apple tree and by cultivation, in place of native fruit, we have the "Wealthy," the "Snow," and the "McIntosh",'; sow the grain,
and we reap the harvest tenfold. and we reap the harvest tenfold. Development means, men to labor and men to think. We read find them. Trees do not grow into houses, cattle do not feed themselves, and it is useless to sow seed on barren fields.
Poetical language, silver-toned orators with beautiful landscape portraits and all kinds of theories, may seem very nice, but it is work that
keeps the wheels from schoolhouse platforms, especially at Institute ineetings, we listen to men with much experience, and more ancestral kid-glove theory, Iecture on "How to keep the boys on the farm." An Irishman would answer, in as many words, turers may be gll yeny there. Lectures and lec. turers may be all very good, but the lecturer is
often as a man, his father, roof on his grandfather's building and the lee ture, however good, is only the fintohing touch
to the picture. The parents are the brush af
paint, and the canvas is the boy and girl themselves.
To keep anyone anywhere there must be some thing to appreciate, and to make something on
the farm worthy of appreciation is the secret of making farmers. The country favors high aims and lofty endeavors. Under the sunrise purity spirationoneladen almosphere and with the inspiration from the lives of neighbor-folk, the country is a heritage fit for kings.
But what do
homes are nothing fut Too many of our rural no excuse for their erection. Houses that hava to protect from the elements. The need of heat, and are often forgotten are subsidiary questions, Many farm housestten in the house planning. girls. They have no rooms they can call their own-no place where they can design, scheme, plan and study-a defect indeed when we consider that our Shorthorns, our Yorkshires, our to in every detail and our Berkshires, are attended ment. Surely boys and girls are of more value than cows and sheep.
To keep their children on the farm different parents have thirirerent children on the farm different
carring. Some provide fine
carring carriages, and the children soon graduate as city
swells on a few dollars a week the farm house across the road. Framed in red \({ }^{-}\)letters and hung on the wall is the proverb Farly to bed and early to, rise, makes a man the whole household is up ut at break of day and which might be bright with reality? Homes

All the reading that comes in is the almanac.
No songs to tearn, ho bokss to read, and what is there in life?
is tisitors may come, but what
the conversation ?
Hens,
horses, cow, cown
 turkeys,
for \(a\) change.
Perhapg one will ask, is not this a higher
moral standard than the cities?
This may be moral standard than the eities?
true, but it it is not the pois may be not to be "as good as," but it is to be the best. to is useless to ask anyone to endure the life some our tear. Estan aish the home, parace aracation within reach of all, create some enduring
attraction, and the problem of keeping boys and atraction, and the problem of keeping boys and Farmers in this Western country wis hold the high position they do in the old coun try. Bankers may handio money and store it but the mary who creates a now make a proft but mer.
tarmer.
In comparing the success of country and city boys in reaching, high positions, the balance is
with the country boys.
Recent statistics comwith the countriy eovs. Recent statistics com-
piled in the United States show that out of 25 presidents, 23 were country boys. out of 45
governors, 41 came from rural districts. cabinet ministers taken into the reckoning, some 126 in all, 1111 were boys reared on farms Hill is interesting to read the opinion of J. J. Hill, of Great Northern
country evironment.
He says
My present home is on a farm, and my princippal reason for making my home there, prather
than at some of the lakes or in the city, ris that than at some of the lakes or in the city, is that
1 have three boys of my own, \(I\) am trying to
to give a fair start in life. I believe there is no end or arguments that livigi bey
the best chance for a a prowing boy. Wrile mek ing the form my home rometimes, works an
inconvenience to me, I realize that the benefits to my children are worth the incorvenience to me of getting in and out between my ofitice and the There is no greater asset for any young man than an idea. Give him a vision of the great
things that can be accomplished upon the farm, things that can be accompiised upon the flarme
of the riches in soil regeneration, of the glories of the riches in soil regeneration, of the glories
of animal productior: and perfection, of the abidIng interest that attaches to alafifa and trees-
aill these visions are lvin around him, like the and these visions are living around him, like the
chariots of old on a thousand hills. The eyes chariots of old on o thousand hins,
that could behold them thent brighten, and the didas streaming forth ris of arriculture to plac farm lite in the position it should be. There is no nobler life in the industrial worrad than that
of the man who does things upon the farm. The
The home should be the feeeding ground for these ideas.
Alta.

\section*{THE HORSE.}

\section*{Get a wide whiffletree made for the in-foal}

The demand for horses in Great Britain was
never keener Drivers should remember that' ""whoi" means .3. Remember that a good gelding is likely to The English Shire, judging from illustrations of prize-winners in this issue, still carries plenty
of hair.

Gradually increase the grain ration to the
working animals until they are on full feed just working animals until they
as spring's work commences.

If the colts' feet have grown out have them
properly trinmed sults from neglect in this particular
Let the in-foal mare do a share of the spring's work. Properly handled ske will be the better of
it, and so will the foal. Give her the doubletree advantage.
The breeder should read the enrolment certiflcate of the stallion he uses, but should not be
blinded by it. Look over the horse. If he is not right do not use him
Leave the colts in the paddock or farm yard as many hours each day as possible. The
weather is row, for the most part, moderated to wuch a condiow, for the most part, moderated to
shat the colts are better out
than in.

It is not long until June. Is the paddock
prepared for the stallion to take exercise, or how prepared for the stallion to take exercise, or how
many miles a day is he led ? A pood breeding season denends more than many think upon the regular exercise of the sire
same stable and one should abort, isolate her and the abortion is cont disinfect. Whether or not odor accompanying it often causes other mares

Not for several years have the horse marke conce between the big, heavy sound so wide a differand the commoner, lighter, coarser-limbed hors Competition must eliminate the inferior animal and it is plainer than ever before that only the
best is to find ready sale at the most profitable

\section*{The Foot.}

That trite old axiom, so often heard, about the relative vaiue of the foot to the horse wid
not steal into this short that a horse must have good foet, but they at only a part of a wondertully developed anatomy
which which requires proportion, symmetry and qualit in all its parts before the unit. known as a have been so environed that quality of horse limb was a prime requisite to their existence. Others have been bred for weight, and with it has come a corresponding decrease in that fine texture of bone, so desired by all horsemen. Th foot is not the foundation upon which to build perfect breed, but if such a fantastical accomplishment is ever attained one may rest assured that the feet and limbs will be right.
 Fig. 1.-(a) Side view of an acute-angled fore foot;
\(\begin{aligned} & \text { (b) Side view of a regular fore foot, showing a desir- } \\ & \text { able obliquity, and }\end{aligned}\) (c) Side view of an upright or stumpy fore foot
In figure 1 (b) may be seen the coffin bone, which is the lowest of the series of bones com the coronary bone; the small cannon bone well the lower end of the cannon bone proper. Above and arourd the coffin bone are the sensitive laminae, which consist of thin plates of soft
tissue. A knowledge of the presence of this tissue would dissipate the idea in many a horse man's mind that hoof is one solid piece of intelligen matter, and by so doing elicit more intelligent
care for that part of the horse's anatomy. In


Fig. 2.-Ground surface of a right fore foot; a-b the side walls; b-d, the quarters; c-c, the bars; \(d\) d-d,
the buttresses ; e, lateral cleft of the frog; h, body of the frog; k-k, horny bulbs of the heels.
order to receive the downward pressure of the pad of tissue, called the plantar cushion, is placed beneath the coffin bone connecting it with the sole of the foot. These tissues and bones with some cartilages make up
size, shape, quality and placement are the important points not to be forgotten in a judg-
ment on the horse. The horn of the wall should be thick hard and tough, and ebony-like in ap pearance. The quality of the hoof can usually be told by sight, but the color is not a sale criterion upon which to decide. Some claim the hnrsemen are agreed that a striped hoof is superfor to any solid-s, ridges or cracks, but a be free from wrinkles, ridges or cracks, but a hoof
will often show concentric rings which should
never be marked or uneven. Viewed from the an angle of about 45 degrees with the ground but the hind foot is a little deeper and stands at an angle of about 55 degrees. The whole foot should be round, and the heels wide and of good
depth. In draft horses shallowness at the heels is too frequently a characteristic. The hind oot is meant for propulsion, while the front foot must withstand considerable concussion.
The sole should be slightly concave and the frog should be large, healthy and elastic, for upon it rests the responsibility of protecting the
foot and limb from severe concussions. Avoid horses whose feet are small, brittle, flat in sole, shallow of heel, spongy and weak. They can never do good service, for they are defective in a animal.

\section*{Army Remounts.}

Thoroughbred sires are being distributed throughout the country for the purpose of rear for the remount demand. It is rumored slso that Hackneys and Standard-breds are likewise to receive the approbatior of the Dominion Government to promote this desired end, and there is a probability that some breeders might, in a moobtain one of these high-selling horses order to be borne in mind that the heavy-draft horse does not possess the life and stamina required in order to qualify for the army, and, as a natural consequence, the heavy type of mare with the cart correct form and characteristics to an offspring. The result will beian undesirable, of little value or any purpose.
The blood of the Arab horse is, to more or less extent, prese to judge the value or suitability of an anima or the saddle. The Thoroughbred, as produced in England, is of the, race course type, and must get an animal that will carry and man of 180 or 200 pounds. The Thiroughbred, of course, is the sire that should be used to get a remount, and e of all horses resembles most the Arab in saddle characteristics. France and Hungary lead Anglo-Normand, a dual-purposes, and there the prominence. In Hungary particularly, the Arab. Thoroughbred and Hackney have been combined into a satisfactory saddle-horse, but the Anglonot, properly speaking, a sardle-horse, but some infusion of this blood has brought good results hoth in riders and drivers. Bellfounder, the sire Hambletonian 10, was Mure and grandsire of Hambletonian 10, was numbered 55 in volume 1
of the English Hackney Stud Book, and to him is given much of the credit for the speed of th Hambletonians. In the days of Bellfounder, however, speed was an important feature, but in the time which has intervened some of it hai Whatever the development of the Hackney hai been throughout these years, they are still capable of imparting valuable blood to the army emount horse.
The saddler is not necessarily a pure-bred horse apable of imparting valuable blood to the army ordinary farm horse of the cart-horse type wil not give a remount of value, and if they are not valuable they are a particularly useless piece of property. What is required is the general-pur bred and Hackney blood. She, crossed with Thoroughbred of the right kind, should produce a saddle-horse fit for service.

The colt which is to do his first hard work during the forthcoming seeding period should be given a little extra consideration. There is alprevious to the opening up of spring, and it would be advisable to place the colt or colts at light work each day, keeping them accustomed
to the harness and also keeping them exercised and gradually working them up to such a condition that they will stand the more strenuous work of cultivating the soil. The first day or two on the land they should not be rushed, in fact none of the horses should be pushed to their have been given. Very often the spring opens up warm, and the horses, with their thick coats not shed, suffer greatly from the exertion to which
they are not accustomed. We have known of they are not accustomed. We have known of good work horses being injured to such an extent was reduced for some time afterwards, and in some cases we have heard of death resulting from
this cause. Colts are more likely to be infured this cause. Colts are more likely to be injured given the lighter end of the work. Give them the easy end of the whiffletree, and rest them the easy end of the whiffletree, an
frequently and for short intervals.

\section*{LIVE STOCK.}

\section*{Warm pens are necessary for the yeaning ewes.}

The pigs will enjoy access to an open yard hese sunny afternoons.

This is the season when the good shepherd makes frequent trips to the sheepfold.

The success of the lamb crop depends largely upon the attention of the shepherd.

There does not seem to be much danger of the hog market becoming glutted in the near future.

What are you planning to do with your spring crop of calves? Are they not too valuable to be slaughtered for veal?

Keep the ewe and her newly-born lamb separate from other sheep for a few days. Espe cially is this necessary with young ewes.

Too much bedding in the pen of the sow about o farrow is worse than not enough A small supply of chaff is all that is necessary.

Plant some pasture or soiling crop for the pring litter. The greatest source of extre profit in spring litters over fall litters is in the opportunity for free range and the use of green leed.

If you are offered a few good stockers or eeders at what looks to be a reasonable price do not hesitate to buy them. It will likely prove more profitable than if the transaction were de cerred until next October or November.

Canadian Guernsey Breeders Meet. At the annual meeting of the Canadian Guern-
ey Breeders' Association, held recently at mherst, N. S., the President, D. G. MacKay Pictou, N. S., spoke very optimistically regardng the development of the breed in Canada. Al hough the workings of the Association are at he present time limited to the Maritime Proinces, ellorts are being put forth to combine the reeders throughout Canada into this one As ociation for the advancement of the Guernsey breed. There are four large breeders in British Columbia and others in the different provinces of the Dominion who register their stock in the American Guernsey Cattle Club books. These, he President said, should be brought to record aore influence to further their favorite breed in Canada.
Like all other Presidents of all other breeds Mr. MacKay referred to the heroes and heroines of the Guernsey blood, and directed attention to the fact that the four-year-old record for all breeds is heid by a Guernsey cow, which in that period gave no less than twenty-six tons of milk, and almost one and one-half tons butter fat. Besides that, at the only contest ever held in America, where all dairy breeds were represented, he Guernsey headed the list in the three following points: First, most net profit per pound of or quality ' in the butter. Third, the highest core for quality and color in butter.
The report, of the Secretary shows an increase n registrations amounting to ninety over last year, making in all 723 animals recorded in the large was discussed, and the resolution, as adopted by the breeders assembled at Toronto uring the first week of February, was approved with one or two exceptions where amendments were
made. The resolution will be forwarded to the Provincial Governments in Canada. to ail The following officers suing year: President, D. G. MacKay, Heath Bell, N. S.; Vice-President, Hugh A. Dickson, Cen-
tral Onslow, N. S.; Directors, E. J. Johnston. tral Onslow, N. S.; Directors, E. E. J. Johnston
T. D. Bates ; James F. Roper ; J. Frank Roach R. M. Jackson ; Auditor, R. Robertson, Amherst N. S.; Committee "A", D. G. MacKay and H. W. Corning; Director to act with President, Vice President and Secretary on Executive Board,
J. Johnston ; Secretary-Treasurer, Howard

Determining Inferior Milking Qualities of Ewes. Editor "TThe Farmer's Advocate"

In every flock of ewes individuals can be found that possess marked ability to convert food into ourishment for their young, while there are care and feed that do not properly nourish their offspring. Owing to this variance in the milking qualities of sheep it becomes of great moment


Lorna Doone.
Champion mare at the Shire show recen tly held in England. of wool produced, but to see that each individua herit their weak qualities and perpetuate the fault possesses the ability to consume a liberal amount close attention should be paid ta the their lambs of food, and to convert a necessary portion into vigor of each lamb. Ewes that do not appear nourishment for supplying materiai for bone and is dependent upon its mother No period offers such excellent opportunities
determine the inferior milkirg qualities of ewes as when the lambs are obtaining all their nourishment from their motkers. The thrift and qualities of their dams. Some things, however,


Monnow Drayman.

\section*{irse-prize Shire stallion, London, Eng., 1914}
ood not of in estimating the rightly develop the ly the trouble may be directly caused by in proper care. Those who have given their ewes good reasor to believe that inferior have qualities may be due to some other cause milking the which they have received.
After many years of handling sheep of ali agea
on my owrs farm I am fully convinced that the fuenced loy the care the are quite largely inambing the first time. When yearling ewes when allowed to run with older sheep there is danger of their getting crowded away frcin the feed rough and not receiving the amount of food they ystems. I make it a practice to upon their yearling ewes from the rest of the flock, and give them additional care during the period of prea nancy and while suckling their young. If yrounnancy and while suckling their young. If yount eason of suctling thes season of suckling their
offspring, their entire milking system become trained to a certain roducing capacity that ermine ost sure to do qualities later in life.
Flock owners should act hastily in cull ilking their inferior he yearlings. As eneral rule the milking apacity of a ewe can be accurateiy estiears old or she is \(t w o\) ing her second while rear ilking qualities heep are characteristica eneration fom ont It is, therefore another. ant that special impor ion at this time be the mill to determining miking qualities in eserve ewe lambs inds to oserve ewe lambs fro
replenisk his flock
eples hock.
we lambs from ewe that are inferior milk eny is very likely to in be suckling healthy, robust lambs, should bear marked, and later in the faH culled out along nine ewes rambs. Last season I disposed of they did rearing their second lambs, because riving them respond to the care and feed I was spotted, and unave three more in my flock this season than last they produce better lambs fall.

I will mention some
very common causes that may bring in inferior milking qualities
in ewes. In the first in ewes. In the first excessive quantity of carbohydrates during the time the ewes are carry-
ing their lambs frequenting causes a stoppage of the milk flow immediato ly foliowing parturitiol-
Garget very
frequenty Garget very frequently attacks ewes, and con-
sists of inflammation of sists of inflammation or glands. Ewes that are heavy millk producers suffer most, a a \(d\) it is, very common that the
milk flow becomes ma milk flow becomes It is very seldom that ewres that are attacked by inflammation of the udder fully recover normal
condition without the best of care and feeding. Inferiormilking qualities may be a direct outcome of insunc the nourishment during is of pregnancy. If period of pregnancy. any female, when mat ing preparations to not receive the proper kind of food in sufficient
quantity to not only quaurish her entire body nourish her entalso to
properly, but a is carry.
young she properly, but is carry-
young she is
will sooner or later rightly develop the become manifest eithe birth or in her milk system later on. Poor
milking qualities may be directly traced to some slight injury of the milk directly traced to some slight injury of the milk glands during the wean-
ing period.
lame farmers when they wean their lambs simply separate the lambs from the dains,
ewes. This is where numerous instances of in
ferior milking qualities begin. Any one of the above causes may result in the ewes producing his flock the best possible care at ail times.
No matter whether one is breeding pure-bred
or grade sheep, he will find it of much importance o devote considerable attention to determining the milkirop qualities of his ewes during the time the lambs are depending upon their mothers assured that he has plenty of room for improve ment, no matter how well or kow long he ha been directing attention to the im his flock along this particular line.
\(\begin{aligned} & \text { Johnson Co., Ill. } \\ & \text { W. H. UNDERWOOD. }\end{aligned}\)

Are Your Calves Neglected? It is surprising how little attention some this true of their yourg stock. Especially is in a good many districts to fill the stables with carger cattle and other classes of stock, and crowd the calves into small, dark, dismal, dirty the best of health and growth is impossible Too many people think that any old place does for the calves, forgetting that the youngsters are matured as rapidly as possible, and at th smallest cost in order to make a reasonable
profit on them. In many of the old-fashioned stone stables. with about one-tenth the light whick they should have, one wonders at finding the calves in the darkest stall at the end or tied perhaps in a corner behind the cows and receivthe cattle in the herd, wher to do them justic they should have the lightest stalls in the stable feed and large box stalls, be fed on the best and their portion of the stable kept even The spring days are almost calves would be much the better ofe when the housing farm yard. We do not favor the clun weather is such that stock, especially when the cold or storm out of doors. Let them out the and see how well they will the middle of the day well-bedded farm yay or around the remnant the the straw stack. It is not well to let the calves, accustomed to close housing during the winter get chilled, but if judgment is used there is very day and leave them out a short time at find gradually increasing the length of the play hour

\section*{Making the Calf Hornless.}
another column in this issue there appears Yards marticle from the Toronto Union Stock
Yanagenent on the subject of dehorning cattle. It will be remembered by readers of "The Farmer's Advocate" that some two years ago dealers on the Toronto market made a rule,
Which was to come in force April list, 1914, that all hored cattle appearing on the the Toronto mar-
ket would ket would be docked \(\$ 2.00\) per head. It would seem from this article that the dealers are likely to make some change in the regulation. They
are now asking that the tips of the horns of all
cattie cattie be sawed off before shipping. Whether or
not the rule. as formerly laid down, comes into effect the fact remains that where cattle are bred and raised for beefing purposes or even for dairy
purposes and not for sale as fancy stock, they The proper time to treat the horns is whe causes no pain to the animal, and no setbeck time do it at this time. Get a stick of caustic potbottle or jar, and when applyirg wrap the end of it carefully so that none of it is smeared on the whands. The best time to apply the caustic is when the caif is from four to nine days of age, However, we would advise attending to the mathair off around the of the calf's life. Clip the the caustic pencil and apply it to the scur until it turns white. Be careful not to allow any of or to coming in caustic to run down the calle's face
or with the skin around the
scur. if properly applied the calf dues not suffer from it, and it does no harm whatever. \({ }^{\text {a }}\). Kemember do months of age and then condemn the caustic as and is much. It only takes a minute or two weeks four days old than when two or three weeks old. It will save a good deal of hooking
and bruising of the animals to have them all deare fresh. Right now when so many of the cows time to commence this operation if it has never

The Sussex as a Breed. southern counties of England, which has never bained anything like popular in America nor even hold in Canada. In 1891 a few head were imported oo the Agricultural College at Guelph, but since seldom do any of their progeny come un at very selacm do any of their prog
stock shows or exhibitions.
formition and they are noted for their beefy conIn 1885 at the American Fat Stock Show a year-


\section*{A Successful Sussex Sire}
ling Sussex steer received the class prize on the butcher's block, and came within one vote of winning sweepstakes. They are very good grazers, ford. Their early maturing value has been em phasized by some, but it is doubtful if they are as good in this respect as the aforementioned and Herefor Sussex is associated with the Devon centuries. They were formerly bred for draft purposes, and used to till the soil.

\section*{A Record Board}

\section*{Editor "The Farmer'}

There is no doubt about it but that it pays to find out how few attended to this matter in any istisfactory manner whatsoever. We were
having \(a\) discussion regarding the profit to be having a discussion regarding the profit to be
had from feeding cattle for the paarket, and I had from feeding cattle for the parket, and
was persuaded that I skould have no difficulty in ascertaining what my neighbors were doing in this particular. To my great surprise a very
mmall per cent. of them could give me ever small per cent. of them could give me ever a
relative estimate of their profit. what their bullocks cost them, but the amount of feed supplied was an unknown quartity.
"'Really, I do not know what amount I feed them, but I know it takes a lot." And so the replies
method will apply. When it comes to working yeopener to many a man. This is one of the ways in which a farmer can stimate relative values of crops. Labor and ccount not to the farmer, and unless ke can minutes ke is a far bigger loser than he knowa. Further, unless he drives his efforts to the pro uctive point he is falling out of the race. Every farmer should have and he may have gures that show why he gives his time and Merchants and manufacturers all over the coun try tell us that they never commenced to win til they made each department of their business rest
on its own feet, and eliminated all the parts of their industry that were not paying their warts their industry that were not paying their way.
And what are farmers but marufacterers and merchants? Why should they not effect a thorough search for the waste that is keeping
them back and making their burdens extraordinthem back and making their burdens extraordinarily heary? The task, is not so difficult as
many farmers think., Referring again to the discussion in regard to the profit of feeding grain to dairy cows I induced a neighbor to keep tab for a couple of miorths," The other day be smiled as.
he met me " "Say," he remarked. .I have those figures." "Well ?" I queried. "Guess I'l make
sale or two. I never thought there was the difference. Thanks for the hint." That neighbor has lound out where some of his profits have been going. This man's experience has been reI mention the board as a rood recowledge. rather than a book, because it may be tacked up in sight and so serve as a reminder and because serve to ready list. ren minutes a day will time at the end of the month will be sufflcient to make clear where the profits are coming from or going to. The resuit will be a disappearance of the old hit-and-miss way of doing things that
served to keep the farmer so hopelessly in the dark. \(\qquad\) w. D.

\section*{Great Interest in Purebreds.}

Possibly never before in the history of this country was so much interest shown in thes ticularly true at the present time of the cattle of both beef and dairy preeds. As an indication of the value which breeders, deep in the game of purebred stock breeding and those just commencing the o the high prices end keen biding which prevail at the sales of pure-bred live stock this spring. Sales are numerous, but their numbers o not seem to be keeping the prices of good stock down. Western Canada is waking up to
the fact that she must go into mixed farming. and mixed farming means the keeping of large astern Canada, already ongaged in mixed farming, is seeking to
strengthen her strengthen her posi-
tion, and realizes tion, and realizes full
well that the only means of doing so is by using the very best
biood of the different live-stock breeds available. Breeders from gather in large numbers at each pure-bred livestock sale of any magly prices run \(\mathrm{h}^{1 \mathrm{~g} h}\). being held they cannot be taken as an indica-
tion that we have tion that we have an
over-supply of pure Over-supply of pure
bred stock, even in the most thickly-settled
mistricts of districts of the old
Province of Ontario. There is a keen de-
ran. In the matter of feeding hogs it was little centage of those engazed in the milk busine Hutel lis a method which, though it is not abso lutely exact, has proven a fair guide: Keep tab
on the oats placed in the feed box for the horse This is an easy affair when the oats are holled as I have found best for the horses. The miller whil always let one know the armount rolled will do at the beginning of the season. Afte that it is simply a matter of marking up on a
board or a skingle, convenient to the bin, that may be taken to the house for entry in a book. be kept in the same way. The meal can readily he kept tab ort: For the roots and silage it is a practical method to weigh, place in a feed box
and to note the height of the feed in the bo After this it is but a small thing to estimate quite accurately what is fed in the aggregate.. If
records are desired of individuals the same
are taking advantage of this to disperse their grod stock amongst a number of the smaller stock-breeding industry do a great good to the cannot estimate the stimulus a district when a member of the community goes out and buys a good sire for use on his own herd and those of his neighbors who see fit to patronize females, the very fact that these are to or two good herd encourages his neighbors to get some highest prices is not hlways the best time to buy. A man in search of the best individuals
with the blue blood behind them good figure at any season. Present indications point clearly to the fact that now is a good time to keep the best stock already in the herd, and put forth the most strenuous endeavors to improve that stock by hreeding to the best sires improve th
available.

\section*{FARM.}

\section*{Farm Engineering}
kerosene as an engine futel:
The use of kerosene in place of gasoline as an engine fuel appeals to almost every farmer, be caust of the great saving in cost of operation. More and more the kerosene engine is crowding the gasoline engine as a farm motive power. Th price of kerosene, in all probability, will ever be lower than gasoline, for there are produced a least three gallons of kerosene for each single gallon of gasoline. This proportion must be kept be cause the two oils are not produced independent ly, but the kerosene must be produced incidental s in the manufacture or refining of gasoline. Kerosene is a heavier distillate. It is harder to vaporize at ordinary temperatures, and it is ex tremely diffcult to burn the kerosene completely If not completely burned, a heavy deposit of arbon or soot remaing.
Because of these difficulties, which do not arise with the lighter oils, such as gasoline, the commertial form of kerosene differs considerably from the common gasoline type. The greates difference is in the carburetor. These, of course differ among themselves, but the essential things are that there shall be some way of heating the cerosene, heating the mixture before admission, the exhaust gases are utilized for heating pur poses, although it is possible to use the cooling water from the cylinder jackets instead. To hee the mixture either the air inlet is connected to a chamber surrounding the exhaust pipe, or a pari
of the exhaust gases are deflected and led througg a jacket which surrounds a portion of the inlet pipe between the carburetor and the cylinder.
The size of the kerosene evaporating surface is The size of the kerosene evaporating surface is
made larger than the corresponding surface in a gasoline carburetor. Premature combustion is prevented by injecting a small amount of wate spray into the cylinder with eacn charge. The adion and a smaller consumption of fuel.
tion

Almost any gasoline engine can be operated on kerosone as, a fuel if first started on gasoline. difference in price is great the operator can anfor to go to a little extra trouble in order to effect started in the usual way, is allowed to warm for a few minutes. The the kerosen supply pipe is opened into the carburetor and the
gasoline pipe closed. This is accomplished by the use of a two-way valve which switches the carburetor pipe from one of the supplies to the other. A further convenient change is to place
the air intake opening of the carburetor close to the exhaust pipe so that the entering air may be be done, surround a portion of the exhaust pipe buretor air intake. Even with the best of ar rangements, there is bound to be more trouble with the formation of carbon deposits on the inside of the cylinder and on the spark plugs. The
result of the continuance of such deposits known to every engine user. Spontaneous ignition, loss of compression, loss of power and un-
due straining of the machinery are the main redue st
sults.
Denatured alcohol, properly used, is an ex
tremely efficient carbon remover With the velver closed and the piston at the end of the compression stroke, the compression space should be filled
with the denatured alcohol. and left all night. Then crank the engine hy hand a few times ar. start in the usual way on gasoline. The ex-
haust will be seen to be very black and will be found to contain much of the carbon deposit. The best results are noticed if the alcohol is in-
troduced into the cylinder as above while the troduced into the cylinder as above while the
cylinder is still hot from runnnin. In order to
prevent the formatior. amount of denatured alcohol may be introduced into the cylinder every two or three days. Kerosene contains more heat energy per gallon
than gasoline, but it is not so efficient. It does not burn so completely, and more of the heat is
lost in the exhaust ard in the colting The result is that a gallon of gasoline used in a gasoline engine will give more power than a gal-
lon of kerosene, the length of time during which the engine runs being the same in both cases. That is, the consumption of kerosene in gallons
will be greater than the consumption of gasoline for a day's work. The actual differcnce depends
upon the particular engine but in consumption of kerosene will be one-third greater the price of the latter must be less than twoNova Scotia.

\section*{Preparing Seed Bed for Potatoes.} Editor "The Farmer's Advocate'
Here is the method of preparing the seed bed lor potatoes that an East Flamboro farmer has followed with success for many years : The dairy
herd is kept in the stables over night during the summer months, in this way providing about forty spreader loads of manure. As soon as the clover is cut this manure is spread over the
clover stubble and allowed to leach into the soil. clover stubble and allowed to leach into the soil.
The clover roots grow quite rank, and a fine after crop of clover hay is produced. After harvest the clover is plowed down to a depth of
six or seven inches.
Frost and winter do their six or seven inches. Frost and winter do their
work, with the result that when spring comes the work, with the result that when spring comes the
ground is rich and mellow. This seed bed is ground is rich and mellow. This seed bed is plowed at least as deep as it was plowed in the fall, and then disked and harrowed again. The aim is to germinate all weed seeds and to kill them as soon as they germinate, and before they
have taken any nutriment from the soill Hall day thus spent in the spring with a three or four-horse cultivator is more effective than a day spent later in the summer. Further, when the potatoes are growing, anything like deep cultivation destroys a great many of the potato root-
lets. The obiect of manuring on the sod is to keep the fertility of the manure near the surface The aim of the deep plowing in the fall is to turn the soil with the roots up to the surface
where the sun and winter will rapidly produce a Where the sun and winter will rapidly produce a large quantity of humus. The aim in the deep
cultivation in the spring is to have a deep, mellow seed bed, in which the potatoes may grow freely. Unless the potato may grow freely it is
fikely to crowd to the top of the ground and to


Sugaring Off.
The call of the sugar bush is irresistble at
become. sunburned, and so to depreciare in
value. The potatoos once playted, they are run
over once a week with a weeter. this method of preparing the seed bed has been a clean held, and at least a faik crop of potatoes season proved good.
York Co. ont.

\section*{A Scarecrow}

I saw an article in "The Advocate" of Februcorn, and thought that perhaps my little experience might help sonreone else to solve the prob-
lem. While sowing my corn near the bush and at the same time thinhing out a scheme to ward
off the crows, an idea came to me and what it was: Get a piece of bright tin a foot square, punch a hole in the centre with a four
inch spike, then slit the tin from all four cor
ners in towards ternate point in towards the centre to form the
fans of a windmill point to correspond with the hole already in the inches square by two and one-half feet long for a crossbar, nail fans on each end with a four-
inch spike, and a light board on the other end, for a vane, bore a hole in the bar so that the
fans and vanes will balance over a stake driven in bar into groand stake, leaving enough hold so that the mill will turn frealy and your crow scare is complete. Do not oil, let it screech,
the more noise the better. I could hear mine screeching half a mile away, and I never saw Perth Co., Ont.

\section*{Favors Shanow Cultivation.}

Editor "The Farmer's Advocate"
Your request for suggestions from farmers crops, induces me to give you some of my experivence in which theory and practice combined have shown reasonably good results, and which may be of help to some who are simillary ditions, etc. In the greater part of our province hard frost in the late autumn, winter and early spring is the rule. Also it is the rule among farmers to get as much ploughing as possible done this. One is to prevent too great rush of work in the spring, and the other is to allow the frost to mellow and loosen up the soil, at the same time breaking down the particles of mineral matter and thus creating food for the growing plant.
Now there
those that have not been cropped for sill, usually a short time, that respond very readily to this action of the frost, and this soil will be found, in the spring, to be very finely pulverized, and
also very loose and open as soon as it become also very loose and open as soon as it becomes
comparatively dry. The point I wish to make is that deep cultivation, such as that effected by the disc harrow, on such soil as this is worse than useless. In the first place the newlycreated plant food is, in part at least, buried beyond the reach of the young plant, and subse
quently leaching may cause its complete loss to that crop. In the next place soil is turned up from below that has not been subjected, to the from below that has not been subjected, to the
same extent, to the action of the weather, and which is consequently hard and in poor condition or supplying th
means of life and growth to the coming crop. It is not
porous and will not retain moisture as will the looser soil and \({ }^{\text {prevents the na- }}\) tural spreading of the plant roots in
search of food. Now it view of the above
facts it would seem that a light cultivabe given by a stroke tooth harrow, would be the most suitable
in this case, and from my own experiench a method brings good results.
harrow levels
the
\(t h e\) ground leaving it in
fine condition for the drill, and in hali
the time that the dis would take to
do it. Of course, a field that can be
treated in this way is the exception, wand
every man must his own judgment ase to the individual requirements of his different
fields. But I suggest the plan as having worked well with me, and likely to do the same with anyone else where conditions are right. I have seen so row across fields of loose and sometimes neply ploughed land, that for that reason if for no other I would suggest light cultivation where practicable. But the saving of labor for \(\operatorname{man}\) and beast is not, the important point. It is re
sults we are after sulse I don't think shallow spring cultivation will disappoint us. It is is nature's method, and
she raised good crops before she was interfered she raised good crops before she was interfered \(\underset{\text { Gith }}{\text { withgarry Co., Ont. }}\) J. E. Mcintosh.

More Than One Use for the Pig Ring.
A writer in The Farmer's Advocate and Home for the pig ring other than depriving pixs of their capacity to tear up sod or other kinds of poil. These are worth reading over and we re A rope halter shank with a knot at the ond to keep the rope from raveling is a nuisance in many ways. It is always awkward to handle, especially when you want to tie a horse to post with an auger hole for the halter. very lew holes are large enough to let the kn post it works down and if the horse is young and fretful it is likely to make him pull. When you buy a new halter shank lltake a hog ring cut the rope so as to leave a clean, unravele

\section*{THE FAFIMER'S ADVOCATE.}

Chank that can be handled conveniently, and that are yigorous without value of the egge they lay Will not ravel. It is better than a rope ond fixed with a
If you tie the other end of the shank into the halter ring it does not look well, and often draws so tight that it cannot bo removed with out cutting. Pass the end of the rope through the halter ring for about six inches. With a
larger hog ring set tightly with the ringer you larger hog ring set tightly with the ringer you with another ring set close to the halter ring. with another between these two pig rings, you have a neat looking halter. If you wish to talke the nalter shank off, the rings can be cut away in a
minute or two with the fence pliers without damminute or to tho rope.
Amother very useful item in the pig ring's utility is its use for marking hens. Few farmers gir alun inum leg bands, but any one who pay f.r alun inum leg bands, but any one who to keep track of the age of each hen, and market her after she has laid one y'ear unless she has something of especial merit about her.
In the fall when the pullets are ready to be
taken from the coops in which they have been taken from the coops in which they have been ring around the right leg of each pullet, being careful to leave space enough for the leg to grow. Next fall put the rings on the left leg
and when marketing time comes sell off those and when marketing time comes sell off those with rings on the right leg. If a hen has prov-
od to be an exceptionally good sitter and moed to be an exceptionally good sitter and mother, see that she gets another ring, so that she
has one on each leg. If you have found that a hen is a better layer than the rest double mark her. A person who is about the hen house regularly, and is lenough interested in hens to
watch them closely, can soon learn to identify watch them closely, can soon learn to identify
the eggs of any particular hen. No two hens the eggs of any particular hen. No two hens lay eggs exactly alike.
the poultryman can keep her a enough for farm purposes without trap nests, as he will be interested only' in a few which he finds are laying better than the others. These should we double banded. It pays to keep these excep-
tional layers and good mothers as long as they
as they grow older, because of the improvemen they make in the flock
and have two narrower piece of woven-wire fence would be wide enough for your whichose you can fasten them nicely with pig rings by clamping the top wire of one piece to the bottom wire o the other piece, setting the wringer with the set screw to come as closely together as possible.

\section*{Just Dog.}

When I asked for dog stories a few weekg ago, for il knew thated returning to the subject at once that would provoke good chats, around wier fivesides. We cannot be improving our minds all the time and in hours of relaxation it would be expected, alk about dogs, than neighbors. As I expected, a lot of dog stories were sent in, also
stories about lambs, ducks, cows and domestic creatures. And just then things began to happen to me. I had to go to Toronto where I got stirred up about Indirect Benefits. then the cold weather came on, and I had to migrate from my desk to a table near ing the stories in the change, the letters containletters, and I haven't been able to locate all of them yet. However, I have found enough to provide a batch that should enable you to discover whether other people's dogs are smarter than yours. The subject may seem unimportant, amuse us are unimportant, but the fact that we should be amused is one of the most important things in the world. If the "wisest men" referred to in the old proverb did not relish a little nonsense now and then, they never would have gained their reputation for wisdome At the
same time, if it were necessary to same time, if it were necessary to lodefend the stories by weighty argument. A French ladyevidently an early militant suffragette once said -"The more I know of men, the better I like dogs!" While the men folks are digesting that,
let us proceed to the first story.

A doctor who gives his name and address as a guarantee of good faith, sent me the following: wakenree weeks after I located here, I was Further investigation revealed ay mere dog-a mongrel investigation revealed a/ mere dog-a snout gave ne finether hour's rest when I was ggain awakened by the same noise-cause ditto. This time he got hold of one leg of my pyjamas and pulled, never bruising my tender skin; so. remembering other dog tales, I let him pull. Seeing he was! in, earnest, I' gave him, another signal to desist and got dressed. At my; exit, he
was waiting and scooted aheat. With some misgivings, I aroused a neighbor, who said that he belonged to J. F., aged fifty-four, a bachelor who lived four miles south. Turning back, I hitched the yoke, at sight of which that dog's joy was unbounded. A short jaunt deposited me
d. F.s., just in time to do business.
"Not much to all that, but hear the rest.
"'J. F. is an epileptic, and prior to my locaand come to attend him, whenever his dog scratched at her door.
"'The day after I saw. J, F., one of the old lady's neighbors sent for me (A Coroner), to determine the cause of her death, as she had been found dead that morning. Investigation re
vealed that she, had beon dead at least two uavs vealed that she, had been dead at least two uavs,
The dog had evidently scratched her door unavailingly that night. Now then, granting that the dog had been trained to go to the neighborof the for help, how on earth could he know of the location of a doctor four, miles away, and as recently as three weeks since, and 'how could he
know to which house he should go ? tirely puzzling
After you have exercised your ingenuity, try ing to puzzle out the reason why of that story you may profitably consider the following lot which were sent by Mr. J.M., of Hamilton.
fifty head of cattle in a small ' yard, some distance from home and went back part way home when I thought of the large tin pail, which was left behind. I said, "Rover, bring that pail. He had to go through the fifty cattle, to the fa


Following in Mother's Footsteps.
,
ous as those who prefer the bulletins, and prac- taken a lively interest in the question. Since tically five times as many as those who placed 1895 the Dairy Department of the Ontario AgriThe strong points in favor of the farm paper are: That it comes regularly and often, comes
directly to the farmer, treats in each issue variety of agricultural subjects, contains all the essential information forwarded in bulletins or
delivered at Institute meetings; treated concisely delivered at Institute meetings, treated concisely and written in a language that farmers can un-
derstand. It never becomes stale, is always new and is readable and accurate. Agricultural research institutes are, therefore, asked to make
more systematic use of the agricultural press in more systematic use of the agricultural press in
an endeavor to efficiently reach the farmer We do not know what an investigation of this of Canada, but we do believe that these results would be substantiated. Farmers in Canada are not a great deal different from farmers in the
United States, and they prefer to get the information to help them with their agricultural work from a regular visitor like the farm paper which
carries the material to them in a readable form which they can understand and apply to thei own conditions. The significant point is tha
such a large number give no credit whatever anything except practical experience. While it is a source of satisfaction to note that so many ap-
preciate the work being done by the press, thes preciate the work being done by the press, these
figures serve to bring out the point that large figures serve to bring out the point that large
numbers of the farming community do not take accomplish the work which it sets out order to do accomplish the work which it sets out to do the
paper must get a large and wide-spread subscrip
tion list; subscribers must be readers
act upon somie of the things they read.
The men not now receiving help from any of the agencies ment need of bulletins, agriculture papers, Farmers' Institutes, and the help of the District Representative as are some of those acknowledging the benefit of these agencjes. These men musit be reached, but the paper cinnot do them good unless they subscribe and read what
it contains. Few there are who, aiter getting it contains. Few there are who, after getting
benefit from sources other than practical farm experience, would be so conservative or bigoted as not to give the various acting agencies credit. In eack department of the investigation the popularity of the agricultural press was evident:
There is a great field for this agency, and with the co-operation of the farmers generally the work can be made of far greater benefit than it has as yet attained. Readers should make their farm paper a medium through which to obtain and disseminate results of practical experience in
the various branches of their diversified calling.

\section*{THE DAIRY.}

\section*{To Improve Western Ontario} Greamery Butter

\section*{Editor The Farmer adyocato}
n two previous articles we have dealt with the need for ice on the farm for coeling cream in order to keep it gweet: and also with the need of extra payment for cream delivered of good quality, suggesting that grade A cream should be paid for at the rate of at least one cent a pound fat extra as compared with second grade cream. In this article we purpose touching on a tew sary in order to improve the quality of creamery butter. \(A_{s}-\)
suming that the \(\underset{\text { creamery is properly }}{\text { suming that }}\) built, has good ma-
chinery, good drainage, plenty of pur water, and \(h\) a s a
competent maker in competent maker in
charge, what mor
can be done? answer is, chiefly
pasteurization of cream which is a \begin{tabular}{|l|l} 
great need. & Buta \\
very \\
small
\end{tabular}\(\underset{\text { propor- }}{ }\) eries pasteurize, but those who do are turning out a pro
duct of uniformly good quality, an
they a re obtaining so we understand, a higher average price
for their butter, than for their butter, than
do those creameries where pasteurization
As we were the
first, as far as we
know, to adopt this system in Ontario,
we have always
cultur Dairy Department of the Ontario Agrisistently practised the pasteurization of all milk or cream which is manufactured into butter. We started first by heating the cream in shot-gun cans, which were set in a tank of hot water, stirring by hand until a temperature of 168 de-
grees was reached, then the cans of cream were removed from the then the cans of cream were removed from the hot-water tank, covered,
allowed to stand for about firteen minutes the allowed to stand for about fifteen minutes, then
set in a tank of cold water, and stirred until cooled to about 70 degrees, when they were emptied into a cream vat, culture or "starter" was added, and the cream ripened. We found a very marked improvement in the quality of our have followed it in some form ever since '95 The only objection to the can system is the extra labor. So far as results are concerned, there is nothing better than the heating and cooling in Small cans holding about three gailons each. obtained with a \(\$ 500\) pasteurizing outfit, but the can system is not applicable to creamery work where large quantities of cream are handled Since the can method we have tried nearly every
form of pasteurizer placed on the market, from the "Channel Heater" to the continuous or "flash" machine. We now have two types of the
"holder" pasteurizer and "holder" pasteurizer and cream vat, which is the very latest thing for creamery work. and we
have no hesitation in recommending these to have no hesitation in recommending these to
creamerymen. Owing to the high price of thesi-
tating about investing, and we are being asked
week for our experience with these nearly every week for our experience with these machines. A them, but they seem to be about the last word for city milk or cream trade. or for
the manufacture of finest creamery butter. It is likely that when they come into more general use the price wim the quality of their butter at the least cost for labor, heating and cod.
latest type of pasteurizers look good.

However, to get the best results from any system of pasteurization the cream should be dewise the tendency is far too great a loss of fat in the buttermilk, caused by coagulation of the curdy mibsible to recover in the process of churning. We hope those creamery firms who are advertisfing for cream, "sweet or sour," will allow us to say that they cannot expect the best results by pastearizing no attempt is made to pasteurize where cream is received "sweet or sour." We should be inclined to go farther and say that it is
doubtful if the best interests of the creamery industry are fostered by advertising the payment of
highest prices for cream "sweet or sour," as it givgest prices for cream the public generally, the gives thession that "sour" cream is just as good, and worth as much money for buttermaking as is
"sweet" cream, whereas all who have' studied the question know this is not the case. "But," I fancy some one says, does not the ". "Yes, he does, but the sourixg or ripening is under the is like an engine on a railway track running without a driver; or a horse tearing down a road
or street with no one in charge-both may end or stret right, but the probabilities are considerable damage will be done before engine or horse is
under control. So it is with cream soured on under control. So it is with cream soured on larms and during transit to the creamably the quality will be injured, and it will also injure been credibly informed that British Columbia dealers will not touch Western Ontario butter at all because of the previous experiences, and he ceameries have been urable to sell their butter at any price, even though "peddling" "it about the streets. We hope the foregoing is not true.

Another poict, is the need of reducing the loss possible. Sometimes there is an excessive amount
of fat wasted in the buttermilk, caused by pasteurizing sour cream; mixing lots of cream at too high a temperature, etc. Quite a number of creameries are putting in large churrs and then are mixing the cream from two vats, each of which would make a smaller churning, in the those two lots of the same temperature, and de
grees of ripening, hence when mixed and churned one vat is likely to churn more quickly than the other with consequent loss. For each ton of
butter there will be about three tons of buttermilk. An excess of .2 per cent. fat in the of butter. and where a creamery is churning an average of a ton of butter a day, this means 72 pounds loss in a week, and nearly a ton in \% loss of \(\$ 500\). This is a point requiring carefu eries. Reduce the waste of fat in buttermilk.
A third point requiring attention is salt and Lighter salting, more uniform salting. and the moisture content of the butter well within th legal limit of '16 per cent., should receive the atdemanding lighter-salted butter and uniformity To prevent waste of salt and to meet the demand for uniform salting, a salt test should be used by Those not familiar with these tests should make their acquaintance before the season of 191

The last need, which we have but short space the butter as is a good cold-storage for storing within a week, the butter should be shipped to a mechancial or other storage where the tempera ture is below freezing point, 32 degrees \(F\).-a In tests got in keeping quality by placing the butter a soon as possible after making at a low tempera ture, rather than leaving it at a moderate tem perature for a few days, then putting in a col In addition to being cold, a storage for butte should be dry and free from mould, as mould i
very objectionable on butter and causes very objectionable on butter and causes hea
losses.
crease great amount of talk re the marked in upon the removai of the United States tariff has not boomed the breeding of beef cattle in thi Dairy cattle were never in keener demand than at the present time, but out of all that has been written and said on the subject, there seems to have come a keener demand for and a higher ap ference of opinion on this type of cow dit exists and always will, but the fact remains that the cow capabie of yielding a fair amount ducing during the year and at the same time pro ducing a call which judiciousiy managed and fe butcher, is being sought after by men who, a few years ago, scoffed at the idea. There are dozen of buyers for each milking shorthorn in the coun try, and sales of this type of cattie are being a on the milking type of cow than on the straigh beef animal. A large proportion of the farming public seems to believe that there are possibilitie almost uniimited in the breeding of milk-produc recognized fact, and we believe, in the Old Land, steps have been taken to improve the milking qualities of other beef cattle. Milk and beef, two staples in our diet, are the mea
which cattle must ultimately be sized up.

\section*{THE APIARY.}

\section*{Queen Rearing.}

Editor "The-Farmer's Advocate should know how
Every up-to-date beekeeper shor to raise good queens. The majority of beekeepers find cheaper to buy the mo ability and love for the business, which would en-

or they cam be used to advantage in requeenin old or failing queens. As a rule, the young from the time they hatch.
The best time to raise good queens is during a honey flow. At any time when honey is not coming in from the fields bees will not accept queen-cells by the ordinary method, and have to find it to his advantage to use only strong
colonies made queenless and broodless; they colonies màde queenless and broodless; they should also be fed about a quart of diluted honey and water each evening. An ordinary five-pound makes a very good feeder for this purpose. It should be placed directly over the cluster. If the nights are cool sufficient packing should be used to prevent the escape of heat from the cluster.
A beekeeper who has a limited amount of time A beekeeper who has a limited amount of time
to attend to his bees had better raise his queens during the honey flow, or buy them. There are so many little details to keep track of and
strong colonies will not accept cells so readily, or strong colonies will not accept cells so readily, or they may supersede these young queens, thereby
making the colony of very little value the follow-
ing season.
JOHN A. MCKINNON

\section*{Wintering Bees.}

Editor "The Farmer's Advocate'
In your paper of March 5th, W. H. S. asked packed hives. As,you say, most beekeepers pack single-wall hives four in a clamp, but have to unpack again in spring. I am now using a hive
along the line asked for, only I do not think two along the line asked for, only I do not think two
inches enough packing so I use four and six inches enough packing so I use four and six or eight inches on top.
lumber, and find it strong enough to stand all
the strains liable to any ordinary hive. I the strains liable to any ordinary hive. I I must take exception to the last part of your last statement regarding such a hive being too warm in summer. There are at least four rea-
sons I can give. First, we have fewer swarms, the chaff hive being
cooter in summer and
keeping a more unior m temperature
- that is, it is warmer
at night and cooler at night and cooler
in the heat of the
day. Taking the two day. Taking the two
hives side by side in hives side by side in
actual test it has
been found that the been found that the
difference between the two extremes of tem-
perature in a single perature in a single
wall hive was 20 degrees greater th a \(n\) that in a chaff hive. Second, we have
larger colonies, which means more honey.
Third, we have faster
An Old Country Aplary
ees are congenal company in the hot su
able them to raise their own, if they only knew
how. A beekeeper who is contemplating queen raising should secure a good breeding queen from a reliable breeder, then adopt any of
the well-known methods, described fully in any good book.
One of the most simple methods of raising
ood queens is known as the Doolittle artificial good queens is known as the Doolittio artifia cell-cup method. Take a piece of hard wood arid
whittle and sandpaper the point so that it will be the size and shape of a natural queen cell Then take a small dish of melted beeswax and a cup of cold water. First, dip the stick into the
-water, then dip it into the wax about onewater inch. When cool dip it into the wax again seven or eight times, or until the cell has When cool it is removed from the stick, and the same process is gone through till the required number is made. bar, twelve to fifteen cells are sufficient on one bar, aifter which they should be given to a strong colony to be polished up be fore grafting.
his strongest colonies in order to through some of his strongest colonies in order to get a natura queen-cell found a queen-cell containing royal jelly the next step is to take a toothpick and transfer a portion of the jelly to each one or the artifical cups. An amount equal in size to a B.B comb containing young larve not more than twenty-four hours old. Cut out a piece of the comb and shave down the cells almost to the base so that the young larver can more easily be these young worker larvæ into each of the cups containing the royal jelly. The cell bar should then be fastened securely in an ordinary frame, and placed in the center of a strong colony that is superseding their queen; or paced in the top excluder. In ten days' time these cells should b distributed to nuclei made ready to secure them
bees night, allowing th then there is less labor faster. Fourth spring and fall, one having only and mues in all. Such a hive as I make is the cover ove easy to handle by one make is, I admit, not a but it is not much heavier, as it is only f-inch lumber.
An explanation of the fact that such a hive is oooler is the same as that which leads us to pack ice in sawdust, viz., the loose, porous meerial is a non-conductor of heat and cold.
Brant Co., Ont.

\section*{POULTRY.}

\section*{Hatching Poultry on the Farm.}

Th before the minds of poultrymen. Some in fact have begun operations, but in this part of Can the latter part of April and May eastern counties hatching seasons. Anything earlier than this is ound to be very unsatisfactory; eggs expensive hatches poor, owing to weak germ due to to ditions generally unsetisfact the hens, and conditions generally, unsatisfactory
Eggs coming from a distance
ery unsatisfactory at any season, but especial ly so during the early months, as the germs which are likely to be weak at the best are weakened still more by careless treatment and
exposure en route to their destination. Later exposure en route to their destination. Late give better satisfaction. Those who get eggs from a distance, however, may increase the
hatchability of their eggs by resting them for at least twelve hours in a cool, dry, well-ventilated room, having the temperature ranging around 50 degrees. The germ is a very delicate organizai
tion, and if started directly on its incubating
process after being jarred and disturbed out of a strong, healthy chick than if it is alloved to rest before being placed under the hen or in the
incubator. This I have proved by actual experience.

New-laid, properly-fertilized eggs from vigor ous, fully-matured breeding hens form the basis of successful hatching, and this important point keepers. There are also other matters equally important, such as free access of air during the period of incubation, for without oxygen for defew hours old-that is after incubation commences from the air chamber seensary for its existence the egg. When the eggs are placed under a hen she regularly turns them every day, and the same process is necessary when an incubator is used, otherwise the embryo chick will die. The shell of the egg must be clean, as if it is dirty it will
have a tendency to keep out the air. Many failures arise from inattention to this. The conditions necessary for successful incubation are an ven temperature and a cortain amount of moishatch is desired, and most people prefer this good ggss should not be over a fortnight old, and the resher the better. A stele egg will often take as long as twenty-three days to hatch, but the longer the time the weaker will be the chick. In dealing with the sitting hen, one of the chief points to be noticed is the maintenance of the that she will not'even leave her nest for food. This must be attended to. If she refuses to eat she must be tempted with something \(u\)
find that table scraps are fine for this.

Avoid chilling the eggs by allowing the hen to she is liable to be off too long without anyone knowing of it unless closely watched. The owner is often responsible for the chilling by giving her more eggs than she can cover. This is espe
cially the case in cold weather. A small number of chicks well incubated will make stronge chicks than a large number badly incubated. And if a large number hatch the hen cannot brood them so well nor keep them warm, and therefore their progress is slower. See also that the eggs
do not become too dry. I make a practice placing a grass sod, turned earth side up and plightly hollowed in each nest, and if the nest are not near the ground I sprinkle a little warm water over the eggs occasionally This, o
course, refers to hen hatching. My incubator i course, refers to hen hatching. My incubator is
supposed to have enough moisture in the egg supposed to have enough moisture in the egg fiter several trials of it I decided that ther was not enough, and at the beginning of subse quent hatches I introduced into the egg chamber buttermilk, which I renewed frequently. When buttermilk was not available I used water, to which I added a drop or so of zenoleum. I have in the shell since following this plan, so am sure in the shell since following this plan, so am sure
that it is good. I also use the disinfectant as a wash, according to directions to disinfect the incubator before beginning the hatch, and put the eggs in before it is quite dry. By doing this
any disease germs that may have collected on any disease germs th
the eggs are removed.
Where incubators are used much depends on securing the necessary amount of heangement o moisture, but above all, a thorough knowledge of the machine in use. However successful we first with one of a different make. Make your self master of your machine, and then begin to hatch. Of course, there are failures with na may be due to some fault in the cars or They may be due to some fault in the eggs or to the
sitting hen, or to the owner's carelessness as to circumstances under which he forces the incubation to take place. With regard to the eggs, of course, the chief thing is that they are fertile.
Fertile eggs may either become addled by rough handling, or the chick may be formed only to die before it can make its way out of the shell. Either of these misfortunes may be one of the wroknesses of the germ, inbres or or ine wornding hand, from young. and immature stock. Towards Sometimes weakness is caused by allowing too many hens with one male or vice versa. Insufficient care in collecting and preserving the eggs Farmers, as a rule, pay little or no attention result that they have hens of a nondescrip variety and no particular.egg record. To get the best results trap-nesting is to be encouraged, but when one cannot or does not care to go to the
bother of trap-nesting the next best plan is to observe individuals in the flock closely, leg-band the early layers, and watch them closely for any
sign of weakness; cull out the weaklings and freed only from the best. Yard the main flock
or if this is not possible then yard the breeders. yard a dozen or so hens is small compared with the improvement which can be made in the flock in a very skort time. By choosing your breeders and separating them from the rest of the flock you know exactly what you are breeding from. Instead of having to set eggs from the good layers and the poor layers alike, and very often
when no selection is made it is the eggs from the poor layers just beginning to pass in their quota of eggs that are used, you can have eggs
from only the good layers, and it is loy this from only the good layers, and it is by this
method and this only that the high record hens are produced. A hen laying from forty to fifty eggs in a year will have a poor show for producing a two-hundred-and-forty egg pullet. He ing must have an ideal ever before him. Make the two-hundred-and-forty or even a three-hunward that point by breeding only from high-eggrecord hens mated to males of the very best type and strain procurable. Year-old hens mated with two or three-year-old males or two-year-old hens Never mate old hens with old males, or -young hens with young males. Have vitality and vigor on both sides and avoid over feeding, as fat hens rarelv preduce highly-fertilized eggs. Provide plenty of green feed in the form or cabbage, ers busy. Vigor and vitality in the breeding pen means vigor and vitality in the chicks. Couple this with careful attention to the care of your eggs before incubation and during the pro-
cess, and you will be amply rewarded for your trouble.
Carleton Co., Ont.
RUSTICUS.


Profitable Poultry.
Profitable Poultry.
Place the summer houses for the poultry in the shade

\section*{HORTICULTURE.}

The Strawberry in the Farm Garden.

\section*{Editor curlhe Farmer's}

Of all small fruits grown in Canada, the While one may meet people the most popular. other fruits, an occasional person disliking even the raspberry, the strawberry seems to be a universal favorite. Yet, notwithstanding this, and In spite of the fact that it is one of the most paratively are the fruits-how very few comparatively are the farm gardens containing wellthis fruit for a good number of years, I will give a few practical pointers for the benefit of beginners.
Almost every farmer will tell you that he has tried growing strawberries, but they won't or dry, the soil usually gets the blame moist lack of success. Yet this fruit succeeds on a very wide range of soils. There seems to be an
impression abroad, however, that the strawberry
will not thrive, excepting in dry situation amateurs nearly always choosing the dryest weather be very favorablest undess the berries dry up, and the grower throws time, the game in disgust. The writer has beon up the this crop of late years on rather low land al though water does not stand on it are length of time, and yet in 1912, the season of contiuual downpours, the best part of a bumper crop was My advice, therefore is portion of the plantation. soil, unless some system of irrigation is moist soil, unless some sys

Plants to give good satisfaction, should be taken only from rows of last year's planting, which have not been allowed to fruit; selecting the strongest, near the mother 'plant, in preference to the partially-developed plants, at the outside of the row

Standard varieties, which have proven profit able in the hands of experienced growers, are the
kinds to plant. Keep shy of the new varieties being boomed by nurserymen. They may or mey not prove valuable, and experimenting with them is likely to end in discouragement for beginnors. When once a variety is found to give good resulte stick to it, until you are sure you have a better one. When I began strawberry growing, I co-operative experiment, and although I have tested a considerable range of varieties, the Clyde is still the standby. While other kinds from deter fong shipment, but for the not be suitable for long shipment, but for the home garden and \(t\) as near the ideal
berry as any \(I\) have berry
seen.

The soil should be prepared if posvated and manured crop the previous
year, deeply fall year, deeply fall
plowed, and f
ol lowed by thorough
cultivation in the spring previous to
planting. Fine or well-rotted manure should aiso be ap-
plied before spring cultivation soil can hardly be made too rich for
this crop. Furthermore, heavy manuring is conducive to retention of so il
moisture, so neces moisture, so neces-
sary in this case. Once the plants are dugg every effort
should be made to prevent the drying out of the fleshy
rootlets. It pays
also to lip also to clip about
one-third of \(t h e\) roots off \(W\) it \(h\) a
pair of shears-cutting squarely across. A better
root system, will
be the root system, will
be the result.
Plant as early as Plant as early as as
posible. Years of experience h a Ve
taught me that the taught me that the
earliest pl anted rows invariably give the best results. Plant in long rows if you can, and allow from three and one-half to four feet between rews to permit of horse cultivation. In these days of scarce labor, the strawberry patch is liable to be
under cultivated if sole dependence is made on the hoe. Eighteen or twenty' inches is about the right distance to space the plants in the row, and the spade is the best tool for planting, by shoving the the soil and opening the hole is now placed with the away from one, the plant after which, the soil is crown just at the surface, with the foot as firmly as possible.
the soil moisture and should be co conserve least once a week throughout the growing season. Cultivate quite deeply and close to the and narrow as the rows develop. Kep the soil immediately around the plants well loosened in the early part of the season. most particularly blossoms as they appear. Many beginners fail to do this, thinking that it will make but little difference and "won't it be nice to have some edly proven by experiments that it has repeat-

THE FARMER'S ADVOCATE.
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case of penny wisdom and pound foolishness to When runners appear they should be placed, by drawing a little earth over them, near the top
taking care not to cover the top. Once the row taking care not to cover the top. Once the rew
has developed to a width of two feet or so, all has developed to a width of two feet or so, all
extra runners should be cut off, to allow the extra role stivength to go into the plants. already whet. Although good crops are produced without clean straw over the rows once the ground has frozen quite solid, removing this when danger of frost is over in the spring.
A well-kept, strawberry patch will help to
solve the problem of making farm life attractive. What pleasure can compare with that of picking What pleasure can compare with that of picking basket of crimson berries, in one's own garden
in the dewy coolness of a summer morning Grow strawberries.
Simcoe Co., Ont. \(\qquad\)

\section*{Pears and Peaches on the British} Market.
At this period in the development of the fruit industry in Canada, growers should be on the
look-out for the extensions in the market, and with the present and always improving systems of transportations the European markets should not appear too remote. Especially is this true
if they will return remuneration for the extra care in packing for their long ocean voyage. In the Department of Canada a leading commission firm in Covent Garden Market, England, has communieated his experience with pears and peaches
shippead from Canada during the autumn of 1913. Conditions were such during the past season the early shipping season. The English an French crops were practically failures, and the grinkling of the Californian and Hudson River pears left the European demand quite unsatisfied.
Consequently the early shipments from Canada met with more approbation than they customarily do, and had not the later shipments arrived in over-ripe and unsatisfactory condition the reports and returns would have ing to Canadian fruit growers.
The early shipments of pears, chiefly, Bartletts,
arrived in good condition. Tkey were green and firm and first grades sold as high as 50 s . per barrel, while second grades sold for 45 s . The largest part of the arrival of Bartletts from Canada, however, were packed in half-boxes,
which sold at prices ranging from 6 s . to 9 s . 6 d ., while some parcels of fruit packed in patent packages realized as high as 11s. per half-box This half-box averaged in, weight about 29 pounds gross, and makes a very satisfactory con
tainer for pears going to the British market. The later shipments were quite unsatisfactor or nature. Whether this is due to poor storage
inclement weather conditions before harvest cannot be clearly determined, but some on arrival were over-ripe and even dripping. It is true that in some localities the fall season was wet the good conditions of the harvest, .but there were some conveyed across the water in refrigerator boats which arrived in an unsatisfactory condition, indicating that they had been stored on the American side for some time before being
sent forward. It is absolutely necesisary that the pearse be picked and stored while still firm in order that they may arrive on the other side in an acceptable manner and return satisfactory The Canadian barrel, especially where eight four bilge used, two at the top and bottom, and mission men, but the half-box receives more commendation.
The bulk of the pears in barrels were Keiffers,
but a fair sprinkling of Duchess, Anjous, Seckles, but a fair sprinkling of Duchess, Anjous, Seckles,
and Louis Bon were also in evidence. Keiffers sold from 15 s . to 28 s ., for the first grade; 20 s . to 26 s , , and Seckles, 26 s . to 32s. The general price per box ranged from 5 s . to 6 s . 9 d ., grade fruit of these varieties.
forward. Many of these peaches were also sent contained from thirty-six to forty-eight fruits each, and sold at from 9 s . to 11s. per package. This must be considered as a very satisfactory received for we look back at the general prices received for peaches throughout Canada during sent to the Old Country market in the past have returned satisfactory prices, and it looks as though shippers may in the future develop a good
market for peaches in the British Isles. There is one thing that must be remembered in conmust arrive in a good firm condition before they will be purchased by the consumers at a price in the handling of such fruit, and compensate the
hundren gallons of water, to which are added hundren gallons of water, to which are added
three pounds of soap. Some growers have comthree pounds of soap. Some growers have comcontaining arsenate of lead, as applie
dling moth, with satisfactory results.

\section*{Where Does Late Blight Winter?}

It has never been definitely ascertained by scientists whether the disease known as late blight of potatoes, causing the rot, will winter over in the ground or whether it must be conveyed into the soil by unhealthy tubers. Authorities on both sides of the water have differed on dangerous to plant potatoes where considered crop has been produced the year before. However, F. H. Hall, off the New York Agricultural Experimental Station, has summarized the experimental work conducted there in connection with this disease, and they have proven to their
own satisfaction that the disease must be transmitted by the tubers, and that it is not unsale to plant upon a blighted field it healthy tubers are used
To test the liability of such transmission, the
Station Botanist has carried on careful tests in Station Botanist has carried on careful tests in two seasons, and finds no evidence that the
fungus can survive the winter in the field, in central New York at least. 4 In each of the tests, soil from a field of diseased potato plants was thoroughly mixed, in boxes, with broken, rotten tubers and pieces of blighted stems; and the boxes Later the boxes were brought into the forcing house, a sound tuber was planted in each and
conditions made as favorable as possible for conditions made as favorable as possible for growth of plants land development of the disease the soil and in the air, and luxuriant, succulent growth of the plants, not a sign of blighting appeared, even when the plants were grown in a special glass chamber and thoroughly wet daily
with water drained from some of the soll mixed with water diseased meterial, or were painted with a thin mud made from such soil.
The results, being negative, do not prove that the late blight fungus cannot remain alive over
winter in the lsoil, butt they make such persistence appear highly improbable.
It would seem unnecessary then to change the especially as we know that thorough spraying especially as we know that thorough spraying
will control both blight and rot, and will in-
crease the crop enough, taking one year with ancrease the crop enough, taking one year with an-
other, to make this a highly profitable regular other, to make this a highly
practice in potato growing.

The Farm[Hotbed's Second Crop. Editor "The Farmer's Advocate":
When the plants have heen removed from the hotbed into the cold frame it will be ready for a and onions. Hoe over the soll, fertilize: with wood ashes, then sterilize the soil with a weak solution of formaldehyde. in boiling waber to destroy all insects and fungi that are sure to be there after the first crop. As the season advances and the temperature during the day in oll the hotbed during part of the day and a
shade provided. A good way is to teck chicken shade provided. A good way is to tack ehicken
netting over the hotbed (so as not to interfere netting over the hotbed (so as not to interiere
with the sashes) and on very warm days lay cheosecth over the chicicen netting. This will retain the moisture.

Before sowing radish seed, soak it in coal oil or a fow hours, then sow in rows six inches apart and between the rows sow lettuce, mustard or onion seed. The radishes will come to maing the lettuce, etc., which take from 20 to 80 days more space to grow. Keep the tempera-
ture high, water profusely, and force the growth of this crop if nice, tender vegetables are desired. Some annual flower plants will be needed for the garden and these should be first planted in the hotbed. Bedding geraniums that have been kept in the cellar during the winter may be
started in this way, if there is any Mif left in them. Tubers and roots, such as cannas, dahlias, tuberous-rooted begonfas, gladioll, can be made to bloom a month earlier by putting them in the hotbed for a couple of weeks. For budding early potatoes and testing mangel, sugarfield crop, you will find the hotbed very usea field crop, you will find the hotbed very usefor growing mushrooms. They are very easily grown if the temperature of the now spent hotbed is kept between 50 and 60 degrees and a covering kept over it during the daytime to exclude the light. Mushroom spawn and the direr tions for growing them may be procured from
any seed merchant. THOS SOMERTON, \(\mathrm{JR}_{\text {. }}\)

Lanark Co., Ont.

THE FARMER'S ADVOCA' \(\approx\).

Water Cress ln the Garden. Country and city people who have tasted the
pituant leeves of cress and acquired a liking for piquant leavee of cress and acquired a liking for
pt often ask it they would be able to produce it
it often ask it they will be able to produce it conditions surrounding this plant, in its natural state, be taken into consideration, and duplicated as nearly as possible in the cultivated patch.
Town and city folk even could enjoy much the relish which this plant supplies, for a very small bed if properly plant supplies, for a ver arge amount of leaves.
Moisture and coole
Moisture and coolness are prime requisites, and
although fertility will hasten the although fertility will hasten the growth of the
succulent leaves it is not the most important succuient leaves it is not the most important dowy side of a building or shed, but if it is to be grown in the garden some artificial shade might be provided. Trestle work ruadel shane
structed and covered with brush will answer the structed and covered with brush will answer the
purpose, and it is only in the initial stages that the most precaution is necessary. Whan it be
comes rooted and thoroughly established the rays comes rooted and thoroughly established the rays
of the sun do not jeopardize its chances to the same extent, and only recently the writer saw a magnincent bed, reeady for cutting, in a greenthe sun. After it is once rooted it will take its chances with the weather, but in the intense heat of summer it is better protected
seed, but my it is ongaty under water cresse by cuttings or seed, bit it is only under extreme and uncommon establish a bed. The plants do not amount to as much the first year, and run the chance of treezing out in the winter. Tkere is so much
growing in our creeks and small waterways that any country or urban dweller may procure it easily and without pitice. It is simply prucked out of the water or moist soil and transplanted
into the bed. into the bed.
Success wil
tion of the soil to receive the small plants possible select cool soil, retentive of moisture, an build it up by incorporating with it a large, per
centage of leaf-mould or well-rotted manure. Fertility is not the motive here though it serves an important function, but the object in view is to prepare the soil so the roots
will spread and reproduce the plants. In addition to this it will hold more moisture, an water cress will thrive in direct proportion to the who have commercialized the production of water cress and who are located in the vicinity of not be applied in the raw state for their can would be negative rather than for. their effec preparatory treatment.
With the bed thus prepared and well soturate with water, introduce the small plants from the brookside and keep it well shaded and watered After this water frequently and keep it shaded from the sun, and in a-short time you will have a garden plot that will supply many a dainty
supplement to the otherwise ordinary meal.

\section*{Pleasant Winter Work}
since a moderately good greenhouse is within the reach of all farmers at a nominal price negligence should not be allowed to linger at the small town, it would be a source of handsome profit to the owner, and in addition it would give customarily terminates his engagement with the farmer in the fall because he will not provide winter work. Some farmers are so constituted work as operating a greenhouse wher to such ity, exactness and perception are necessary, but there are others who will.
Valkenburg writes of January 8, 1914, Mr. Va house at a cost of \(\$ 150.00\), and in which small produced 17,000 early tomato plants which they an early spring crop, and during the winter lettuce and many other good-selling crops might
be produced There is nothing about the production lettuce that will not permit of its being grow
in a greenhouse of ordinary dimensions. seeds are first sown in flats, and for these com mon finnan-haddie boxes serve the purpose acmir-
ably.
During the month of February the seed would be up in about four days, and when the
are getting the second leanf they into flats, being set about two and one-half three inches apart. Here they are left and woll
watered until they have the third and fourth leaf started, when they are ready to be set into in February, four weeks from the last. trans planting should be sufficient to develop the crop
fit for cutting, and it will find a at the last of February or the first of March. Lettuce may be produced at any time, but this to designate the conditions in order to state the
periods when certain operations may be carried The permanet bed is simple and easily con structed, Different growers have different methods, but a satisfactory bed may be made of one foot of cinders in the bottom covered with
eight or ten inches of soil. The surface soil eight or thould con soin humus that it may be fertile and retain the mois ture. Here the amount of water required is easily met by a large watering can or hose if an improved water system is available. The temperature for lettuce should approximate 45 dein the daytime.
This addition to the farm operations cannot be recommended to all farmers, but those located in canning-crop districts or situated near a town ing the could produce saleable commodities dur plants for the early tomato or early cabbage nea.


Water Gress in the Greenhouse.

\section*{FARM BULLETIN.}

\section*{Milking Shorthorns Sold Well.}
was that held by Walter Pullen at his farm near Beachville, Ontario, March 10th, when his fifteen head, including calves just a few weeks old and
\(\$ 149.50\).
The highest price of the sale was \(\$ 285\), paid by W. Johns, Woodham, for the cow, Butter Belle,
but the sensation of the sale ville 2nd, a nineteen-year-old was Belle of Beach the bid of J. J. Graham of Ailsa Crais \$165. She is perhaps the heaviest milking cow
of her age in Canada.


A Source of Many Salads.
A bed of lettuce fit for cutting in the greenhouse of Main \& Collyer, London,
The following is a list of animals sold, with as the female champion, Belle of Beachville 2nd, J. J. Graham Butter Bell \(W\)............................. \(\$ 165.00\) Belle of Belle, Beachville 3rd, J. Milton,
Brant Duchess of Maple Lane, H. Inglehart, Maplo Lane Queen, T. Wilks, Tavistock Dean Star 6th, Wm. Weld Co., London Zori Lassie, R. Dunlop, Mohawk,
Erie Lass, John Virton, Woodstock Princess 7th, Jas. Weir, Dorchester,

Princess 6th, Alex, True, Woodstock Model Lass, A. Pullen, Woodstock College King, J. Johns, Ellinsville, Royal Performer, J, Moyle, Paris,
Oxford Lad, S. Jackson, Woodstoev

\section*{London Shire Show.}

Far-away readers interested in the results London Shire Show just over, will be glad (sired two days were those of Childwick Champion (sired 14 winners). Redlynch Forest King (sired (9), Norbury Menestrel (sired the same number), prizes), and Mimm's Champion, Birdsall Menest Hendre Hydrometer, King of Tanridge, and Slip ton King, whose stock etood in that order of
The Show is still remarkable for the uniform ty of quality-like Shires it attracts in huge
orces. They turned out in eighties and ninetioe class, but the judges, Forshaw. Thompson and Keene, never wavered, and did their work with praises earned all round. In yearling fillies the edgcote Shorthorn Company, whose Shire stud
promises to be as famous as the Shorthorn herd won with Fine Feathers, a handsome bay by Babingley Nulli Secunduis. Fine Feathers is of cxcep-
tional development, and it is seldom tional development, and it is seldom one sees a
filly of her age with such substance. She stands well and her feet and joints are excellent. The Duke of Westminister's Eaton Modesty, a filly of similar character, but scarcely so forward as the winner was secona, and J. W. Kenworthy's Deie mere Combine, who was third, is a big, good-
looking baỳ with capital joints and good bone
and feather In two-year-olds, last year's winning yearling
the Duke of Westminister's Eaton first. She has grown into a beautiful filly, with ast the quality and character which she promised
lane looks like having añother ast year, and she looks like having añother
'unbeaten", year. The Edgcote Shorthorn Com pany were second with Blackthorn Betty, a big,
well-grown, handsome filly with a good look out Third prize went to sir Walpole Greenwell's Marden Dorina, a nice stamp of mare.
Three-year-olds
made one of the of Shire horses that have been out for many
years. First prize went to J, \(G\). Williams's years. First prize went to J. G. Williams's
Snelston Lady, which made such a sensation last year when she beat Sir Arthur Nicholson's pre-
 Ernestine. Sir Arthur Nicholson's Leek Dorothy which took third, scarceiy made such a good
show as she usually does. J. G. Williams's Garston Surprise, the Ashbourne winner, was ourth. She has grown into a powerful mare First in four-year-old mares fell to whitley" handsome mare Sussex Pride. Sir Walpole Green five years and upwards under 16 hares saw Sir Walpole Greenwell's Pailton hands high
in. The strong class among brood mares is always that for mares over 16 hands and \(n\) ot \({ }_{2}\) inches. First went, to John Royal Duchess, a winner at Leicester and the Royal. She has grown into a Filliams's Maid of Athens, who wo several prizes last econd. In mares
\(\begin{array}{lll}\text { over } \\ \text { inches, } & 16 \text {, hands } \\ \end{array}\) much improved Lorna Doone caught
the eye at once by her size, power and \({ }_{\text {of }}^{\text {quality. }}\) Westminister's Tandridge Ma bel was second. Lorne
Doone was
165.00 choose yearling stallions, there was not much to Choice, who was first, is a big, woitghty colt, 195.00 growing into one of those pownerful and looks like \({ }_{220.00}^{140.00}\) Monarch Company were second with Edgcote \(\begin{array}{ll}220.00 & \text { Rothschild's a third-prize colt similar lines. Lord } \\ 180.00\end{array}\) 180.00 a rather different type He Hormandy Jesse, is


MARCH 19, 1914
collent Iegs and feet, and he looks well worth the
600 guineas he cost at Sir Berkeley Sheffield's sale at Peterborough. In two-year-olds. Lord Rothschild won with Orford Blue Blood, a bay of remarkable quality and substance. It would be
difficult to find a horse more perfect in his points difficult to find a horse more perfect in his points
and ankles. His bone and feather are excellent ant he sems \(\boldsymbol{a}\), little light in the neck. Sir Arthur Nicloison's Leeke Redlynch, which was a very good second, has exceptional masculine character, good collar-filling shoulders, and is a big,
powertul young horse, with good limbs and excollent action.
Great interest centered in the class for three-year-olds, in which last year's champion, Sir
Walpole. Green well's Champion's Goalkeeper, was entered. The crack made a fine show, and he has grown into a big, fine horse, fulfilling all the
great expectations which were formed of him last year. He made a really great show, and looks prize in four-year-olds went to James Gould's Snowadon Menestrel, who has grown into quite a size and power. Sir Arthur Nicholson's Tandridge Forester, who was second, has scarcely the character and quality of the winner, but he"
is the better mover. H. H. Smith Carrington's is the better mover. H. H. Smith Carrington's
Ivy Victor Chief won in stallions under 16.2 Ivy Victor Chief won in stallions under 16.2,
with Barber's Thanet King, a' powerful horse for Drayman won in over 16.2 hands stallions, an the Duke of Devonshire was second, with Warden Draughtsman, the champion in 1912 . Best of all the aged stallions was F. E. Muntz' Danes-
field Stonewall, now ten years old. He is a majestic horse, with a leonine head and crest, and a gaiety of motion that is astonishing in a horse his size and weight. The junior cups for stallions went it
Goalkeeper, with Lord Rothschild's Champion's Blood reserve, but many preferred Potter's King's Choice, the winning yearling. Muntz' Danesfield Stonewali won the cup for oider stallions easily enough, with J. Gould's Snowdon Menestrel re-
serve. But there was a struggle for the actual serve. But there was a struggle for the actual
Ohallenge or Championship Cup opinions being pretty evenly divided outside the ring. Finally Champion's Goalkeeper won, with Danesfield Stonewall reserve. The reserved seats applauded the winner, but the orrooms cheeped for the latter.
H. M. the King visited the Show on the second day and present
- London, Eng. \(\qquad\) a. T. Burrows.

\section*{H. F. Patterson's Sale.} H. F. Admirably managed sale was that of Mr. Comfortably seated in a large tent, protected from the cold March winds, the several phundred breders and otheras present were in a position to
appreciate the excellent qualities of the animel appreciate the exceilent qualities of the animals
as they were led before the auctioneer's and the splendid prices paid showed that to get the best out of a man he must have a full stomach and a warm pair of feet. The offering,
as a whole, was of a high individual as a whole, was of a high individual standard
with remarkable uniformity, and they were wrought rut in nice condition. and they were have proven by ocficial test to be exceptionally heavy producers. Only about hald the offering
was sold before we were Was sold before we were compelled to hie to the
train. Of the 17 sold, two years of age and over, the splendid average of \(\$ 236\) was realized. the highest price being \(\$ 380\), and 13 of them sold for \(\$ 200.00\) each and over. Four heifers made an average of \(\$ 131.25\), and seven bulls from calves up to 15 months made the average of
\(\$ 86.00\). Following are those selling for \(\$ 100.00\) and over: Following are those selling for
 san (ueen Hilda; W. F. Clark, Powas-
Prairie Flower's............................ Prairie Flower' Butter Queen; E. Law-
less, Thorold Sevangeline 2nd's Snowflake; W. G. Bailey
Hamilto Sevangeline 2nd; W. F. ciank Blanck Kay; W. W. Hurd, Onondaga.........
Blanch Kay Beauty Blanch Kay Beauty; F. Hamilton.............
Breta; W. G. Bailey.
Bretas N. Breta's Nellie; A. E. Condwell, Norwich....
Hulda's De Kol Princess; J. F. Goodall, Hulda's De Kol Princess 2nd; T. W. . Craig Hulda's De Koi of Riverside; w. F. Clark
Hulda's De Kol Riverside 2nd; J. Moote Duke of Brant; Chief Smith, Six Nations
Indians, Brantord

 Nellie Clardeille ...............................
Alice Mrown, Ancaster.... Luella De Boer; G. Durham, st................
Topsy Canary De Boer; W. H. Johnson...
Lady Canry De Bo Brantford
245.00

\section*{THE FARMER'S ADVOCATE}

Brandon Winter Fair. The annual Winter Fair at Brandon, Manitoba, shows and opens the season, as it were, for the shows of 1914. In a country like the Prairie
Provinces it is not should, each year, eclipse all previous this fair radiating from that city is a country that is just awakening to the value of live stock in building up the agricultural wealth of the proyinces and maintaining the fertility of the soil, that hereto
fore has been exported to other provinces countries in, a thoughtless and prodigal manner The Winter Fair just closed was favored with apreeable weather, and this combined with an marks an epoch in the history a success that Winter Fair. The various breeds of live stock were well represented. In horse flesh Clydes dales and Percherons were strongest, and the quality was such that the judges had no easy
task to place the ribbons. hogs were in every way. Fat cattle, sheep and of previous years, and the display of poultry was unique.

\section*{clydesdales.}

The progress of the Clydesdale in Western
Canada is phenomenal, and the exhibit here
 brought out shows that quaiity of feet and under- and second on Doune Lodge Revelanta
pinning pinning with considerable substance is responsihle Again, and Doune ar ange Reciprocty
for the lavished on the breed. In the aged stallion class 18 canie forward and furnishoert, the second-prize aged stallion at Chicago and owned by Hugh McLean, of Arcola, Sask., was left standing first. Geo Gray, of Crandall, Man., had the second
horse in Wyomyo, by Harvester, while third from horse in yyonyo, by Harves, by Everlasting, the the top was
property of W. B. Gregg, of Maple Creek, Sask. Ten stallions came forward in the three-yearold class, the best of which were worthy of a
good place, while farther down the line the good place, while farther down the line the
quality was less pronounced. Hail's Surprise, sired by Sam Black, and owned by R. Sinton, of Regina, was the best of the ten, but close to
him came Norseman from the stable of John Graham, Carberry, Man. The latter horse was superior on top, but in action and at the ground
he was excelled by Hails Surprise Paradox, by he was excelled by Heairs Surprise Paradox, by
Castle Royal, scured the white ribbon for \(\mathbf{F}\), J. Hassard, of Deloraine, Man., and won on Clydes-
dale type and quality of limbs. Bit of Fashion, fron his three betters considerable argument, buit

 meg al Sonsation was awarded the grand
championship ribbon, while resirve place
went to The Bruce of went to
Hilcrest.
Canadtan-breds. The Canadian-bred stook featured in their
numbers and quality. The line-ups were indeed pleasing, cloarly deed pleasing, eatrion
indicating the exter
ordinary work being ordinary work being
done by the done by the home
breeders. Hugh Mc . Lean won first on aged
stallions on Prince stallions on Princoo
Robert. Harry Martin wan second on Garand Pride, and D. McLean Treherne, Man., cap,
Tured third on tured third on Baron's
Headlight, by Blaol Hugh Gilmour's Bu of Fashion atood a year-olds of the three year-olds, and next
was Wyomyo's Heir. Son, Oak Miver, Man.
Watalanta' Heir tool Watalanta's Heir took
third for John Shields Brandor, and fourth ment to Hugh Gilmou
on Mar
 Jas. Adamson, Glad-
stone, Man., took the stone, Man, took the
premier prize on Royal pob, and J. R. Scharf took second on Bobble
Concord. The yearling Concord. The yearling
stallions were out to stallions wore out to
the extent of a score

nally went fourth because he did not supplemen his good quality with the same amount of subA past was considered when the high quality oted indids came linto the ring. There were horses, and they had won enviable places young shows as the International. Among the winners were Glendale Squire, Sinton's growthy stallio with straight action, and Fyvie Emperor, second Buchlyvie, which took third place at Chicagl W. H. Bryce, Arcola, Sask., was also in the ring along with Charnock, the junior champion at Chicago in 1913, owned by Alex. Galbraith, of Brandon, and John Graham's Border Forager.
Finally Gallant Buchlyvie wons Glendale Souir. was second, Fyvie Emperor won; Gliendale Squire was fourth and Border Forager fifth.
In yearling stallions, Regal Sensation, by
Royal Salute, won first for \(\rightarrow\) Robt. Leckie oit Arcola, and won like honors at Chicago in 1913. Sinton's Heathcote, by Mendel, was second, while lanta Again, by Revelanta's Heir. The stallion loal class was made up of a promising bunch, but
an oflspring of The Bruce was first in The Bruce an offspring of The Bruce was first in The Bruce
of Hillerest for R . I . Taber ,ot Condie Sask. Hilcrest for R. I. Taioer, of Condite, Sask. Imbs, by Baron
rougham, won the ougham, wo \(n\) the
ue rilubon for sinton, ue rilbon for Sinton,
hile Bryce was hired Bryce was
arded the white on Doune
\[
\begin{aligned}
& \text { egal Sensation } \\
& \text { warded the grand }
\end{aligned}
\] irst on The Bruce of Hilcrest, while Bryce's Romeo. Standing next was Royal Carruchan for Wm. Grant, of Regina, and Sweetheart's. Pride or J. J. Miller, Myrtie, Man.
In females the prize list was composed largely
Canadian-bred fillies, but they were the right. kind. In body they might be improved, but for quality of bone and snappy aotion they were hard quality of bone and snappy action they were hard
to beat. Bryce's Doune Lodge Floradora landed at the head of the two-year-olds, and her nearest competitor was Craigie's Meral of Westholme, a
property of the University of Sask
Hugh Cill property of the University of Sask. Hugh Gill-
mour's Baroness of Burnside made the contest interesting, but she finally took third place. First position in the yearling filly class went to Andrew Graham on Beautiful Countess, and second to Bryce on Doune Lodge Revelanta's Duchess. The third place was filled by Lady Grace, owned by Wm. Grant, and she was followed out of the ring hy Andrew Graham's Countesis May.

\section*{G. H. McKenzie's Sale.}

That it pays, when selecting a sire to head a herd, to buy the best was again demonstrated at the dispersion. sale of G. H. McKenzie, of Thorn-
hill, on Wednesday, March 11, when 13 daughters hil, on Wednesday, March 11, when 18 daughters Sogis, ranging in age from a few months up to near 2 years sold for an average of \(\$ 199.61\). near ore of them, over one and under two years,
Threr
averaged \(\$ 283.38\), the highest price being averaged \(\$ 283.33\), the highest price being
\(\$ 270.00\). Then otherr, under one year, averaged \(\$ 179.50\), the highest price being \(\$ 245.00\) It was a big sale with a big attendance of representative
breeders of the popular black and white pail frlers. The cattle were brought out in the nicest kind of condition, and the prices obtained were very satisfactory. 42 head Including all, brought a total of \(\$ 8,480\). 40 females of all ages made
an average of \(\$ 212.00 ;\) twenty-two over 2 years an average of \(\$ 212.00\); twenty-two over 2 years
of age,averaging \(\$ 232.00\). Following is a list of age, averaging \(\$ 232.00\). Following is a list
of ail selling for \(\$ 100.00\) and over and their of auyers. \({ }^{\text {se }}\)
Edgemont Ormsby Pietertje; R. Lawless, Thorold,
Edgemont Ormsby Segie; K, R. Marshall,
Lady ' Farforit Posch; Wm. 'Eiliiott, Edgemonville, Beauty; J. McNaigh, Owen Edgemont Beauty's Faforit: J. MeNaigh Edgemont Faforit Pietertje;, R. RiseEdgemont, Newtonbrook
Oshawa Edgemont Faforit; P. Forester, Gormby', Daley Calamity; Dr. Hess, Da Fortune,
Daiey Gerben Calamity; J. Riley, Enlesmere
Edgemont Daisy Segis; F. A. Lioyd, Stouffille,
Aaggie Wmily De Kol; P. J. Burton, Tottilla of Riverside; J. Riley,
Amy Peep Brd; Jos. Hood, Victoria Square,
Edgemont Tiilla....................... Trenton Pride; R. Lawle
Edgemont Pride; S. J. Prouse, TillisonEdgemont Pride Segis, Dr. Farewell,
Jesse Grace F. Jackues, Thornhill, Jesse Grace; F. Feckues, Thornhill,
Countess Echo Verbelle; R. J. Catmpbell, Stouffille, Countess Verbelie Segis, Wm. Eiliott, .. Ida Mechthilde De Kol; R. Risebrough,
Edigemont Ida Mechthilde
Segis:
Dr Edgemont
Ida Mechthilde Segis; E. A. Lloyd, Edgemont Ida; H. Ketchen, Brooklin, Edgemont Ida Segis; Dr. Farewell, .....,
Lady Floss Pietertje; F. H. Hatiey, \begin{tabular}{l} 
Lady Floss Pietertje; F. H. Hatley, \\
Milton, \\
\hline
\end{tabular} Edgemiont
Edgemont Floss:- J. Riley Edgemont Floss
Glenside
Segis,
E. E. Edgemont Laura Henc......... -....... Edgemont \(\begin{gathered}\text { Laura } \\ \text { R. Hengerveld } \\ \text { Davies }\end{gathered}\) Segis; Edgemont Laura Segis; J. S. Walker, Edgemont Nell; R. H. Havies,
Edgemont
Nell
2nd;
E. Mildred Norine Wopke; F. Yeoman, Daisy C. Tirania; G. Patterson, Ruby Posch Calamity; Mr. Boake, Sir Lyons Segis Calamity; F. Garbutt, Edgemont Segis:
Edgemont Segis; J. McNaigh,
On Thursday March 19th, and Fridav, March On Thursday March 19th, and Fridav, March
20th, there is to be held in Toronto, a meeting
of all the various farmer's associations in Ontario of an a view to amalgamation under the name of
with a Grange is at the head of the movement, and J. J. Morrison of Arthur, is secretary. A program
filing the two days with an evening session on the first day' has been arranged and prominent
speakers from the various Farmer's Clubs, Fruit speakers from the various Farmer's Clubs, Fruit
Growers' Associations, Poultry Circles, Co-operative Telephone Companies, Co-operative Supply
Companies, the Canadian Council of and different farmer's organizations form the
prairie provinces will take part. \(A\) cordial invitation is extended by the secretary of the
Grange to all those interested in the organization Grange to all those interested in the organizatio
of farmer's co-operative or other societies to
attend. attend.

\section*{\(\$ 200.00\)}
175.00
270.00 225.00
195.00 245.00 180.00
175.00 195.00 280.00 180.00 185.00
850.00 140.00 245.00
110.00 300.00 300.00
\(210: 00\) 150.00
235.00 210.00
310.00
255.00
1330.00 253.00
\(1: 3 \mathrm{n} .00\)
225.00 225.00
270.00

\section*{Norfolk Holstein Sale.}

If the success of the First Annual Sale of the Norfolk Holstein-Friesian Club, held in the town of Simcoe, on Tuesday, March 10th, is any crit-
eron to go by, the future sales of this well organized club are an assured success. The sale was held in a large tent in which comfortable seats were erected, evidently the first thought of the management being the comfort of the public attending. The management of the sale, throughout was of a character calculated to gain public
confidence, confidence, everything being clean, open, and
above board, and the majority of the cattle offered were up to a high standard, both in the matter of individual excellence and offcial production, among them being such great cows as Daisy Tensen Posch, with a senior three-year-old R.O.P. record of 19,611 lbs. milk and 747 lbs.
butter. She went to the hid of Simcoe, for \(\$ 500.00\). Netherland Fafortt, wíth a senior two-year-old R.O.M. record of 21.55 lbs . in 7 days, \(42 / 70\) in 14 days and 89.65 in 30 days, went to A. E. Hulet, of Norwich, for \(\$ 445.00\) Several others were up to an equally high standard. Much attractive breeding and many high
offlial records were in evidence all through the catalogue. The ' 43 sold before the writer had to leave to catch the train, made an average of \(\$ 194.50\), the highest price was. \(\$ 500.00\) for the
cow mentioned above. Following are those selling for \(\$ 100.00\) and over
Netherland Faforit; A. E. Hulet, Norwich, \$445 Eileen Eunice Faforit; H. Hlare Norwich, Netherland Beauty De Kol; A. Moore
Waterford, Posh; A. E. Hulet, Norwich, Nober Beauty; S. A. Best Cayuga, ...
Abb Hengerveld De Kol; A. E. Hulet, Winnie Win's Gem 3rd; S. A. Best, … Sevangiline Calamity Clay; F. Hamilton,

Niagara Falls,
Lady Wayne Shailing; A. E. Hulet,
Lady Keyes Mercena: A. E. Hulet Lady Keyes Mercena; A. E. Hylet,
Princess Abbekerk Mercena;
E. B. Byan Courtland.
starlight Pietertje; P. Fick, Port Canary Houwt je; L. A. Everitt, Vittoria Nercena De Koi Calamity; F. Hamilton,
Tidy De Kol
Tidy De Kol Calamity's: F. Hamilton,
Abbekerk
Pauline De
Fol Countess Daisy Barrington; A. E. Hulet Flora Staple; J. Alex. Wallace, ..............
Mercedes Lady Mechthilde; W. H. Cherry Mercedes
Garnet,
Daisy Tensen Posch; J. A. Wallace,
Cobalt Tensen; Cobalt Tensen; A. E. Hulet,
Marie Tensen; A. E. Hulet
Gano's Calamity Posch; R. Lawless, Thor-
Naud Albeverk Posch; L. Lipsitt, Strafford-
Lady Alice Renton; W . H. Mason, Tyrrell, Grace De Kol Abbekerk; G. Hyde, Tyrrell,
Princess Princess
Tillsonburg
Sache Queen Posch, E. Hy . Hydel
Irena De Kol F F Hamilto
Irena De Kol; \(F\). Hamilton,
nnandale Snowball; R. J. Kelly,
Countess Cherryvale Posch; L. Lipsitt Dulcie De Kol Gano; W. R. Boyle, Troy,

\section*{Prince Edward Island Notes}

With the customary spectacula
ravored with splendid weather, the ceremony and Prince Edward Island was opened on March 11th Judging by the attendance the general public was the Premier, Hon. John Mathieson and Hon With MacLean who are at Ottawa in connection Donald of Cardigan and Professor McPh Mac Queen's University. The speech from the Throne elerred principally to the developement in agrifiture, education, in fur farming, in the oyster he anniversary Representation question and to ference. It also foreshadowed legislation of on were appointed after which the the House committees
Hodjourne till Thursday'.
This, however, was not the only attraction in
the capital on that date. The Central Seed Fair the capital on that date. The Central Seed Fair
was being held as well as a Household Science
cxhbit whibit. Both of these were well patronized acience the educational meetings held in connection with them well attended. This is the last of our
Tsland Seed Fairs fur this year Island Seed Fairs for this year. Four have al-
ready leen held.
The Provincial at Summerside
and favorable weather. The attendance at these has been much larger than ever before and they cultural education.
The next attraction for farmers is the Horse Show and auction sale, which takes place in Charlottetown, March 25 th and 26 th. At the
present time, it looks as if it would he wit prosent time, it looks as if it would he well pat
ronized. Every Island man is a lover of borses, and many enquiries are being received.

The long Course in Agriculture is progressing
Pavorably, and the Second Year men stradents of Prince of Wales' College are being given pract cal work in live stock judging, in horticulture
and in poultry husbandry. and in poultry husbandry.
is in connectionsion work at present being done
circle was organized pultry. The first egg circle was organized last March and the first egg
39 in existence 39 in existence, twelve of which were organized by John Marcellus, of Dundelé, Ontario, who has been here for the past two weeks assisting T. A.
Benson, the Representative of the Poult ry sionson, the Representative of the Poultry Division. There are requests for organization from
41 diferent sections, and W. A. Brown, Chief of the Poultry Division is expected to assist with the work. A conference of egg-circle managers is called for the 18 th, when it is likely a provincial organization will be formed.

\section*{Amendments Affecting Maple} Products and Honey.
An Act to amend the Adulteration Act was recently brought before the House of Commons at Ottawa, and is now being considered. Amongst the articles included in the amendment is one dealing with the manufacture and sale of maple syrup and maple sugar. According to this act it is to be illegal to manufacture for sale, keep for sale or offer or expose for sale as maple sugar any sugar which is not pure maple sugar, nor an maple syrup any syrup which is not pure maple syrup and any maple syrup or maple sugar which is not up to the standard prescribed, which states that maple sugar shall . be entirely the solid product resulting from the evaporation maple sap or of maple syrup and contain iot more than ten per cent. of water and vield less than six-tenths of of water and yield no oned on the dry matter of the cent. of ash reckerated in such a way' as to ene sugar when incinpresent present as salts and not as oxides and not less than twelve one-hundredths of one per cent. of ash insoluble in water and yielding a return not less than one and seven-tenths when worked by
the Canadian method nor less then the Canadian method nor less than one and two-
tenths when worked by the winton method Maple syrup shall be syrup made by evaporation of maple sap or by the solution of maple concrete in water and contain not more than 35 per cent. water. The dry' substance of maple syrup shall meet all the above standards for maple sugar.
The use of
made either of the word "maple" shall not be made either alone or in combination with any
other word or words on the label or other raark on the package containing any article of food or any article of food itsell which is or shall re semble maple sugar or maple syrup wezich is no pure maple sugar or pure maple syrup, and any this subsection shall be deemed to be adulterated within the meaning of the Act. This is the This is the portion of the Act which makers of
maple syrup and maple sugar have been asking or. Maple as we understand it, when this act comes into force if it passes the House of Comproduct of the maple tree. Of interest to bee men will be the amendment
which refers to honey, and which states that th which refers to honey, and which states that the
vord ""honey" shall not be used either alone or Word "honey", shall not be used either alone or
in combination with any other word or words on the label or other mark on any package containing any article of food which is or which resemhes honey, and which is not pure honey made by in vies and any article of food labelled or marked ated not apply to anse, the provisions of this sold for medical purposes.

\section*{Cutting Down Naval Outlays.}

Crushed under their war debt and naval expenditures, particularly, which have swollen
from \(£ 4,485,000\) in 1901, to \(£ 9,461,000\) in 1912, the people of Japan are coming to their sonses, and revolting against these burdens.
The Budget Committee of the Upper House of sum of \(\$ 20,000,000\). This proposal is in addition to the \(\$ 15,000,000\) curtailment recently passed by the Lower House

\section*{THE FARMER'S ADVOCATE.}

Agricultural Legislation in Quebec Last Session. co-operative agricultural societies The law relating to such societies has been menaos:
The migister may at any time have the books and accounts of any co-operative agrie
society examined by one of his employees.
TThe offcers of any such society shanl, when required, submit such books and accounts for eramination, and shall, to the best of her mich may be put to them regarding the same
mererand the financial condition of the society
At the International Agricultural Congress,
held last year at Gand, a resolution was adopted held last year at Gand, a resolution was adopted
recommending the examination by the state of recommending the examination by the state of
the books and accounts of co-operative essociathe bo
tions.
The number of such associations is increasing
in the province. The most important ones are
mole in the province. The most important ones ar the Cheesemakers Co-operative Association and
the Tobacco Growers' Association, of the Yam-
Valka Vallev. Last year, the Cheesemakers' Aseska Valley. Last year, the Cheesemakers' As-
sociation sold butter and cheese for more than sociation sold butter and cheese for more than reserve fund is \(\$ 5,800\). It pays this year a div capital of the Tobacco Growers' Society is \(\$ 35\),800 and its reserve fund \(\$ 16,000\)
dividend of 6 per cent. last May.

PROTECTION OF PLANTS FROM
DESTRUGTIVE INSECTS
FUNGOUS DISEASES
FUNGOUS DISEASES
The
It is forbidden to import into the province any plant or part of a plant attacked by destruc ive insects or the plant diseases hereinbelow speciled. The entomologist, or his assistant on rechardtative, has the right to enter any nursers to believe that there are plants of any kind. No one skall keep in his possession, nor offer for sale plants or parts of plants whic inafter specified. The owner or occupant of any lot of land where the existence of any of the sai insects or diseases may be ascertained or the in ted, must inform the the entomologist for the treatment or destruction of any plant infested by destructive insects or plant diseases must be car ried out by the owners or occupants of nurseries or orchards.
Among the destructive insects and plant diseases to which the Act shall apply the followin
insects and diseases are expressly includyd 1. The San Jose Scale, 2. The Brown Tail Moth 3. The Gipsy Moth, 4.The Woolly Aphis, 5. The Black Knot, 6. Apple Canker, 7. Potato Canker. plants exists in a nursery, no plant or part of a plant can be removed or transferred elsewhere until the entomologist has given the owner a fiven plants infested have been followed to such an extent as he deems necessary
Every contravention of the Act renders the person guilty of the same
LOANS TO FARMERS' CLUBS OR OTHER
GRIC SSOCIATIONS.
A new Act enables the Minister of Agriculture agricultuural society or farmer's club or other agricultural associations for the purchase of
registered live stock or for any other agricultural purpose.
vince and now 642 farmers' clubs in the prov vince and almost everyone of them owns regis-
tered live stock. Last year they spent \(\$ 38,492\), 10 for the purchase and maintenance of such live
stock.
Loans have been made to breeding syıdicates, some of them owning registéred Belgian draft horses. A few agricultural societies have also ular and their crossing with the Canadian mares has given most satisfactory results. There are now hundreds and hundreds of halp-blood Belgian horses and fillies for wh
refuse very good prices.

COW-TESTING ASSOCIATIONS
A law has been enacted in order to authorize among their members managed by the directors A A club may' devote its funds, wholly or in part, consent of the expenses to members of the association for herds of cows submitted to the testing by the society.

Experiments
with Farm Crops in 1914.

The members of the Ontario Agricultural and Experimental Union are pleased to state that for
1914 they are prepared to distribute into every
township of Ont township of Ontario material of high quality for
experiments with experiments with grains, fodder crops, roots,
2a Testing O. A. C. No 21 barley and emmer.
2 b TTesting two varieties of tworowed barley
3 Testing two varieties
\[
{ }^{2} 10
\]
5 Testing two varieties of spring wheat.
6 Testing two varieties of buckwheat
7
8
8 Testing two varieties of field peas.............
9 Japanese beans...... ........... s....................
10 Testing three varieties of husking corn....
11 Testing two varieties of sugar beets for
13 Testing twree varieties of Swedish turnips
14 Testing two varieties of carrots............... Testing thre
16 Testing three varieties of millet
17 Testing grass peas and two varietios of
\({ }_{22}^{21}\) Testing two varieties of allaifa.
\({ }_{24}^{23}\) Testing three variotios of field beans...
30 Testing three grain mixtures for fodder

Fach plot is to be two rods long by one rod

\section*{wide,
square.}

Any person in Ontario may choose any one n the experiments for 1914 and apply for the same.
The material will be furnished in the order in which the applications are received, while the supply lasts, It might be well for each ap first could not be granted. All material will be furnisked entirely free of charge to each ap-
plicant, and the produce will, of course, become the property of the person who conducts the experiment. Each person applying for an experiment should write his name and address very
carefully, and should give the name of the county in which he lives
ntario Agricultural College, Guelph

\section*{The Evolution of Commerce.}

\section*{A recent issue of the Canadian Journal of} commerce at the enormous figure of \(\$ 40,600,000\), carried on thropendous amount of tramicking io ing ships, 47,714 steamers and 625,000 miles railroads. This mileage of trunk and brancli roads is enough to girdle the earth twenty-five times the monstrous locomotives and elaborate conche which are "feartally and wonderfully made" and think what a genius some man must have been
who had the audacity to invent such a thing But no one man did it at all. With steamships the semi-nude barbarian is responsible in part for their development. He it was who tied to gouged out a log and with a flattened sapling propelled it through the water. Since that time a pole has been added and a small sheet, a nail
here and a bolt there, an extra layer of wood or hheet of steel, a crude engine and a wheel, a sheet onser engine and a screw; each man has added. kis small quota to the invention of the barbarian until we have palatial steamship which will plow
across the Atlantic in less than five days, bearacross the Atlantio tho five thousand human live ing in luxury almost five thousand human
and thousands of dollars' worth of freight,
Railroads were not always thus. The gigantic locomotive with its string of one hundred freight cars is an evolution of the wagon on the ordin-
ary road. As early as the middle of the sixary road. As earamays were in use in the teenth century tramways were and Newcastle for the conveyance of coal from the pits to the river Tyne for shipment. In 1676 Lord Keeper North writes, the manety straight and parallel, and ralky carts are made with four rowlets fitting
bulky buky carts are mereby the carriage is so easy that
theese rails wine one horse will draw down four or five cauldrons
on coal" (from 10.6 to 13.2 tons). Iron sheathof coal" (from 10.6 to 13.2 tons). Iron sheath-
ing was later added to prolong the life of the ing was later but this produced considerable wear on the rollers of the wagon, so iron wheels were intro-

and some had a flange to keep the flat wheels on the track, which principle has been applied to the Wheel inste 1821 and ralway was auth the advice of Stephenson, the proposed, but on engines were adopted. At the engineer, steam
27 th of Sening on the 27 th of September, 1825 , a train of thirty-fou was drawn by one engine, driven by Stephenson with a signalman on horseback in advance. From the time of the first experiment develop-
ment has been pkenomenal. Power has been ment has been pkenomenal. Power has been motives trailing an enormous tonnage now motives trailing an enormous t
over 625,000 miles of steel rails.

The Sprucedale Stock Farm Sale.
The sale conducted by A. Watson \& Sons, and
F. Jackson, at the "Sprucadale" Stock Farm St. Thomas, on Thürsday, March 12th, was satisfactory to all concerned. A large number of stock of all breeds was offered and eagerly picked
up by breeders and feeders. Clydesdales, Perch up by breeders and feeders. Clydesdales, Perch cattle were offered as well as sheep and swine. The day was fine, but a cold, chilly wind made it rather unpleasant for those standing long in
one position. Among the large crowd present one position. Among the large crowd present
were those who came particularly interested in were those who came particularly interested in
one line of stock, and they were not absent when that particular, breed was being sold. In th horses Lady Grey, a show-ring mare, sold for
\(\$ 800\), while other prices received ranged from \(\$ 300\), while other prices received ranged from
\(\$ 150\) to \(\$ 184\) Time did not permit the represale, but among the pure-breds sold were some high-class Holsteins that had not been fitted fo show or sale, but were brought out in ordinary milking condition.
The names of the Holsteins selling for \(\$ 100\) or Susie of Pleasant Valley. R S. MCVitty Munsey........ .................... ...... Mitty , 8180.00
 Fanny Bly; R. S. MeVitty....... .............. 225.00 Queen May Lass; E. Siple, St. Thomas... 170.00 Lady Bedella; C. Butier, Middlemarsh...... 105.00
Beauty of Hengerveld; H. Johnson; Union, 120.00
Sprucedale; C. Butler....... ................. 100.00

\section*{Farmers and Dairymen of New} Brunswick meet.
With an attendance of over 200 delegates from many other interested farmers, the 38 th apnual meeting of the venerable assoclation was provery best in its history,
The opening session was held in the Fredericton City Council Chamber, where the welcome of the city was extended to the Association by
Mayor Hooper. President W. H. Moore in his opening address
emphasized the necessity of our fermers giving more attention to the quality of their products, and to the construction and maintenance of bet-
ter highways. He believes New Brunswick farmers might do much more thain at prunswick farm-
ply the demand for pure ers might do much more than at present to sup-
ply the demand for pure seeds. Hi commended
the educational efforts of both. Dominion and Frovincial Departinents of Agriculture, and urged his hearers to co-operate in the efforts of the governments. He gave it as his opinion that ture and their churches by giving intelligent-
sympathy and assistance to the farmers of theif sympathy and assistance to the farmers of theif congregations, and instanced the work of Rev, T.
Hunter Boyd, lately of Waweig, N. B., and Rev. Father Buyd, lately of Waweig, N, Bla, and Reince Edward Island, as shining examples.
Treasurer H. H. Smith responded to the
Mayor's address of welcome,
He believes there Mayor's address of welcome, He believes there is no better agricultural land in America than in perience there, is no reason why hert farmers hould not achieve pronounced financlal success.
Hon. James A. Murray, the new Minister Agriculture, made an excellent impression spoke eloquently and optimistically. He was, he overything possible to atused though excellent farmie to take up the unvince, and his hepartment would increase its efiorts to do all it legitimately could to ince its agricultural development. Many enquiries are ties in this from the west as to the opportunistrangers heovince, and as well as the influx of ple return to take to see some of our own peonow being felt. The farmer's outlook here is excellent, with his fertile lands and a market deply it in excess of his present ability to supproducts is being ery line of live stock and farm with the splendid impored. Department, will do all it can to spread the best nets. the Department is this year opening the experts the Department is this year opening schoots at
Woodstock and Sussex for technical instruction,
and attention is being given to the subject in the
Normal School, and this year there will be summer school for teachers at Woodstock. He also hopes in time to see technical agricultural
schools in every county in the province. The schools in every county in the province. Farming Special Train run last year over th
lines of the C. P. R. was so successful that
similar train will this year be run over the I similar train will this year be run over the I. C,
R. In horticulture work will be actively prose cuted. One hundred thousand apple trees have been set out in the province during the last four
years, and this rate of planting will, at least, years, and this rate of planting will, at least
be maintained. He has in vlew special work fo
the promotion of dairying and the live-stock in the promotion of dairying and the live-stock
dustry generally, inciuding poultry and bees.
Referring to the emabrgo placed on New Brunswick potatoes, he said he would not ques tion the motive of the United States authorities
even though they did show samples from New Brunswick affected with the scab and those from Maine free from it. He could only say, that,
from the information he had obtained, Maine potatoes were worse affected than our own, steps have been taken to exclude Maine potatoes from
the province, and vigorous/ efforts will be taken o. stamp out the pest.

Mr. J. B. Daggett, Deputy Minister of Agri culture gave some facts as to the tremendous importations of foodstuffs into the province. He
thought our farmers should be getting the money sent out for these importations, and instanced some of the prices paid; quoting \(18 \frac{1}{1}\) cents per
pound for ribs and loins of beef, in a wholesale pound for ribs and loins of beef, in a who
way paid by a Fredericton dealer recently.

Referring to the powdery scab on potatoes, to tention, he thought it was very fortunate tha we have been made to realize the seriousness of this disease on its first introduction to the pro-
vince. The Department has put on a strong the disease. It is a fact though somewhet markable, that most of the infection found in this province has been traced to seed coming from the State of Maine. Steps are being taken to
prevent a recurrence of infection from this prevent, a recurrence, and he hopes it will be possible, with the co-operation of the farmers in planting only clean seed and on clean ground, to eventually stamp out the disease.
Andrew. Flliott, Galt, Ontario, took up the mattor of judging, feeding and caring for dair and Holstein cows before the meeting, and fol lowed this with a talk on beef cattle, using som steers from the D
for object lessons.
T. O. Clarke
the development of sheep raising in the Maritime Provinces by the Dominion Government, gave a short address. in which he urged the profits to b made from keeping good sheep. In England Where the acreage is about equal to that of the
Maritime Provinces, over \(40,000,000\) sheep are kept, while in all Canada there are only 2,000 ,-
000 . Our climate here is very similar to that of Bngland for sheep raising purposes, and we im portation of wool of such quality as we can grow here is about \(5,000,000\) pounds. Sheep are no only useful as a market commodity, but they enrich the soil and destroy weeds. Alfalia
Enliott, J. D. McKenna,
D. and others. Mr. Elliott told of the essentials to success in alfalfa growing, and went on to say that for average farm conditions where it is desired to take full advantage of every crop in the
rotation; he preferred clover to alfalfa, as it is
more easily grown and after growing a crop of following adds lots of fertility to the soll for the in this way, as it is difficult and expensive to get it well established. He admitted the best field of alfa
Brunswick.
J. D. McKenna, Sussex, differed with Mr Mlifalifa, maintaining that the latter of clover and ably a maintaining that the latter is incompar Haverlock, whose field Mr. Filiott admitted was the best ke had ever seen has been able to produce seven tons of cured alfalfa hay per acre in
one year in three cuttings. The hay in compar son with the price of other foods on the market has a feeding value of \(\$ 20.00\) per ton-equal to \(\$ 140.00\) per acre; is there any fodder crop that can beat that or even approximate it? He be
lieves it will pay every farmer to learn how to establish and maintain a good stand of alfalfa. Mr. McKenna deplored Mr. Elliott's opposition to alfalfa for the success of Mr. Seeley, and other growers in New Brunswick shows that the
general introduction of this plant on soil adapted to it will mean millions of dollars to the farm ers of the province.
Chas. W. Bell, St. John, N. B., led the discussion and demonstration on horses, A
Clydesdale stallion and a Percheron stallion owned by H. C. Jewett, Fredericton, were brought before the convention, and a pure-bred Clydesdale mare, five Clydesdale grade mares and two-Percheron grade mares, as well as some heavy geldings, were shown from the Dominion
Experimental Station. Only heavy horses were discussed, and Mr. Bell strongly urged the farmers instead of aiming to produce a general-purpose horse to produce a heavy draft. There
need be little fear of getting horses too heavy need be little fear of getting horses too heavy
for the market or for farm work. There will always be enough undersized ones to fill the demand for the smaller horse. Quality, of course, must not be overlooked, size with quality is
wanted and the market will pay the man who has wanted and the market will pay
it to sell, a profitable price.
A. Murray, Minister of Agriculture held a conference with the Agricultural Society delegates to discuss the matter of live stock imurged that there should be some who spoke urged that there should be some restriction
placed upon the running at large of scrub bull placed upon the running at large of scrub bulls. breeding, \(i\). e., that all the farmers in a com munity agree to use only one breed of cattle sheep and swine, sand co-operate in the use of the pointment of special officers by the Department to assist agricultural societies and all who wanted such assistance in the selection and purchase of good. breeding animals. A few urged importations by the Department. Mr. Daggett for the W: D. Ford, of Macdonald College, has been en gaged to assist in the purchase, distribution and exchange of breeding stock, and will shortly take up his duties.
H. B. Durost, of the Provincial Agricultural and bee-keeping. W. W. Baird, Superintendent of the Dominion Experimental Farm, Nappan, N. S., and Andrew Elliott discussed the question of soil cultivation. Mr. Baird took up the comoutlined methods of handling to get the best results. He urged more intensive work in crop
growing, and less skimming over large areas for growing, and less
meagre returns.

Artificial fertilizer came in for vigorous dis-
cussion. A. R. Wetmore, Secretary of the Clifton of the work done by bis society for the told twenty years in importing chemical ingredients and assisting in home mixing these. Members of olstained from this methoil, as they saved 25 to 35 per cent. of the cost and got uniformuly better results than from using ready gat uniformly lizers. This year his society will be able to supply chemicals to make a ton of \(4-8-10\) mixtura for approximately \(\$ 27.00\). This ton will contain
80 lbs . of amonia, 160 lbs . phosphoric acid 200 libs. of potash.
The place of corn and ensilage on New Bruns-
wick farms was discussed by W. W. Hubbre Superintendent of the Dominion Experimental Station. Where soil and climate are adapted to
corn, which would be on at least 25 corn, which would be on at least 25 per cent. of New Brunswick, he stated that the most profit from live stoek is not possible without the corn crop and, the silo, but in no case will he advise any farmer to abandon the turnip crop for corn
to secure succulent material. On the Jxperimental Station farm at Fredericton the past season there were \(12 \frac{1}{2}\) acres of corn and 5 acres of turnips. The former gave 9 tons to the acre, the latter 20 tons. Valuing theeir food con-
stituents at similar prices on the German velwn stituents at similar prices on the German valua--
tion, the corn was worth \(\$ 36.00\) per acre against tion, the corn was worth \(\$ 36.00\) per acre against
the turnips \(\$ 52.00\). In neither case was maximum crop obtained. Under favorable conditions from 12 to 14 tons of well-matured corn can usually be obtained, and from 24 to 28 tons of turnips. He exhibited the sweet, sound ensilage from the farm crop last season, though on ac-
count of the very late, cold season the corn was not nearly so mature as was desired or possible

\section*{in good years.}

The value of field crop competitions was discussed by N. W. Eveleigh, Donaid Innes, and W.
H. Moore. H. Moore. Short address were also given on
this subject and seed selection by S. M. Fiske, and S. L. Peters, and these questions as well as the eradication of weeds were generally discussed by the meeting. All growers were strongly urged to use only government inspected No. 1 seed when buying, and to take every pain to select
their own best seed and thoroughly cleanse it, Mr. Peters was especially emphatic as to the better results that can be obtained by selecting home-grown seed of all kinds rather than buying from
T. C. Nunnick, Ottawa, Agriculturist of the Conservation Commission, gave an interesting ad-
dress illustrated by lantern slides. He showed wasteful and economical practices, handy contrivance, and many matters affecting rural life. The officers elected are as follows: President, Thoach, Sussex ; Recording Secretary, A. R. WetRoach, Sussex ; Recording Secretary, A. R. Wet-
more, Clifton;
Corresponding Secretary, im. A. Scovil, Gagetown: Treasurer, H. H. Smith, Hoyt Station.

A joint deputation of the Waterways Union and the Radial Railways Unions will be heard by the Dominion Government, on Thursday, March 26th. A monster deputation is going to Ottawe on the 24th and 25th, with a view. to laying the tural waterways and the importance of Hydro radials before the Government. This movement was decided upon at a large meeting of those interested in Hydro Electric radials held in London and reported in our last week's issue.

\section*{Markets}

\section*{Toronto}

Receipts at the Union Stock-yards, West Toronto, on Monday, March 16th numbered 69 cars, comprising 1,251 cat
tle, 1,155 hogs, 70 sheep, and 65 calves. Frade in'cattle early in the day opened


\section*{mation given. Receipts, commencing
with Monday last, were light, and each
succeeding day was the lomer \\ Milkers and
Springers.-The demand
was not nearly as strong for milkers} succeeding day was the same, but in the
cattle classes the supply was quite equal to the demand. Rupply was quite
lambs and calves, were lights of sheep, lambs and calves, were light, and prices
firm, but unchanged. Hogs were a litts \(\mathrm{fi} \mathrm{r}_{\mathrm{m}}\), but unchanged. Hogs were a little
more plentiful, as there have been several large consignments from Manitoba.
One firm, The Fowler's Cond Hamilton, received ten carloads at one shipment.
Butchers'.-Choice steers, 1,250 to
1,350 lbs., sold. at \(\$ 8\) to \(\$ 8,35\), but only 1,350 lbs., sold, at \(\$ 8\) to \(\$ 8.35\), but only
about four carloads during the week
brought these figures; good steers and brought these figures; good steers and
heifers, \(\$ 7.75\) to \(\$ 8\); medium, \(\$ 7.30\) to
\(\$ 7.60\); common, \(\$ 6.75\) to \(\$ 710\) che cows, \(\$ 6.75\) to \(\$ 7\); good cows, \(\$ 6\) to
\(\$ 7.50\); medium cows, \(\$ 5.75\) \(\$ 7.50\); medium cows, \(\$ 5.75\) to \(\$ 6\); can-
ners and cutters, \(\$ 3.75\) to \(\$ 4.75\); choice bulls, \(\$ 6.75\) to \(\$ 7.25\); medium bulls, \(\$ 6\)
to \(\$ 6.50\). Stockers and Feeders.-Receipts in
these two classes were exceedingly quiet but equal to the demand. Prices for
the best class of feeders, weighing fro 800 to 900 lbs., held firm, but the com-
moner grades were easier in price.. Best
steers sold steers sold at \(\$ 7\) to \(\$ 7.25\); good at
\(\$ .50\) to \(\$ 6.75\); stockers ranged 'from
\(\$ \$ .50\) to \(\$ 6\). was not nearly as strong for milkers
and springers, excepting for the choice quality. Prices ranged from \(\$ 50\) to \(\$ 95\) Veal Calves.-Receipts of veal calves coming forward
were unchanged. light, and prices
Choice veal calves were strong, at \(\$ 10\) to \(\$ 11\) each; good at \(\$ 9\) to \(\$ 10\); medium, \(\$ 7.50\) to \(\$ 8.50\); comSheep and Lambs.-Market firm and unShanged. Sheep, ewes,, \(\$ 6.50\) to \(\$ 7\);
heav \({ }^{\text {y }}\) ewes \(\$ 5.75\) to \(\$ 6.25\); rams, \(\$ 5.25\) heav ewes \(\$ 5.75\) to \(\$ 6.25 ;\) rams, \(\$ 5.25\),
to \(\$ 6.25\); heavy lambs, \(\$ 8\) to \(\$ 8.75\);
light, handy lambs, \(\$ 9\) to \(\$ 9.75\). light, handy lambs, \(\$ 9\) to \(\$ 9.75\). Hogs.-Selected hogs, fed and watered,
sold at \(\$ 9.25\) to \(\$ 9.35\); and \(\$ 8.90\) to \(\$ 9\) f. o. b.
off cars.

TORONTO HORSE MARKET.
Receipts of horses at the Union yards were fairly liberal, 165, or an increase
of 20 for the same week of 1913 . Trade was better than for some weeks, four carloads being sold and shipped to otlawa, Montreal, St. Jond Saskatchewan, besides several
land, and
other small lots in different parts of Onother small lots in different parts of on-
tario. The local city trade was also
quite active. Prices ranged as follows:

\section*{THE ROYAL BANK OF CANADA}

\section*{Caplal Authorized - \(\$ 25,000,000\)} Capitar Paid Up
\(\begin{array}{r}11.500,000 \\ 13,000,000 \\ \hline\end{array}\) Reaery Fund

130,000,0000
HEAD OFPICE: MONTREAL
Branches throughout every Province
of the Dominion of Canada.
Accounts of Farmere invited.
Sale Notee Collocted.
Savings Department at all Branches.

Drafters, \(\$ 200\) to \(\$ 250\); general-purpose horses, \(\$ 150\) to \(\$ 200\); expressers, \(\$ 150\)
to \(\$ 200\); serviceably sound, \(\$ 45\) to \(\$ 90\). BREADSTUFFS.
Wheat.-Ontario, No. \({ }^{2}\) red, 97 c . to
8c., outside; \(\$ 1\), track, Toronto; Manitoba, No. 1 northern, 99 9.c., track, bay
pofints; No. 2 northern, 98 c .; more at Goderich.
Oats.-New No. 2 white, 37c. to 38c.,
outside; 40 c . to \(40 \mathrm{c}^{2} \mathrm{c}\)., Toronto; Manioutside; 40 c. , to 40 दे c., Toronto; Mani-
toba, No. 2, 42 c .; No. 3, 41c., lake ports.
Peas. Rye.-Outside, 82 c . to \(\$ 63 \mathrm{c}\). Buckwheat.-73c. to 75 c ., outside.
Corn. rail, track, Toronto.
Barley. - For mailting, 54c. to 55 c .; for eed, 43c. to 45 c ., outside.
Flour.-Ontario winter-wheat flour, \(90-\) par-cent. patents, \(\$ 3.55\), bulk, seaboard.
1imitoba. flour-Prices at Toronto are: First patents, \(\$ 5.30\); second patents, bakers', \(\$ 4.60\) in jute.
hay and millfeed.
\begin{tabular}{l} 
Hay.-Baled, car lots, track, Toronto \\
\hline
\end{tabular}
straw.-Baled, car lots, track, Toronto,
\(\$ 8\) to \(\$ 9\).
\(\$ 22.50\) to \(\$ 23.50\), in
 middlings, \(\$ 26\).

COUNTRY PRODUCE.
Butter.-Receipts have been moderately large, causing prices to rule about
steady. Creamery pound rolls, 32. to 34 c .; creamery solids, 28 c . to 30c.; sepa-
rator dairy, 27 c . to 28 c .; store lots, rator dairy, 27c. to 28 c .; store lots,
24c. to 25 c .
Cheese. - Now old, large, 15c.; twins, \(15 \not\) t. \(^{2}\)
Honey.-Extracted, 9 c . to 10 c .; combs per dozen, \(\$ 2.50\) to \(\$ 3\).
Potatoes.-Car lots of Ontarios, 75 c . to. 80, per bag; New Brunswick Dela Beans.-Importec, track, Mand-picked, \(\$ 2.25\);
Canadian, hand-picked, \(\$ 2.25\); primes, \(\$ 2\). TORONTO SEED MARKET.
Alsike, No. 1, per bushel, \(\mathbf{\$ 8 . 5 0}\) to \(\$ 9\);
\(\begin{gathered}\text { alsike, } \\ \text { No. } \\ \text { 2, }\end{gathered}\) per bushel, \(\$ 7.50\) alsike, No. 3, per bushel, \(\$ 6\) to \(\$ 7\)
timothy, No. 1, per bushel, \(\$ 2.50\) to \(\$ 3\), timothy, No. 2, per bushel, \(\$ 2\)
\(\$ 2.25 ;\) red clover, per bushel, \(\$ 8\)
\(\$ 8.50\); red
hides and skins.
No. 1 inspected steers and cows, 13c.,
No. 2 inspected steers and cows, 12c.; No. 3 inspected steers, cows and bulls,
11c.; city hides, flat 13c.; country hides, cured, 13 दुc.; calf skins, per lb.,
16 c .; horse hides, \(\$ 2.50\) to \(\$ \$ .50\) each;
 FRUITS AND VEGETABLES.
Receipts of fruit home grown, were plentiful. Apples
Extra choice No. 1 Spies, \(\$ 5\) per barrel; No. 2 Spies, \(\$ 3.50\) to \(\$ 4.50\); Baldwins,
\(\$ 3\) to \(\$ 3.50 ;\) Greenings, \(\$ 3\) to \(\$ 3.50\);
Russets, \(\$ 3\) to \(\$ 3.75\); red, per sack, \(\$ 2.50\); beets, per bag, \(\$ 1\)
to \(\$ 1.25\); carrots, per bag, \(\$ 1\); parsnips, \(\$ 1\) to \(\$ 1.25\); cauliflower, per case, \(\$ 2.75\)
to \(\$ 3\); strawberries, 40 cc to 50 c . per
quart to \(\$ 3\) strawberries, \(40 \mathbf{c}\). to 50 c . per
quart boor; cucumbers, \(\$ 3.50\) to \(\$ 3.75\)
per case.

Montreal. Live Stock.-Oflerings of live stock on this is the Lenten season, and demand
that is consequently not at all heavy, the
market showed but little change in tone. Very little choice stock was offered, but the best sold at 8 zc c.; fine stock being
quoted at 7 za c. to 8 zac; medium at 6 f c . \({ }_{4}\) c. . Ter 4\}c. Ser lb. Milk cows continued in
good demand, but it was said that prices were slightly lower, outside prices being \(\$ 100\) each, and good cows \(\$ 80\) to \(\$ 90\). Prices were down to \(\$ 50\) each. Offering
 lambs, and 6c. to 64 c c. Ror sheep. Deranged, by the pound, at 3ife to to 7 tic.
onerings of new calves were light, but increasing. Hogs were in good demand,
and selected Ontario stock sold at 10c: per lb., while Manitoba hogs range Horses.-Enquiry for horses was better and quite a few changed hands. Horses Weighing \(\begin{aligned} & \text { from } \\ & \text { at } \$ 27500 \\ & \text { to } \\ & \$ 300\end{aligned}\) each; lo light draft, weigh- 1 , ing from 1,400 to 1,500 lbs., \(\$ 225\) to \(\$ 275\) each; broken-downt old animals, \(\$ 7\) riage animals, \(\left.\begin{array}{c}\$ 350 \text { to } \$ 400 \text { each. } \\ \text { Poultry. }- \text { The market was very }\end{array}\right]\)
 22c. to 24c. per 1b.; ducks, 186. to 18c.; and geese, 14 c . to 16 c .
Dressed Hogs. The market for dressed hoge was steady, prices being 18 ec. to 14.c. per tb.
dressed stock
dressed stock.
Potatoses. and stock was scarce. Green Mountains were 850. to 95c. per bag, ex track, in car lots, while Quebec varieties wero, 80 .
to 90 . In a jobbing way, prices were to 90. In a jobhing way, prices wore
20c. to 25c. higher, ex store. Bags weigh 90 lbe.
Honey aid
yet in the market. Tins of old syrup sold at 9c. to 10 c . per 1 lb. , whilo syrup in wood was c . . 1 sc ., and maplo sugar, 9 c . to 10 c . per lb. White clover
comb was 15 c . to 16 c . per lo.; extract
 Egsi.-Prices of oggs were about
14. steady. Canadian stock, strictiy fresh,
was 36c. to 37 c . per dozen, and Amer was 36. to
ican was 85 c .
Butter.-The market for butter was
fractionally higher last week. Choic creamery was 290. to 30c. per lb., wholesale, ane was 28 c . to 29 c. , while second
grades were 26 c . to
Ditic.
Dairy bute grades were
ter was afm, at 23c. to 24c. per lb. for
 Grain.-Oats were steady in price. No.
2. Western Canada oats were quoted at 2. Western Canada oats were quoted lots;
44c. per bushel, ex store, in car lots;
 42c. to 42 yc c. No. 82 American ace. Flour.-The market held Arm. Mani-
toba first - patent flour was quoted at toba first - patent flour was quoted
85.40 per barrel, in bags; seconds being \(\$ 5.40\) per barrel, in bags;
\(\$ 5.10\), and strong balkers,
\(\$ 4.90\). tario winter - wheat flour was armer, at \(\$ 5.25\) to \(\$ 5.50\) for patents, and \(\$ 4.0\),
\(\$ 4.90\) per barrel for straight rollers, in wood. milifed.-The market for millfeed was unchanged. Bran sold at \(\$ 23\) per on,
and shorts at \(\$ 25\), in bags, while midand
dings were \(\$ 828\) including bags. Mouille
and was \(\$ 30\) to \(\$ 32\) per ton for pure, and \(\$ 28\) to \(\$ 29\) for mixed.
Hay.-Prices showed no change. No. 1 pressed hay, car. . c
track, \(\$ 16\) to \(\$ 16.50\) per ton, while No. 2 extra was \(\$ 15\) to \(\$ 15.50\), and No. 2, \(\$ 13.50\) to 814. pretty pretty treely, but Rermers
Prices were: Timothy, \(\$ 10\) to \(\$ 11.50\)
wion per 100 lbs. , Montreal; red clover, \(\$ 22\) \(\$ 24\) per 100 lbs .
Hides. - The man changed market for hides was unwere 13c., 14c. and 15c. for Nos. 3, \({ }^{2}\) and 1 , respectively. Calf skins were
17 c c. and 19c. for Nos.
2 lamb skins, \(\$ 1.20\) to \(\$ 1.25\) each, with
horse hides ranging from \(\$ 1.75\) for No 2, to \(\$ 2.50\) each for No. 1 . Tallow sold
at 1 te. to ce. for rough, and sc. to \(6 \$ \mathrm{c}\)
for renderec.

Buffalo. Cattle.-Market made a good atart here
the past week. the past week. Receipts were moderate,
demand proved were enabled to raise prices somewhat. Towards the close of the week, however,
a snag was struck, and buyers had the deal very much their own wav, taking of all gains made at the start for the the here the past week sold from \(\$ 8.85\) - \(\$ 9\), and the top shipping steers at
hat could have shown far better Anish. that could have shown far botter finish,
A lot of warmed-up shipping steers still A lot of warmed-up shipping stears still
monopolize the market, comparatively monopoilze the market, comparatively
few being of the better - finished class,
Demand is Demand is strong for the high-percentage killing steers, and there are plenty of
authorities who think that the half-fat authorities who think that the half-fat
kinds are dear at the prices they are bringing, proving expensive in the beef. Feeding sections are getting cold feet on dition of the trade not just what they wish it. Foreign beef continues to reach weak, and the dope handed out the past hardly be expected to show better results under such conditions. A fear of lower prices is causing some feeders to turn loose, and too many of the half- and
three-quarters-fat steers, in consequence, are coming marketward. The feeder who has the real prime kinds, whether
weighty or handy steers, aitithorities say, as nothinge to lear, chey are wanted, and the prices are paid, but in is being shied at, and indications point to the lower level, so some sellers think. Stock
and feeding cattle are being disposed at and feeding cattle are being disposed at
high prices. Feoders are bringing \(\$ 7\) to 57.50 , with butchering steers carrying some flesh, at \(\$ 7.75\) to \(\$ 8\). The spread
seems inconsistent, but the feeders are buying stock cattle, and the butchers are laying down on the warmed-up lellers. Bulls, are the highest commodity mar-
keted, sausage bulls being in especially good demand from the East. Mrikera
and springers are showing some improvement, mostly on the real good
kinds, however, medium and commoner kinds, however, medium and comon', Weik's
ones being continuoul weak sale. Whe recelpts, 8,
Quotations :
Heavy steers, prime to choice, \(\$ 9\) to S9.25; heavy steers, modium to good, \(\$ 8.25\) to \(\$ 8.75\); butcher steers, sood to choice, \(\$ 7.75\) to \(\$ 8.25\), butcher, stach, steers, common, \(\$ 7\) lto \(\$ 7.25\); best cows,
\(\$ 6.50\) to \(\$ 7\); fair to good cows, \(\$ 5.50\) \(\$ 6.50\) to \(\$ 7\); fair to goo to \(\$ 5\); canner
to \(\$ 6\); cutter cows, \(\$ 4.50\). cows, \(\$ 8.50\) to \(\$ 4.25\); good to choice mon, \(\$ 5.25\) to \(\$ 5.75\); best stockers and feedors, \(\$ 6.75\) to \(\$ 7.50\); fair to good,
\(\$ 6.25\) to \(\$ 6.75\); common, \(\$ 5.50\) to \(\$ 6\) : \(\$ 6.25\) to \(\$ 6.75\); common, \(\$ 5.50\) to \(\$ 6\); stock bulls, \(\$ 5.50\) to \(\$ 6\); bologna bulls;
\(\$ 6.50\) to \(\$ 7\); fat bulls, \(\$ 6.50\) to \(\$ 7.50\); best millkers and springers, \(\$ 65\) to \(\$ 85\); common, \(\$ 40\) to \(\$ 50\).
Hogs.-Range was narrow the past
week, being from \(\$ 9.10\) to \(\$ 9.25\) for the week, being from \(\$ 9.10\) to \(\$ 9.25\) for the
first five days. Market was unsatisfac tory, and on Fridey buyers got some as low as \(\$ 8.60\). High time for the pas
week for pigs was Monday, the bulk sellweek for pigs was Monday, \(\$ 8.25\) to \(\$ 8.50\) stags, \(\$ 7\) to \(\$ 7.50\). Receipts the past week, 25,120;
Sheep and Lambs.-Lamb market re acted lore part of the past week, Mon-
day tops selling mostly at \(\$ 8\), while Tuesday they were jumped to \(\$ 8.40\). Trade afterwards proved very unsatisfac
tory, and several cars were carried over tory, and several cars were carried the from day to day, buyers geting
best lambs Friday at \(\$ 7.85\) to \(\$ 7.90\), with a few at \(\$ 8\). Cull lambs first of
week sold up to \(\$ 7.75\), and latter part week sold up to \(\$ 7.75\), and latter part
went from \(\$ 7.35\) down. Sheep prices went from \(\$ 7.35\) down. Sheep price ing from \(\$ 6.25\) to \(\$ 6.40\), with ewes trom on Friday best yearling wethera dropped to \(\$ 7.10\) to \(\$ 7.15\). Receipts for the
past week were 21,800 ; previous week, past week were 21,\(800 ;\) prevo
33,\(400 ;\) year ago, 26,400 . Some aut 33,400 ; year ago, 26,400 some au-
thorities think that lambs are the toboggan, and that values will go off, some predicting \(\$ 7.50\) lambs for March.
Calves.-Prices were steady Calves.-Prices were steady frst 10 ur days last week, tops selling from \(\$ 11.50\)
to \(\$ 12\); bulk \(\$ 12\). On Friday, velues to \$12; bulk \(\$ 12\). On Friday, values
took a tumble of 50 cents, majority of to tops going at \(\$ 11.50\), with culls
\(\$ 9.50\) down. Fed calves, \(\$ 5\) to \(\$ 6.50\).

Receipts for the past week were 2,100
previous week; 1,800 ; year ago; 2,225 No Canadians. White. Eggs.-Active and steady. White.
fancy, 32 c . fancy, 82 c .
Live Poult
Live Poultry.-Turkeys, per 1b., 20c, to
22c.; fowls, choice, 180 .; fowle, fair to. good, 16 c . to 17 c .; chickens, por 1 bb ..
17 j . to 18 c .; old roosters, 18 c , to 14 c ; 17 ijc . to \(18 \mathrm{c} . ;\) old roosters, 18 c . to 14 c ;;
ducks, per 1 bb ., 20 c . to 21 c .; geese, perlb., 15c, to 18 c .
Potatoes. - Trade light; steady. White, Pancy, per bushel, 766 .

\section*{Chicago.}

\section*{Cattle.-Beeves, \(\$ 7.15\) to \(\$ 9.70\); Texas} steers, \(\$ 7.10\) to \(\$ 8.15\); stockers and feed
ers, \(\$ 5.60\) to \(\$ 8.10\); cows and helfers \(\$ 8.70\) to \(\$ 8.50\); calves, \(\$ 7\) to \(\$ 10\), Hogs.-Light, \(\$ 8.05\) to \(\$ 8.95\); mixed, \(\$ 8.65\) to \(\$ 9\); heavy. \(\$ 8.50\) to \(\$ 8.92\) : rough, \(\$ 8.50\) to \(\$ 8.60\); pigs, \(\$ 7.25\)
\(\$ 8.70\); bulk of sales, \(\$ 8.85\) to \(\$ 8.90\), Sheep and Lambs.-Sheop, native, 84.80 to \(\$ 6.30\); yearlings, \(\$ 5,80\) to 37 ; lambe. native, \(\$ 6.80\) to \(\$ 7.80\).

\section*{Gossip.}

OHANGE OF DATE.
Do not fail to motice the qhange of from March 25th to March 26th

At Kingaley, Iowa, March 5th, soventyone head of Herefords, from the herd of 5996, the highest iprice betig \(\$ 1,500\), for the three-yoar-old bull, Beight Lord. The yearling bull; Beau Shade, sold tor \(\$ 700\). Thirty-two bulls averaged \(\$ 800\).

At a sale of Herefords, at Kansas City, Mo., March 8 and 4, from the herde of Funkhouser, Gabbert, and others, 114 head averaged s210. The highest price attained for a bull was 81,000 , for the yoarling Beau Dare, by Paragon 12th, and the highest for a female was \$340, for the four-yent-old com, Belle 8rd.

Attention is directed to the now advertisement in this lasue of the auction sale to take place on Thuraday, March 26th, by T. Alez. Lawrence, of Thamesville, town, of Clydesdelo stallions and mares, imported, and bred from imported atock, mported, and grandly-bred horse, Prince Roasld (imp.) have weighed over 2,100 pounder chlso Sour gindral-purpose mares in foal, and
sevaral colty rising three and four years.
stock sale dates claticed. March 24th.-Bales Bros., Lansing, Ont.; Holstelns.
March 25th.-Oxford District Holatoin Olub; Holsteins, at Woodstock, Ont. stock, Ont.; Holsteins; dispersion. April 9 th.-P. J. Salley, Lachine Raplde, Que.; difpersion sale of Holsteins: 8, Mrarch 26 th. -P. S. Riddell, R. R. No 8horthorna. Ont.; Holsteins and grede Shorthorni. 26 th. - R. MeCormick \& Son,
March
Paris, Ont.; pure-bred and grade shortParis,
horns.
March March 26th.-T. Alex, Lawrence,
Thamesville, Ont.; Clydesdale stallions and mares. Ont.; Clycesdale stallo April 3rd-J. Loyd Jones, Burford dairy cattle.

Trade Topic. Attention is called to the advertise
ment of the Hewer Seed Co., of Guelph Ont., in this iswer Seed Co., of Guelph, choice seed to the trade this spring. cents per pound, or 10 pounds for \(\$ 1\). appears as \(\$ 1.15\) per pound in this issue. Alsike clover is \(\$ 13\) per bushel, instead
of \(\$ 3\), as published in the advertisement.
the tenderest blaies, in the morning, or In the air is the sound of the axe and stand dreamily chewing their cud at sun- the saw, converting longitudinal wood-
down, the lambs betake themselves to a pilles into long, narrow lane, and run races at top phos into pyramidal ones that exude a speed. Back and forth they tear, their In the woods is the smell of apring. No feet seeming hardly to touch the ground. hint of green as yet. No pink budding Sometimes one will execute a series of in the maples. For it is the sugaring clastic bounds in the air, a foot or more season, and only the prescience of spring
high, little black head waggishly shaking to be sensed. Work -the rest critically watching. Then an- too, but such work ! Top someone here, other will perform, going a little farther, maples under flying gray March clouds. and bounding a little higher, or, as a gathering sap while the dawn can still special feat, giving his body a comic be tasted and the crust "holds"; boiling twist mid-air. Then they will set off, it down through successive corrugate

"This is not work, it is-Sugaring
the sugar shanties; peddling the bright tiri cans of syrup, and cakes of milicedusted gold, this is not work, it is
sugaring. But ite and the delighttu sugaring. But it, and the delighttul out-in-the-woods parties which it makee The next thing to appe
er's horizon is the sheear - shearer farmgoes from flock to flock shearer. Ho country, and is extremely jealous of hi reputation for shearing so jealous of hit reputation for shearing so many per day
without cutting them. The number varies, twenty sheep representing an average man's work, forty the skill of al oxpert. The sheep, even the young ofros, appear to know what is coming, and, like their biblical progenitor, are dumb throughout the deft process of clipping
off their heavy, hot coats. For some unsolved reaso
ers are always garrulously inclined, and possessed of a fund of stories treating of many phases of farm life. Their point is apt to be colored by personal bias According to their code, it would be the acme of all that is undesirable for a man appointed by the Government to watch examples during the close season to make an example of a neighbor caught in the act
of poaching. "Tell on Tom?", sheara suspended indignantly, "Why, that would
By the time he has betaken himself and his stories elsewhere, the crows are no menaces to crops. The trees have burat into mists of green. Bulb and seed catalogues are cansing emulative gar deners to don straw hats and sally forth to wage fierce wariare upon quack grass and crocuses are out, the robins busy with their nests. Intermittently voicoo men ploughing or getting in crope pervades the air. A smell of burning pervades the air. Wherever one goes, wherever one looks, life,
summer on the wing.

\section*{Garden Preparations,}

I have received in the last two week winterd catalogues 1 In the midst of whiff of summertime, and make one think of strawberries, and asparagus, and flow-ers,-above all, flowers. If you,-and by of sufficient anyone who finds this cially farmers \({ }^{\circ}\) wives and deughters,have not one or more of these harbinger of spring on hand, ' please do send for or any of our reliable seed firms, issue splendid catalogues.
If you have not the time and monel to spend on large flower and vegetable gardens, do at least try one or two beds of flowers. Lay a trench of sweet peas, poppies, with a few climbing vines, like nasturtiums or canary-bird vine (a very pretty, bright-green mass of foliage, with delicate little yellow flowers, a tende annual), or even morning-glories agains
your verandas, fences, and your house. I cour verandas, fences, and your house.
I could, of course, mention dozens of beautiful flowers, but many of the most beautiful are difmoult to start.
If you have never gone in for vege If you have never gone in for vege-
tables much, just had perhaps, potatoes, cabbages, and a few roots, just try some extras this year and see what a wonderful difference it will make to your table; yes, and to your digestion, too.
Plant your vegetables "where the men can cultivate them frequently with the one-horse cultivator, putting your rowi done, and you will not find the weeds very hard to subdue. But do not, if
you can possibly avoid it, have your you can possibly avoid it, have your
vegetable garden between your lawn and

MARCH 19, 1914

\section*{THE FARMER'S ADVOCATE.}
the road, or if you live a distance from
the road, your driveway. Consider the the road, your driveway, Consider the a lawn, but have felt that it was really
to much work to too much work to keen it mowed al summer, and so have not even got a
lawnmower. Get one this spring; start lawnmower. Get one this spring; start early before the grags gets too long, and
it the lawn fo rough, roll it a fow times then mow it about twice a week if the growth is healthy and rank. You will soon be proud of your neat lawn, and and that by cutting before the grass grows long, the work will notebe heavy.
I wish I could just pop in and help everyone, or anyone who contemplates a
lewn and flowers for the first time tnis year.
If your house is gray and shabby, give It a couple of coats of paint. It wil preserve the wood and make a wonderful
dirference in its appearance. difference in its appearance, That is,
unless you paint it green, with yellow uniess you paint green, with yellow bination !
When I married and came on the farm Cour years ago, I knew next to nothing about flowers. Our house was not all
built yet, and stood in a rough, stony yard, surrounded by a mass of noxious weeds that stood as high as I did, ragweed, thistles, goldenrod, catnip, nettles, neat Now, I am happy to say, I have and the house is painted, and has verandas covered in the summer with climbing roses, clematis, and various an-

There were no smail fruits when I first came. Now I have all the strawberries, raspberries, etc., we can use, and more. a hotbed, and start all my tender plants in it, also some early lettuce and radishes. After the initial outlay is paid, nitely, is a real economy, as you need
buy no plants at all, and can raise just what you . wish, and a greater variety than one can usually got from a florist or gardener.
When the seed catalogues come, I take a large sheet of paper and draw a plan what flowers to order, just where I shall put them, so that I may have a harmonious color scheme.
Ot course, I have a perennial border,
and add to it every year. I love my spring flowers best of all and have a great many tulips, narcissus,
crocus, hyacinths, etc. Last summer I crocus, hyacinths, etc. Last summer I good, strong agus-bed made, and planter good, strong, two-year-old roots, so this
coming summer we look forward to a great treat.
pleesure canot tell you what a very great vegetables are to me. Just try it and see if pushing the lawnmower and pulling
weods. and even carrying water in dry weeds. and even carrying water in dry ures your eyes and nose and palate will ares your eyes and nose and palate
receive all the year around nearly.
For, think of the vegetables and canned
fruits and jelliea such a garden will yield for the long winter months ! And to those who have al these things, and who old world a make our country and this ago-push on
We need flowers and sunshine and thing.
If people who work so very hard and save so very "close," and don't improve,
but, instead, put every cent they can screw out of their land in the bank, time and money in enjoying lite a little ing their money in enjoying life and makIf farmers generally would take a pride
in good fences, and have as few weeds as possible, and do what they could to have good, comfortable farm buildings, ine? Numbers of them do, indeed but some do not I I wish the day would come-it will, I believe-when we can
drive through this Province mille after other part say with pride, "Could any old Ontario of ours ! Noat thls grand I wish some kind and liberal - minded \(\mathrm{lor}_{\text {t }}\) the best-kept grounds and gardens as some have done. It is a splendid
idea.

Travel Notes
(FROM HElen's diary
They no sooner Munich, Jan. 25, '14. right thing in Munich than they start right in on something else. they start
always "something that calls for bands doing," something pomp and ceremony and soldiers, and aimless you may be when you go out por a promenade, the sound of music puts life into your steps, and the sight
of a street and enthusiasm, so that your curiosity what you are , so that before you know

Kunich Actors' ball; Museum ball; Merchants' ball; Artistn' Union ball; Artists' Teachers' ball; Munich. Carnival ball; Press Club Rowing Club ball; Austro-Hungerian Aid Society ball; Present and Post-graduate Students of Academy ball; German Art ball. Bents Union ball; Arts' and Cratts' masquerade all these, there are Saturday night at the Deutches Theater and balls innumerable at all the places is public entertainment. The whole clity is dancing mad.
The unique feat


The Schaeffertanz.
your way through the crowd trying to nival is the Schaeflertans, which only find a good vantage point to see the takes place once in seven yeara. It is Just now, Munich is celebrating the the men who make the beer barrele, Carnival, which lasts for six weeks and During the entire Carnival season, these ends at Lent. This is a very gay sea- men spend their days (and very often
son here; conventions are more or less their nights) dancing. For. each perdiscarded, and reasting, dancing, and formance they dacelve a stipulated pum hilarity, are indulged-lin to an enormone of money.
extent. Masquerade and costume balls The origin of this dance is historic, are one of the main delights of Carnival- and goes away back to 11517 , the yeer
time. It ts estimated that during this of the gleat plague. which played suel time. It is estimated that during this of the gleat plague, which played sueh period there are over four thousand balis
 rated, and all are oflering special at- malady was brought into. Munich by that


A Futurist Picture of an Express Train Going Sixty Miles an Hour. dances. The Doutches Theater - which, quarters in a deep well in Marien Platz, during the rest of the year is a popular Carnival exclusively for social functions. All the most important balls are held there, including the magnificent Charity Ball, which is especially gorgeous, being attended by the. King and the nobility. Every society and organization in the city seems to period. I picked up a list of festive period. I picked up a list of
balls to come the other day, and here are a few of them :
The Singing Guild ball; the Art Academy ball; Charity ball; German Actors
Union ball; Zoo Benefit ball; Society of
and by its poisonous braath so polluted
the atmosphere that 15,000 people perished. So terror-stricken were the thewnspeople that they refused to leave save for funerals, and no stranger came within the gates. Atter a time the
plague ran fits course plague ran its course, but the people
were still so paralyzed with fear they would not budge from thelr houise Then die Schaeffler mot in thefr inn and debated as to what should bo done. They decided that the terrified citizens needed, above all things, to be cheered
ject in view, they organized a Afo-and drum band, marched couragebusly torth singing desolate streets, dancing and sorrowful people hurried to the doors and windows at the unwonted sound, and when they saw the gay procession and over, they swarmed out into the streets again and joined in the general merrymaking. Ever since that time the
Schaemertanz, has been celebrated every seventh year. Apropo of this, the wite have coined a phrase: "Die hat auch schon ihre sieben oder, acht Schaetfertaenze aut dem Buckel"-which refers to age, and means that the person spoken of has seen "seven or
teenze-a phrase equilent to our own
slang expression, "She'll never see forty slang expression, "She'll neyer see forty again:"
In this dance, about twenty-ight men take part; theire are also two clowns,
and peveral special performers. The uniform worn is very gay and fantastio. it conisists of a green cap with white and blue feathers, a red coat with cilver trimmings, white vest and stockings black knickers, and low shoes with large
silver buckles. In theif hands they carry arch-shaped green boughs.
The dance steps are more or less icomplieated, end there are many initricate Agures, all of which have some symbol stic meaning. Occasionally the dancers sing and shout, and do some fancy high
kicking around i diminutive beor barrel, which playis an important part In the performance: The orliginal dance ravaic is used-the same old tume that is rung out daily by the Oity Hall chimes at
eleven o'clock in the moraing. Simul eleven o'clock in the moraing. Simuk
taneously the automatic Sokieffler away up in the clock tower begin to dance. they stop, an automatic coolk still hlgher up in the tower beging to fap its winge
and orow in a bumptious and offlelal manner, though why, or what for, i know not.
Every morning a gaping crowd of
touriats gather in the street opposite courists gather in the street opposite the City Hall to watch this mechanical
exhifition. It is ond of the slghts of the town. But very few of the sightseers know of the intimate historio con-
nection between the giganfic, grotesque Iatone dragon on the corner of the munie-
ipal building, and the danding autome ipal bullaing, and the danoing automar-
tons away up in the high clock tower. The opening Schaemer dance of the in the grounds of Wittelsbach palac, whare the King in at present in reat-
dence, it boing the time-honored custom to give the Arst performance before belore the residences of high functionariea and notabilitile, and when they have all over fancy loads them, or the lure of gold invitea them, for none of their per-
formances are gratultious. In the daytime thoy-dance in the street or fir the grounde of private residences, but at
night they aing the nimble foot at balle and plecen of entertainment. palace grounds. Our pension beling only a block away, we dragged chatirg to a good viewpoint, and by standing on surging moob in the etreet. The king balcony just above the two battered old lions that guard the royal portale. At though it was a cold, logey morning, an the adjacent streets were and all the getatable windowAs the weeks go on the Carnival splitit becomes more pronounced. Night is urned into day; the absurd and grocesque is everywhere apparent; : the shop
windows are britiant with minduerade costumes, brass joweiry, and glase ditemonds. The malin tople of convernation s of festivities past, present, and to come. The gay life in the cafes begine dewn. Bands of ro,licking students go singing through the streets at all hours of the night, sleep being the one thing that Carnival celebrators have no par ticular use for-at night.
It talkes forever and a
any place in Munich-il you go by the shanks-mare-route. The reason is, that unless you are either blind or vert strong-minded, you simply can't got past
such an art here that even the meat shops get up displays that draw crowds.
Whenever I men in front of a store window I know they are gazing at sausages, of which
there are hundreds (perhaps thousands) there are hundreds (perhaps thousands)
of varieties in Germany; whenever I see a group of women in ecatasies before a hugh plate-glass window, I know instinctively it is costumes or hats they are looking at; but whenever the group
is mixed, I am positive it is an art is mixed, I am positive it is an art
store. One does not need to go to the art galleries in Munich to see the great
masters; the streets are lined with them -reproductions of all alzes and prices, Prom postat cards up. Nover saw so
many art stores; seems to mo about many art stores; seems to mo about
every fifth store is dedicated to art. And, by the way, one of the most popuseen in almost covery window, is by a young Canadian artist-Paul Peel, of just as he was becoming famous. The picture referred to is called "After the Bath," and depicte two charming little
nude girls warming themselves in the nude girls warming themselves in the:
bright glow of an open fire. bright glow of an open fire. They ar
seid to be the artists' own children, There is one special ant store Munich which always has a crowd in front of it. It is the plece where the latest pictorial atrocities in Futurist and
Cubist art are display that window has become alay. Gaxing a that window has become a perfect obsees
sion with Uncle Ned. He will stand in tront of it spelibound for heit an hour and then go back and take another look. It is not becanse the likes the thing exhibited-oh, no t-but because they are
ao bailling. They keep him guessing. Io bafting. They keep him guessing. knows what they are meant for. Every tew deys the plectures in the window ara changed, so one's interest nover flags. At first the pictures strike you as hide-
ously ugly. regular color nightmares, ously sugly, regular color nightmares,
great dabs of peint apleshed ou the canvas as if done by a blind lunatic in a state of freny, But, after you have
studied the plotures for studied the ploturen for a phite, you really beghn to see thingey and then you
nee more things, and it you have any fmagination you can sometimes really believe that you. see something. The trouble ls, no two people seem to see
the same thinge in the pictures. Uncle Fed and 1 fell into guite a hot dispute one miorning over a glaring canvas in the midiow. What he thought was a reffective cow in the foregrouind, seemed to me to be quite unmistakably a womian Finally, in order to prove that he was right, he atepped inside and inquired, and Wae told that the subject of the picture was "Early Spring in Bavaria." How-
over, ho still insists that the woman is ever, he
a cow.
Aunt Julia's rheumatism and temper sure we will be headed for Wiesbaden before many days. I wish there was a sanatorium where paople could go and get their tempers cured, because I have an dea that it isn't the rheumatism
that causes the temper, but the temper that causes the rheumatism.

\section*{Hope's Quiet Hour.}

\section*{Giving Thanks Always} Singing and making melody in your
heart to the Lord; giving thanks always for all things.-Eph. v: 20 .

Thanks be for life that lives Thanks be for death that gives Ending to life.
Song of the silence born
Song of the silence born
Freedom of thrall,
Spirit from flesh outworn-
hanks be for all.
A few weeks ago I heard a brave ser-
mon preached in the Toronto General mon preached in the Toronto General
Hospital. Phe preacher looked tenderly people, and urged them to rejoice always It takes courage to endure pain without a murmur, but how much greater courage
it takes to be glad in and for the pain. such a possibility-and \(I\) told him so-
sol
how much braver are those whe rejoice
when called to share in the sacred fellowWhen called to s
It is easy to see the glory of the
martyrs-it is far from easy to endure martyrs-it is far from easy to endure martyrdom with a true martyr's joy, and

For the glory and the passion of this midnight.
praise Thy name, I give Thee thanks, Thou OChrist I Thou that hast neither failed me nor Through these overpriced: Now that I, too, of Thy passion have
partalen,-" partaken,
A few days ago a sick man sald, to
phe said : "The spirit of our men and women in California during this trial has to have such a disaster to witness the esurrection of such a spirit." It is almost always so in the time of spere testing. Human nature responds and herolsm is far more common than we are apt to think. But great occasions don't come very often, nor last very
ong. Our chiel business is with the ong. Our chiel business is with .the
commonplace deys. Why Bhouldan't we polish them up and make them shine? The sick man need not wait for health, the troubled heart for relief from care. Anyone can give thanks for pleasure; as
Christians we are called to a grander Christians we are called to a grander
task than that-to give thanke for the discipline through which God is shaping character.
I remember once sitting beside a woman who was dying of cancer. She talked eagerly about the new life ahead, and course, he is happy. Anyone who is well who was dying of cancer. She tallied
has nothing to complain about." There eagerly about the new life ahead, and
was a great deal of truth in the remark, oven spoke cheorfully of the dark pas
and yet it is possible that the man he sage. Her hand, was clapped closely by
was envying thought he had his full her loved Master, and she wae overfow-
whare of troubles and worries. If we ing with joy at the thought of seeing course, he is happy. Anyone who is well who was dying of cancer. She talked
hes nothing to complain about." There eagerly about the new life ahead, and
was a great deal of truth in the remark, oven spoke cheorfully of the dark pas
and yet it is possible that the man ho sage. Her hand, was clapped closely by
was onvying thought he had his full her loved Master, and she was overfow-
whare of troubles and worries. If we ing with joy at the thought of seeing was envying thought he had his full ghare of troubles and worries If we are going to wait until the whole world Himm face to face.


After the Bath

\section*{By the London, Ont., artist, Paul Peel. A favorite picture in Munieh.}
is arranged to our liking, before we We are all bound by our habits, there learn to be happy and thankful, there is fore it is important to fore good habits
small chance of our finding happiness in and conquer bad ones. I don't often
this world. this world.
Perhaps we had better begin at the
other end, and count our blessings in other end, and count our blessings in-
stead of our troubles. When they are all remembered, and God has been to count up our troubles-probably there are only half a dozen, at the outside, while the blessings are innumerable. which so many of us accept day health, which so many of us accept day by day
without a word of thankfulness to the Giver. After the terrible earthquake in
California, many who had lost all their property would be ready to echo the reply of an old sea-captain, who was
asked about the welfare of his family He lifted his cap reverently and ana family escaped, with its ranks un-
broken, the loss of broken, the loss of property seemed a comparatively trifling matter.
One who witnessed the
preach about self-examination, but it cer-
tainly is wise to take stock of ourselves sometimes so that we may know the enemies we have to fight. It is not easy to break a habit of faultinding and to establish the habit of thankfulness, but
it is possible by persistent
Ingratitude is a hateful sin; let us be careful lest we fall into habits of ina day or two of unpleasant weather, for getting to thank God for many fine days?
Do we make a fuss if anything wrong. in the household arrangements
wrong in taking the daily work of the busy house keeper as a matter of course?
The woman who makes the most every trifing ailment or 'discomfort, in
sisting on sympathy from sisting on sympathy from everybody if
her head aches or if a teacup is broken
does not does not know how this apparently harn
ing. Perrhaps she wonders why her husto got away from home. She complains that other people have good times, and nothing pleasant ever comes her way. And yet it is only the habit of faultind is not really as unhappy as she thinks. She certainly is not proving herself "great woman," like the washerwoman Who did not grumble when her line brokemud. there is some "credit in the Jolly" when good work has to be done all over egain.
Let us open our windows and let the glad sunshine stream into our lives-the face of the God of Joy. Dull live the not only a misery to the people who live them, but they depress other people and injure their soul-growth. No one can tell how far his light may shine, nor how many people are cheored by his happy her city lodging one day, when she heard a child's pleading voice from a fourthstory window opposite: "Please don't forget to light your fire to-night." There was a sick child, in a bare little room, who was alone all day and 8 ot night he watched for the light in the room opposite, and when it failed to appear he found darkness dreary. It is not always easy to keep the fire of glad thankfulness burning, but those who infand brightness into other lives.
Wo all can be happy if we try hardenough. "The secret of life is not to do what one likes, , but to try to like what like it, at least we can always thank God for it. Our business in this worlo is not to have a good time, qut to grow daily more Christlike. How thanktul we not allow His precious Refiner Who will uncut and unpolished, and who holds His gold in the fire until the dross is burned away. Let us try to learn the loy of the martyr :
ho lying in God's arms hast learned The slow, sad
The slow, sad hours with smiles, and set
thy face
Still as an angel's to the bitter grace
Of the sharp strokes wherewith He chasOf the sharp strokes wherewith He chasHis best-beloved
hand."
DORA FARNCOMB.
Rural Districts Neglected. Wealth gravitates to and accumulates tress and for, social uplift is spent there nuch suffering and misery in rural diotricts that is not attended to, and conditions that are manilestly wrong; drift on for years until children grow up to and to perpetuate in their oflspring the nly life they have known. An appeal was made to a clity benevolent orgazizaoighboring district for a lamily in a neighboring district. The request was refused on the ground that the city pooth
needed afi they could get. Much clothing and relies distributed in the city goes to families where the chief cause of distress is drink, and it is always dimof city families, and prevent indolonce and fraud. Strange to say, also, well-to-do people in the country send their charitable contributions to large city charities, ignorant of or indifferent toward the wretchedness they might sub There is need for organized social worl in rural districts, and a judicious ex penditure of funds. How can this be brought about, is the problem.-J. J

\section*{"In the Garden With Him'}

\section*{By Dora Farncomb, author of "The
Vision of His Face." Cloth, with gilt} lettering, 75 cents; postage 5 cents. The William Weld Co., Limited, London, Canada. English Edition, with intro
duction by Bishop Watts - Ditchfield Cloth, 3s Gd net Rober Scott, 62 Paternoster Row, E.C
(Bishop of the new diocese of Chelms the Gardep is pictured with true and de hightful delicacy by Miss Farncomb.
In the Garden all our life we can In the Garden all our life we can'fin
God walking, not only in the cool of God walking, not only in the cool of the day, nor does as the Master to the garden of olive tithes, but He is ever present 'all the days.'. .. Each chapter in the
book is a walk down a fresh path. In book is a walk down a fresh path. In
the garden there is a fragrance from the the garden there ts a fragrance from the cause it is that aroma, faint and subtiy suggestive, which draws us nearer to examine the blossoms for ourselves, to walk
ourselves In the Garden With Him ourselves Th the Garden With Him,
which surely is just what the author which surely is just what the author
deastes. "To all who love the Lord, I heartily
commend this little book. Here they will see Him, speak with Him, and He with them. not like Mary thinking Him to be, but knowing Him to be, the Gardener, through whose tender care we
shall some day be brought into the Para-
dise of God."

\section*{Another Donation.} Thave recaived \(\$ 2\) from A. M., to use
tor some of my poor people. Many Ior som
thanks.

\section*{Cheer up Brother.}
(By one of "The Advocate", reenders.) oo smiling through the world, my dea
Though troubles come thick and last seems easier for you to shed a tea But the trouble will not last

Sometimes the road seems dark and long, There are weary hills to climb, The view at the top is sublime.

There's sweetness in pleasure atter pain, Though it makes the teardrops fal Is a. lesson to us all.
So, though the road be dark or bright, To-day may seem like the darkest night, To-morrow it will be day.
But this is easier said than done I know, for I've been through the mill, Who said, "I am with thee still." Our troubles are a lesson to us all,
Without them we forget our God, Without them we forget our God,
Remember the Lamb Who was sacrificed, And the rough road He has trod.

He careth, oh, so much, for you Remember the sparrow's facl-
So, whether the sky be black or blue, His angels guard WILD ROSE.

\section*{The New Public Health.}

The Farmer's Advocate", Bureau of Public Health Information.
QUESTIONS, ANSWERS, AND COMMEANTS.
Conducted by the Institute of Public of Western University, London, Ontario.)
Established and maintained by the Ontario Provincial Government.
[Questions should be addressed: "New
Public Health, care of 'The Farmer's Advocate, London, Ont." Private ques tons, accompanied by a stamped, self addressed envelope, will receive private
qniswers. Medical treatment or diagnosis for individual cases cannot be prescribed.

\section*{More About Foods.}

Elmplest used in the body are for depends upon the analogy that all Hiving things need This is not juerely an illustration: fur naces burn things (coal, wood, kerosene gasoline, gas, etc.) which are, chemically,
not at all unlike foods; they are made
up of very much the same things, carbon,
hydrogen, oxygen, that most foods are made of in part.
All these ordinary fuels, as they burn, produce carbonic acid and water chiefly. Burning is merely a word we have for things : oxygen chembining with other makes : oxygen combining with carbon water, In ordinary fires, the combination is so rapid that heat is produced although the point of visible flame; but thing burning unless flames are produced slow burning goes on ostere produce flame. Rusting of iron, for instance, is slow burning of the iron; that is, a no flame combination of fron with oxygen, no flame and very little heat (so far as
our ordinary senses tell us) appearing. our ordinary senses tell us) appearing
The lheat is produced, of course, but so very slcwly that it passes of as soon as it is formed, and therefore does not accumulate anywhere sufficiently for us to
notice it. This kind of oxidation or notice it. This kind of oxidation or body, not so fast as an ordinary furnace. body, not so fast as an ordinary furnace,
much faster than in ordinary rusting of iron. Food produces heat that is quite
noticeable. Enough to boil a big tubful noticeable. Enough to boil a big tubful of water every day is produc
man who works fairly hard.
FUEL FOR BUILDING PURPOSES. Our body-furnace does not use food only for fuel, but also to replace the furnace
itself, parts of which are alwa) "burning out"; and even to make the furnace larger, as when one is "putting on" muscle; or when children are growing up Think how much lood a child must use to grow in weight from ten pounds when
it is born, to 170 when it is an adult The difference, 160 pounds, is often added by the time the boy is sixteen years old, a good, big, husky boy, that would be but nothing very unusual. Ten pound a year, say, on the average, is added by
rapidly-growing children, besides all that is burned up. This means all the protein in fifty pounds of healk added directly to the body every year. THE FUEL MUST BE DISSOLVED IN Because people eat "solid" meat,
"solid" bread, etc., they do not always remember that all they eat in the true sense, is really a very, very thin soup.
Food is not added to the body merely by swallowing it; it must be broken up
fine and finer, and most of it must be dissolved in the blood itself, before it can reach the real feesh and be aded "feeding"
from the blood. Our true does not occur through the molth at the does not occur through the mouth our arms and legs and other parts, most of it after dinner-time is oyer
We really Are water antilals. We, the pait of te thet really and truly feeds, our living flesh, is bathed all the time internally by a colorless, salty liquid, called the carries the food to the the bloodvessels, fesh, the cells of which
lymph and our
we are made, soaks up the dissolved foods from the lymph.
Germs and very small vegetables and aimals obtain their food by soaking it around them. . Just so our cells take up heir nourishment from the water(1ymph) that surrounds them. Thus, in a way, we are sea-animals turned ins of us, instead of outside, but getting our nourishment from it in just the same way.

OUR FOOD-GRABBING HANDS.
We use a good many different kinds of otc., as food, grind them up, digest them, turn them in solution into the blood, and oak them up finto ourseives from the iymph. But, alter all, these very varyclasses of foodstuffs, protein (the princlpal foodstuff in lean meat), starch, sugar, lat (and oil), salts, water. These are much changed before they reach the
lymph; changed in the digestion in the intestine, and perhaps elsewhere. But tain each its chitef characteristics. The thing that makes a food different from other things that this : a food has a sort of chemical handle that our cells can sort of chemical The same thing is true of poisons. Nothing can poison you unless it has a chemical handle that your
of lood has a different shaped handie, of chemical hands; one kind forent kinds of handle. The hands that dan talce hold of the protein handle cannot take hold of the carbohydrate handle; and so on. But the same handles that take hold of foods sometimes happen to fit
the handles of certain poisons also the handles of certain poisons also.
Then, if that poison comes along there

\section*{IMMUNITY TO FOODS.}

This is a point we do not see quite foods shade into poisons yery pradun) there are not two sharp groups, all the foods, food, and all the poisons, poison. Alcobol is both, according to how much is used, although alcohol is a very poor
lood, and a very good poison. But general rule seems to bo that os mot phine in very small doses will affect greatly those who are not used to it, while by taking it constantly, larger and larger doses become necessary to give re-
sults, so foods when first taken are to come extent resented by the body; to a silight degree only it is true. Proteins
seem to be the class of foods to which seem to be the class of foods to which the body most obviously requires a cor-
tain immunity: tnat is, you must take tain immunity: that is, you must take
some before you may take more in satety, ome before you may take more in satety,
just as you must smoke ehd be sick boore you can smoke and be well. While this is rather speculative, still it seems
to be true in practica that children who to be true in practice that children who
"can't eat meat" are children who have "can't eat meat'" are children who have not eaten meat aiready: in brief, that
it is, as a rule, foolish to keep meat from a child for fear it is tooo atronig for them or will make them stick. Re nember that mothers' milk itself is like
neat, largely protein, where it is not wat, largely protein, where it is no water or lat. The practical rule to one year old: then, gredually, the gon-
pral foods, untll- at fout the child ie happy and content in contact with any edult lood.
quantimies.
A previous article pointed out that in-
fants require onty one hundred calorios tants requifr orty ore hundred calories from heat-producing food; an adult man
\(\mathbf{3}, 000\) to 4,000 . A child may be gaining weight, red-cheelked and heolthy-looksing, when it storing it instead of using it up. A hoy from nine to thirteent requires a
much as a man, and from fourteen to iclee that a boy should go short of mmeat that only adulte should have such "strong food," is quite the reverse of truth. The adult can obtain the hoat
he needs from fats and carbohydrates he needs from fats and carbohydrates,
and only a relatively small amount' of protein is called for to repair waste The boy not only must replace a tremen dous lot of heat he uses up in many ac Livities (not actually work in the adul sense, but just as truly work so far a
his muscles and other cells are con his muscles and other cells are conjust like the ndult; and also, unilike the adult who has stopped growing largely, he must gein on the waste, not merely
repair it; and not gain welght juat by repair it; and not gain welght just by
storing up fat, but by making more and storing up lat, but by making more live etc. Growing boys need more protelin than men.
Girls do not, as a rule, need so much
food, nor do they change much from eleven to thirty in their requirements.
H. W. HIL

I believe in a man who takes what he thinks, belongs to him, and holds it loves ufe that he keeps a heart wopetifo for it and takes long draughts of it; who is ever ready to come back smiling tor another round with the world, no matter how h
Price Collier.

Nearly all the crime in our army call
be traced to intoxication. When our mon are removed from the temptation of intoxicating liquor, crime is practically
known among them.-Lord Wolieley.

The test of manhood comes when we rejoice with those whe refolces anybody can weep

\section*{Fashion Dept.}

Order by zamber, giving age or meas urement as required, and allowing at Prite in which issue pattern appeared. numbers appear for the one suit, one for coal, the other for skint, twenty cents
must be sent. Address Fashion Departmust be sent. Address Fashion Depart
ment," "The Farmer's Advocate and Home Magazine." London, Oht. He sure to sign your name when ordering patterns. Many forget to do this.
Address ; Pattera Dopt., 'The Farmor' Advocate and Home Magazine,'n London Ontarlo,
When ordering, please use this form: Sond the tollowing pattern to
Post omice
County
Provtince
Number of . ........................................
Age (it chilt ort................................... Age (ir child or misses' pattern).... Date of tesue in whlch pattern appeared.


Desion ay Max Mamon
8013 Surplice Blouse, 34 th 40 bent 8123 Thre3-Piece Skirt, a2 to 32 waist.


MARCH 19, 1914


8073 Two-Piece Draped Skirt,


8002 One-Piece Skirt, 22 to 30 waisto


8069 Coat with Empire Front and
Belted Back, 34 to 42 bust.

THE FARMER'S ADVOCATE
life, and when Billy for a time lapses-
for Jack London is too true to life to Ror Jack London is too true to life to
bar out the possibility of that she
stands "game" stands "game" and is his saving angel.
There are horrible events following upon a strike, so realistic that one
seems to be, in the midst of the seems to be in the midst of it. Indeed,
from start to finish, the book breathes real lite,-there is not e stuffed figure in
it. The men are it. The men are real men, the women are real women, and the circumstances
are, such as might occur in eny large
city of to-day. city of to-da everything connected after the strike phase of city life falls, for a time, into chaos. Saxon is sick of it all, and thus it is that she proposes to \(\mathrm{Bill}_{\mathrm{y}}\), now her
husband, that they go \%over the hill and far away" in search of land
Like two precious innocents they start out, with a knapsack, a kottle or twro.
a few dollars, and a ulkulele, heading straight for the country, and the latter half of the book is given up to an ac-
count of their wanderings and their revelations as they go on under blue Californian skies. They pass through the farming districts taken up by Portu-
guese, Japanese, and Chinese, where the guese,
land is given over to intensive cuiture
and so enriched, and so enriched, and worked, and
cropped, that tem acres yleld as much as fifty cultivated. by ordinary, westeful, American methoderible gardens succeed crop, in the same season; they are tmpressed with the constant tillage, the people seem to be "always turning over the land,"-and they learn much, especibily from a Mirs, Mortimer, who head even more than her hands, Eventually they drop among a crowd of simpleliving folk, artists and great writers, to whom intellect means more than possession of mere! things. Everywhere they
learn, and strike balances, and so, eventually, they reach their "Valley no the Moon," as sane as people may be One wishes, toward the end, that Billy that comes to his lips all too trequently, and one wishes that Mcr. London had not
made things quite so easy by 'bringing In a convenient landalide to expose a hillside of "paying" brick-layy; neverthe-
less, the book is one of exceptional inless, the book is one of exceptional in-
tereqt. If you think you are tired of country-life, read it. It may be salu-tary,-and suggestive, Incidentally,
may holp you with your, gardening.

\section*{LIVING-ROOM FURNITURA}

Dear Junla, Please state in an Farmar's Advocate, what furniture oblige Halton Co., Ont \(\qquad\) MaND. Put in a living-room anything that comfortable chairs, a couch with cushions, a good, strong table for books' and papers, bookease for favorite books, "and the piano. Fiave saah - curtains, a dowers, also a few good pictures (paintinge or prints) on,the walls, but eschew bric-a-brac and gimorackery as you would poison. Fragile Fases, Junk, and footskirt, have no place in a Hiving-room of

\section*{TO RMMOVE-TAN.}
"An Interested Person," Parry Sound, Ont., wishes a recipe for an applicatlon
to remove tan-"March-wind tan." Wask the face every night, with a mild soap apply at once a little lemon filce mixed apply at once a iltile lemon juce mixed
with a ittle buttermilis or cream. Be fore going out tito the winid, rub a It tle good, cold cream into the sakin, and
duat with powder. . dust with powder. . A fow drops of
tincture of benzoin added to the water in which the face is rinsed is ivery good; a still stronger blesch it peroxtde of hydrogen, applied pure or very silighthy
dilluted. The latter, however, has a dilluted. The latter, however, has a
tendency to dry the alkio if used too tendency to diy the alin it used too
often. It should never be permittad to often. It ehould never be permititad ito
touch hair or ejebrows, as it will take

\section*{BUFFALO MOTHS-COCOA PRE.} Dear Junte, -Housecleaning time will
soon be here, and I conith fo tois for help. Can jou toll me what is s sood thing to use in wiptig out thardropee
and dreaner draverm. oto, to prevent
buffalo mothis from making their homes Here is, a recipe for cocon pie I have not noticed it in the paper, One cup milk, 1 cup brown sugar, 2 tablespoons Cook, Use white of egy for top. cook, Use white of egg for top,
Can you give a pattern of crochet bedroom shoes, with soles crocheted, too ? Peel Co., Ont.
I know of no preparation which, used The best security against them is to pack the clothing in tight cedar chests whose covers it very closely. I had one of and found thet it cost less than those made ready for sale, which rum at about 818. Cedar boughs and plenty of moth-
balls scattered among the clothes will be ound helpful against buffalo bugs, and certainly against ordinary moths. An ancorked bottle of chloroform is also to use that lest someone might forget about, it and be overcome by the fumess
By the way, I have been assured that the constant use of a vacuum cleaner in a house will effectually eradicate all
kinds of moths, the buffalo species kinds of moths, the buffalo species in
cluded. A plentiful use of benzine or gasoline
will kill both buffalo bugs and their eggs, should they appear, but it you use dows are caren, that there is no fire or light about, and that no one is permitted to light a match or come in with a lighted pipe or lamp until the fumes have been completely evaporated, The fumes of gasoline are very inflammable,
and explosions causing death and sufferand explosions causing death and sulfer
ing, and much loss of property, have often occurred through just neglecting to be careful in this particular. The applioation may have to be repeated at an
interval of about a week to catch any stray specimens that may hatch out. I have no pattern of bedroom shoes With crochet soles, but should imagine
that the soles could be very easily done to plain, tight erochet.
FROM SCOTCH LASSXE JEAN Dear Junia, - Hello, once more 1 AlI have read with interest all the letteri. I was a school teacher for eleven terms, In their sympathize with the teacher Girls, keep your mind on your "Sun." your duty, that which regulates you day's life, of course, our duty an teachers is a pleasure when we have God's, hand guiding; if not, why are you pretending it is your duty at all?
If ever at our daily task the Sunshine is not on our faces, we should be careful what we do. It is in our dark hours of darkness, when anger, hatred, bad temper, cloud the countenance that ovil
things are said and done which cause things are said and done which cause In the course of my wedded life I have found thls to be comfortably true: As long as the Sunshine glows and beams
on my face, troubles keep their on my face, troubles keep their places
behind, where they worry not, nor make me stumble. Also, each dark cloud has a most beautiful siliver lining. After the excitement and the bugy Worry and toil of the day comes the Is tired and weary, the voice and prattle Is tired and weary, the voice and prattle
of the little ones cheer her on her way. We should all prize our teachers if they
are faithful to their duty. Our child'e are faithful to their duty. Our child's
character is moulded by the teacher at the day school, as he spends most of bis time in her presence and the happiest. part of his life is at school. I had a very busy fall, and our home
has been sadly afflicted, my husband's mother being paralyzed, entirely helpleme and speechless, and 0 , how it makes ue
stop and think why these things should bo 1 But God moves fin a mysterlous Way. He gave us, strength to bear the Oros, no matter how heavy to bear, and whising hen and whing hand, and I believe, although
Oid Onslow is behind in mot hevlig telephone, dally mall, or trelii service, sho can boast of having the mont Gode heve proved it twice. When we lost our wo were all as one Lamily, and now thie sell we are the same oid family ryain, so many wiling hands to holp. So.
readera, always lend a helping hand readera, alwayd lend alping hand
when your friend need it to care for When your friend neede it, to care for
the helpless, thint fis in sitting to caro

Diamond Dyes Give "Perfectly Splendid Results" and a
"Fresh from Paris" Look
Mra K, B. Jackon wntes:Alice Blue suit that my sister in Hartford gave her for her birthday present. Although the material was of excellent quality it soonfaded
in spots and became in spots and becam
mussy looking. "Julia fell badly, for the suit fit her beautif fully
and ii was a really and it was a really
handsome one.
"I. had made up my mind that I would have
to owithout somelhing
and spend the money so and seend the momy seng
saved on a new suil for saved on a new suit for
her, when one of Juhia's
friends said why down friends said, Why don
you dye win on
MOND DYES! : "The next day I bought a package of DIA.
MoND DES for Wool and Sitk and dyed result was perfectly
splendid. We were so
 could s sare some of the money DTA MOND
DYES suved for \(u s\) to have Julia's photo. graph then I send you one
new DIAMOND DYE suik.'

\section*{Diamond Dyes}
"A child can use them.
simply dissolve the dio and boil the material Mre sher Xoung writes.dolh suit which I re-
coloredwuihDIAMOND DYES. II was originally a an suik and beBlack. I out the coat
which was long, and whilered it into the modish short coat you see in shere picture. I Itso which \(I\) had, and bought some while velves and made the hat which I ain wearing in the photograph
"My friends tell me the suit and hat are stun-
ning creations and tnat ning creations and that
they look as though fresh from Paris. Perhaps you will think
enough of my handiwoork to use my photo in your advertising.


Truth About Dyes for Homed Us There are two classes of fabics-Animal Fibre
 so must be treated asualy vegetabie forbre faioricts.
 We manufacture two classes of of Diamond Dyes,
namely Diamond Dyes for Wool or silk to color
Animal Fibre Fabrics, and Diamond Dyes for

Best results on EVERY fabric.
Diamond Dyes Sell at o Cents Per Package
Diamond Dyes Sell at ro Cents Per Package
Valuable Book and Samples Free Send us your dealer's name and address-tell
whether or not he selis Diamond Dyes. We wid then send you that famous book of helps, the Dia-
mond Dye Anhat and Direction Book, also 36
samples of Dyed Cloth-Free.
samples of Dyed Cloth-Free.
THE WELLS \& RICHARDSUN CO. LIMITED
200 Mountain Street. Montreal, Canaia. When we see homes bereft of a parent some good cause, and we must bear. his cross cheertauly day by day and receive our crown at last. I must send you some little helps for
some other little sehool ma'ems who some other little sehool ma'ms who
have settled down to the sturdy work of the farm.
Gingersnaps.-Put 2 cups molasses, 1 or drippings), is teaspoon each of cloves, allspice, cinnamon, soda, ginger and
lemon, and let them boil five minutes then cool and put in 1 cup sweet milk and 2 teaspoons cream of tartar, and Aour to make stie batter, or dough to
roll and cut in cakes. Cook in moder roll and
ate ove
ond
Cookie Jam Jams.-One cup butter or dripping, \(\$\) cup lard, 1 cup granulated sugar, 2 eggs, \(\ddagger\) cup sweet milk or and 2 of cream of tartar. Mix pretty stif with four, roll thin, and bake in
moderate oven, and place jelly between the cookies, and you have excellent jamJams. want to tire you send now, as I don Onslo SCOTCH LASSIE JEAN.

\section*{Seasonable Recipes.}

Orange Marmalade. - To 6 large navel oranges,
add
and the
tuice medium - sized graperruit grapeffult and oranges (whole) separateto be pierced easily with a fork onougl over' night in the water in which they were boiled, and in the morning cut the grapefruit in halves, scoop out the pulp,
and press through a colander to remove seeds and core. Shred the rind with a saving all the juice. To the shaved skips and pulp of all, allow 2 quarts
cold water. Now measure, and add one and one hall times the quantity of sugar, having both sugar and juice hot. Add
the lemon juice, cook until the syrup is thick, then pour into glasses.
Prune Pudding.-Soak water untill sort. Remove stones \(v\) and cut prunes in small pieces, then sprinkle
with \(\ddagger\) cup sugar. Beat whites of 3 with t cup sugar. Beat whites of
eggs stif and ade prunes gradually.
Pour into bake 25 minutes. Chill and serve with
custard sauce.
Spiced \(A\) Aples.-Select 6 medium-sized, perfect apples. Cut in halves and lay
im a baling-dish. Pour in the dish 1 in a baking-dish. Pour in the dish 1
cup hot water, sprinkle over them a cup cup hot water, sprinke over them to tea-
light-brown sugar a dash o salt, it to
spoon ground cinnammon, and \(\&\) teaspoon spoon ground einnamon, and Leaspoon
ground cloves-the sugar, salt and spices to be mixed together first. Just before
placing in the oven, turn into the dish
and the juice of 1 lemion and a level table
spoonful butter. Bake, covered, for hour, then remove the cover and bake 15
minutes longer in top of oven. This is ntce served with meat, especially porks.
Boiled Cider Pie..Bring to a boil Boiled Cider Pie.-Bring to a boil
cups cider and 1 of sugar; stir in cups cider and 1 of sugar; stir in
tablespoons cornstarch bbended with
well-heaten
 bake. When nearly done, cover with
merlingue made with whites of eggs, and
brown. \(\underset{\text { Plain }}{\text { brown. }}\)
Plain Custard Pie.- Beat 2 eggs very
light, add slowly 2 large tablespoons of sugar, 2 cups milk, and a pinch of salt.
Add lastly a tablespontul) of melted butter, pour into the pastry - lined tin,
grate, a little nutmeg over, and bake in a slow oven.
Scalloped Tomatoos.-Place a layer of
crumbs in a buttered pudding-dish then a layer of tomatoes, and continue alternating crumbs and tomatoos until all
are used, having crumbs on top.
One can of tomatoos and one cup of crumbs with be neded. Sprinkle each lay3r
with salt and pepper, and dot with bits of butter. Bake Por halk an hour.
Potato Rissoles. - Season 1 quart hot Potato Rissoles. - Season 1 , quart hot
mashed potatoos to taste, with salt,
poper pepper, butter, and a
Add a well-beaten egg, and mix in tream.
ourhor oughy 2 cups finely-minced cold lamb
or other meat. Form into balls, roll in egry, and then in sifted breadcrumbs, and
try fin deep fat. Serve very hot, gar-
nished with pardey

\section*{News of the Week}

The Late Sir George W.

\section*{Ross.}

One by one they pass away, that fine old group of eminent statesmen and ducationists, who have done so much oward the building of Canada, towards placing her in the proud position which she holds to-day with the great countries of the earth on the broad road of progress. Macdonald and Brown, Strathcona and Cartwright, Ryerson and Goldwin Smith,--so the long ranks file into the perspective of the past. Not men of the long ago, these, and many, many others, yet pioneers, for our country is till young.
The last to pass over with the others was Sir George W. Ross, who died in the General Hospital, Toronto, on March 7th. Noted as a politicfan, yet more as on educationist, Sir George placed the imprint of his personality strongly on the fortunes of Canada, most of all on those of the Province of Ontario. He was born near Nairn, Middlesex Co.,
Ont., on Sept. 18th, 1841, and began his Ont., on Sept. 18th, 1841, and began his ong and eminent career as a public-
school teacher, working his way thus, as so many brilliant men of the new world have done, to a University course, to the
Bar (although he never practiced), and Bar (although he never practiced), and
finally to statesmanship. nally to statesmanship.
as an orator of exceptional ability known journalism offered him a more steady avenue for expression than even oratory
could provide, and so it was natural could provide, and so it was natural
that eventually he should drift into ditorship. The Strathroy "Age" was the first paper that came under his conExpositor, and founded the Ontario deacher. For a time, too, he was a director and
The Globe.
The Globe.
In 1871 h
In 1871 he was appointed inspector of in 1877 became Provincial Inspector of Model Schools. In 1872 he was remons for West Middlesex, a position that


The Late Sir George W. Ross.
paved the way for his appointment as
Minister of Education for Ontario 1883, a post which he held until 1899 . Fntario, Ontario, and from May, 1913, until his
death, was leader of the the Senate. A Liberal, an Imperialist, but above
all things a Canadian, Sir George was for many years in the foremost ranks of Canadian politicians, and not always was
his voice heard from the platform of the party with which his name has been consected. For instance, he was of late
years strongly opposed to reciprocal re years strongly opposed to reciprocal re-
lations with the United States, although he supported as strongly Laurier's naval
policy for Canada. During his long public career he was
identified, most of all, with movements, ranging from the establish ment of kindergartens and uniformity of
the institution of sur system of treo public libraries. He was also the author
of several books, chiefly eduoational among which may be mentioned History of the School System of tario." "Formative Influences in Of Ondian History," "The Making of the Canadian Constitution," "Shalr Canada Be Always a Dependency of the Empire?" Plains of Abraham." Significance of th Among many other connections Which his influence was exerted may be mentioned the construction of the Timiskaming e Northern Ontario Railway. municipalities to unite for the enabing municipalities to unite for the purpose of He was knighted by King George in
1910.

\section*{puring recent experiments in wireles} telephony conducted by Signor Marconi, messages from Canada were received by vessels of the coast of Sicily, 4,062 .

Over 1,000 were drowned on Saturday by a large wave from the Sea of Azol of Kuvan, Southern Russia

The volcano Asama-Yama, 90 miles from Tokilo, has been in eruption tho companying earthquake, many an achave lost their lives.

Part of the pig-iron which the R. D. Wiod Co.. Philadelphia, will make into is to be from Sydney. N. S., the first foreign-made iron of any amount to be the new tariff.

The Czar and Russian authorities have undertaken a campaign against the use
of alcohol in the army, experiment ing shows that it incapacitates the men.

The Patriotic League of French women, led by several titled ladies, is undertale. ing a campaign against indecency in The United States Express Company is giving up business, having been driven
from the field by the parcels post.

All the important art galleries in Eng land are being closed to the public as a result of the mutilation of the famous painting by Velasquez, the "Rolebby Venus," by a suffragette, who managed
to convey a hatchet into the National Gallery.

The King declined to receive the deputation which Mrs. Pankhurst planned to
send before -lrim, reviving the ancient right of a subject to petition the Sov-

It is reported, at time of going to press, that Major Rudilfo Fierro, one of een arrested as the slayer of william S . Benton, the British subject in Mexico who met his death when he went to inprotection of his property

> Premier Asquith's proposed concessions
> o Ulster, announced on March 9th, have
> Mr. Redmond has declared that they do
> not please the Irish Nationalists, while Mr. Bonar Law has declared even more mphaticaly that the Unionists in any form. Home Rule Bill became operative, a poll should be taken of the Parliamentary electors of each county, to decide whether there should be an exclusion of the
Ulster counties from the provisions of the bill for six years. When making the announcement, Mr. Asquith said thet those who have supported the Home Rule Bill as originally drafted are as convinced as ever of the soundress selfits principles; they believed in Irish placed on the statute - books as it stood, its operation would involve no injustice or oppression.

MARCH 19, 1914
THE FARMER'S ADVOCATE.


\section*{TheBeaverCircle}

Our Senior Beavers. IFor all puphis rom seneror Third to A Spring Time Wish. (byy To Tabel Ecclestone Mackay.)

When the feeting dasys of April And the air is swing, with knowing And the air is sweet with knowing
Where the hidden buds are growing,
And the merry winds are going And the merry winds are going
Wandering !
o, to be wobin
Built upon the budding branchesEast or West !
Just to swing and sway and dangle Just to swing and sway and dangle
Far from earth and all its tangle, Far from earth and aird-jangle Joining in the gay
With a zest
o. to be a robin-

Not to have the pain of hating Just to race the foremost swallow Over hill and over hollowAnd the joy of life to follow
Through the Spring !

churchis'Alabastine


\section*{Willit be a DrySeason?}

You don'tiknow-nobody knows. But if you take the
precaution of proper tilling you will have as little to fear
from insufficient moisture as hundreds of users of Peter Gamilton Cultivators last year.
Good seed deserves better treatment than simply planting it
haphazard. Work up your soil with a
Peter Hamilton Cultivator "um
and you'll get improved results. All teeth cultivate to the same. JOBNI
depth and thoroughly work up every inch of the ground depth and thoroughly work up every inch of the ground.
Every tooth rein.
 the powidit mop mant veid inpecing
The Peter Hamilton
Gompany, Ltd.



\section*{A SNAP}

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Theppector-I don't understand, Johnny

 day on an average.
Senior Beaver's Letter Boz. Dear Puck and Beavers,-1 suppose all tho Baavera will bo glad when apring
comes, and the that Nature's garden ean hold, hae startod to grow Iarcion thal bo hlad when 1 will bo busy working at my garden. nome of to is "ralee trom shakcospare." Many thanks, Puck. I am a lover ol
 Tro: "Gypgy's Cousin Joy," "Little Women." "Playytue, and Sol. Sodtime," Workahop," and many othera.
II suppose all tho Beaverf had a good id. - Wo had a Christmas-tree at the echool. There was a very entertaining programme, and I think sverrybody encos
I miat Puek mourd have a drawing my subjoces. \(I\) am tryang for the Junior Fourth clise. I hope I pass. \(I\) going to school, and would not 1 like amma day it I could help it.
thent. guaes. - will closes, as my lotter Is getting rather long, hoping wro have letter escapes the monster waste-paper basket. MABEL GUNNING.
Science Hill, (Age 11, Book Sr. III.) We will have a drawing competition
some day, Mabel.

Dear Puck and Beavers, This is my arst letter to your charming Circle. We fifteen years. One day, as I was coming home from school, we went out on the creek and found a lot of small fishes. We picked them up and put them in our them with an inch of ice We found about a foot of water, and then more ice. I brought thirty home, and only lour died. I have one fish I call Whiskers, and I feed my fish with bread
crumbs. I guess I will close. Wishing the Beavers every success, Iose. Wishing truly, ANESE every success, I remain yours Gananoque, (Age 11, Book Sr. MI.) Dear Puck and Beavers,-May I join
your charming Circle ? My father has
taken '"The Farmer's taken "The Farmer's Advocate". for over
a year. We all like it fine. My little a year. We all like it fine. My little
brother has it first when it comes. We have the rural-mail delivery. The mail-
man's name is Mr. Lee. My teacher's name is Miss Kennedy. I haven't missed a day since New Year's going to school. the Circle that I knew, and that was Lacile Glass. She and I are in the same name is Bruno. I had a little, tiny kitten; its name was Malta, but a box fell on it and killed it. I felt so sorry have their hole.in the wood-pile one of our colts very well; it will let me do anything for it. If I see my letter in print I will write again. Your
little Beaver, VERA ST. CLAIR. Thorndale, (Age 13, Class Sr. IV)

Dear Puck and Beavers,-May I join your interesting Circle? I read the
Beavers' letters every week. We live Beavers letters every week. We live
one mile and a quarter from town. We have some strawberries and raspberries.
The school is right next to, our farm. We live on a small hill, and have great
fun sleigh-riding in the winter. In our garden last summer the winter. In our phlox, sweet peas wansies nasturtiums I wiih close with a few riddles. Here What eats and eats, and never gets As I went over London bridge, I me a London scholar; he drew of his met and drew off his glove; what was the
name of the scholar? Ans.-Andrew Wishing the Beaver Circle every suc-
cess. cess.
Port Figin, Ont., R EVA FLOTO.

FOUNDED 1866
Dear Puck and Beavers,-This is my
arset letter to your charming Circl I hope it shall escape that circle, and p. b. I live on a farm of about one hundred and fifty-six acres. We have a large apple orchard, but did not have any apples last year on account of the worm. I have read quite a fow booksuch as, "Adventures of a Brownie,"
"Robinson Cruit Robinson Crusoe," "Little Nell," ete I read the stories in "The Farmer's Adother story like Rebecce would be anFarm. As my letter is getting rather long, I think I will close, wishing rather Beaivers of My father has kept every " write me. since the becarme every "Advocate"
\(\qquad\) North Lage 14, Continuation Class.

Our Junior Beavers. [For all pupils from the First Book to
Junior Third, inclusive,

\section*{The Twins.}

LA story written for the Junior
Beavers, by Mary Pollerd, Harr
There was once a man and a woman who lived happily in the woods with parents had occhailon to Raymond. The the ehildren thought they could and house, which they had often done before They bade their parents good-bye, got supper, and while eating heard a rap at asked the Rachel opened the door and supper with them. Shed there to have down. As she ate, she pulled from her pocket a magic wand and touched the children, who at once became foxes and ran into the woods. When their parents children were gone they were ver beloved grieved. Rachel and Raymond lived in a cave. One day their father was out gathering mushrooms, and seeing a storm coming up, went into the cave both came to meet him, and licked his hands and put their paws up to his face The father, seeing the signet rings on on them, with his children's initials on them, knew that they were his chil-
dren. When the storm was dren. When the storm was over he took deys. Their mother one night left a pencil on the table, and in the morning seying if they boiled cider for them they could recover their human shape. The few minutes cider for them, and in shape. The children told their parenta the story of the wicked fairy.

Dear Puck,-This is my first letter to the Beaver Circle. I have onjoyed readpapa has - taken "The Farmer's Advo care." I have two brothers; their namen five and the other is three. I Our teacher, am in the Third Reader live on \({ }^{\circ}\) ar's name is Miss Millar. River. We have along the Restigouche back of our farm a peat lake on the The river is lined with smelt fishers no (in January). Fishing and lumbering are the principal work for the winter space. Good-bye not take up any more

Dalhousie Junction. HICKS (age 9)
Dear Puck and Beavers,-Well, is there room for another Beaver to join your
Circle? My father has taken cThe Farmer's Advocate" for a long time, have four brothers and one sister. Three of my brothers and myself go to school every day.
ing, too. We had pretty cold weather My father has a sugar - bush, and he year he got an syrup with. Hope this will escape that

MARCH 19, 1914
THE FARMER'S ADVOCATE.

Doar Puck and Boavers,-This, is my sooond letter to "my frot one in print, I thought I would write again. My father still, takes the paper. \(\mathbf{1}\) go to ston. I have read a lot of books. On Saturdey nights we play Blindman's Buff.
We We have six horses and one colt. Wo calves so far this year, and about fortyAve hens. I live on a larm of three hundred and twenty-five acres. We are going to build a new barn this summer;
pope io drawing the sand for it. We fapa a mill route, and my unclo runs it for us. I have to walk three miles to forbool. Wo go through the fields, and the snow is up to aur knees. \(\mathbf{I}\) will close now.
Kingston.
Kingston, Ont.
Dear Puck and Beavers,-This is my Arst letter to your paper. I am always
glad when "The Farmer's Advocate" glad when con read the story and let. comes, so I can read the story and lettarsorite books are the "Elsie Books." I have read three, and would be glad to got the rest. 1 have rour brothera; no sisters. We all go to school, except the
baby. who is one and a hall years of age. Our teacher's name is Miss © H ousion. her. I live on a farm near Orton, which is my post office, but we do not have o go to the post office, becau we have
the R. R. No. 1 . the R. R. No. 1.
I would like if someone of my age will
rite to me; I will write back. Wishing the Circle every success, I will close, or this letter will. be going into the
WL.p. b. Orton, Ont., R. R. No.

Dear Beaver Circle,-It is quite a long me 1 go to school every day, and have a mile and a hall to walk. Our teacher's name is Miss Fern Graham.
For pets I have a dog named Benny; a cat called Tiger, and a dear old horse called and I can drive her any place. Hoping to see this letter in print, I will close with a riddle.
What has its heart in its head? Ans.Cabbage. FLORENCE GRAHAM,
R. R. No. 3, Glencoe, Ont.

Dear Puck and Beavers, - I enjoy reading the Beaver Circle very much. This vocate." I go to school nearly every day, and am in the Senior Second Reader. We all like our teacher very much. I have two brothers and three his name is Joe. He is an iron-gray color. He has white face with a
brown spot on it. I asm going to, got
his picture taken and send it to yous. My father has a one-hundred-acre yous. and the Wabash Railway runs through Beavers will write to me. WILLIE E. GATES.
\[
\text { Glencoe, ont., R. R. No. }{ }^{\text {s. }}
\]

\section*{Book Reviews.}

A GARDEN BOOK.-Good, and cheap. Elivery farm should possess a good gar-
den book, but many who would otherwise be glad to buy such books, are deterred by the high price, sometimes by the bulkiness of the ordinary gardening books on the bookstore shelves. A book s "TThe Suburban Garden Guide" by Parker Thayer Barnes. (The Hacmillan Company of Canada, Ltd., Toronto price, 50 cents.) In it may be found information in regard to cultivation and fowers, methods both vegetables insect pests, and the use of fertilizers. prominent feature, of the book is a comprehensive planting table, and it coneludes with easily -und
spraying and pruning:

A CONVENIENT COOK-BOOK.-An
pany, at the same price, which will
appreciated both by the housewif her faatily both by the housewife and
her \({ }^{\text {and }}\), Mings Mother Used to Make," by Lydia Maria Gurney, which tried recipes covering 'everything, from bannocks to piccalilli, including a number of handy hints in regard to all deafter examining these two books, we feel that a dollar could not be spent better than in buying them.

The Ivory Snuff Box
By Arnold Fredericks. (Copyrighted.)
Chapter III. Chapter III. When Richard Duvall ànd his companIon entered the house of the Franch that their arrival was expected. The detective had no mare than given his name to the butler who threw open the door, when the latter, with a bow small reception-room to the right of the entrance, and informed them that M. de Theey did nee them at once. ambassador, a thin, spare, nervousloole ing man of sixty, with white hair and a gray-white mustache, came hurriedly hed elapseom after but a few moment hy, bade them be seeted. Ho himisell remained standing, his back to the fire place, twirling his eyeglasses at the end
of their black-sill ribbon, and observing his visitors keenly.
""M.
. Leforrs
coming. Letevre had informed me of your coming, genitlemen,"" he presently , burst
out. "We have no time to lose," "Let us have the details of the anair, monsieur," Duvall remarked, seating himsalf comfortahly in his chair. "So far we are completely in the dark,"
"You know, do you not, that a eable article, a small snuff-box, to bo exable article, a small snufi-box,
"Yes. Of that I have been informed." the detective remarked diyly. "I an curious to learn why ths loss of an article of so trivial a nature sho The ambassador's eyes smapped; he
soemed almost to resent the detective's attitude.
"It should be sufficient, monslour, I think, that it is so regarded. The talk
before uas is to recover it ; not dlecues the reasons for doing so."
"I disagree with you, monsieur. I the real value of the stolen article is kept from me. how can luaw my conclusions as to the probable object of it
theft? Was. it intrinsically valuabile? Did it contain anything of value ? In short, why should any one have taken the trouble to steal it? Tell mo that and I can act intelligently. Otharwis dark."
"I do not think so, monelour." The ambessador bent upon soarching glanco.
"TThe fact that the box is gone should be sufficient. All that I ask is that you pearance from the material its disap pearance from the millerial facts of the "IIs the box them of no value?" "I have not said so. As a matter of fact its value is great. It has been an heirloom in my family for many Cardinal Mazarin."
value the then intsinalc value alone might have promoted the "Ihert ?" think so indeed, I very greauly hope so."
"Why ?
The ambassador recovered himself with 2 start. Evidently he had said more than he intended. It was some time belore he answered them he did so lamely.
\({ }^{1}\) "Its theft by some one interested its value as a curiosity would enable me to recover it most readily ; by the pay ment, of course, of a sum of money. say, that there might be other reasons; that it might have been taken by those who suspected that it had it another For a moment M. de Grissac appeared confused. Then he waved his hand impatiently.
"There are thoseo" he said, "who seek


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a. C. HALLMAN, Breslan, Ont.

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to injure me. They \(\begin{aligned} & \text { know that } 1 \text { prized } \\ & \text { this thing highly. } \\ & \text { Their motive may }\end{aligned}\) have been not money, but revenge. In
that case its rocovery will be vustly that case its
more difleult.
more dififilut.
Duvall saw that in. de Grissac was not boing trank with him, and for a mo-
ment ho was conscious of a deep aneo of amnoyance.
I. Leforre had heretolore tivarlubly
taken him into his conidence.
Ho controlled his foelings, however, and appeared to be satioffed with the ambeo aor's oxplanations.
"What did the box contain, II. do "A quantity of puift,
"Nothing elso ?"
"Nothing."
"Oh, And you, mo
"Yes. It is the only form in which use tobacco. Old fashionea, perrape but I belong to the older generation." Hio straightened himsele up suddenly,
"Lot ue proceed, gentlenen. I fear. wo are wasting valuable time."
are wasting val
Duyal ingoded.
"Mermit,
queatione:" "When did your service, monsteur." "This morning at nine o'clocki. woas carry it in the right-hand pocket It hea it waistcoat. To insure its safoty which was securely fastened to thain, of the pocket. I rose this morring somswhat late, having attended a bancoffee and rolls in my bed-room I went to my dressing'room to, be ehaved. As the snuff-box from the pocket of drew white evening waistcoat, whice my velet had hung in a closet the night betore, and took a pinch of snufi from it. In
then roplaced it in the pocket and enterool the dressing-room adijoinlng, where
Nooi, \(m y\) man, was waiting for mo. procoeded to shave me as usual, and I began to dress. Upon going to the closet in my bad-room to remove the chain to the clasp in means of the waistcoat I had just put on, I was amazed to find it gone. I at once nummaned Noel-"
"Summoned him ?" interrupted the de tective. "Was he not with ycu in the \({ }^{\text {ron }}\) No. A few minutes before-as soon in fact. as I had completed dressing-he left the apartment to give some instruc
tions to to "What did you do then?
"I at once rushed out into the hall. calling for Noel."
"You believed then that he had taken the box ?" I could believe nothing else,
but he had been in my rooms ",
one "Oh. I see. And you questioned him \({ }^{\text {P" }}\) " On reaching thf hall I met, one
of the mands ascending the stairway. of the maids and called to her, asking it she had seen
Noel. She had not. She had been in
the servantas haill- talkeng with the thauffeur-Ne hall-talking with th

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 coop. Rasperries, Herbert
Brincle
Repbert

"I rushed to his room, which is on
the floor above, thinking that, it he haid the floor above, thinking that, it he head
taken the box, and proposed to deopy
the the fact, he would have gone thero to "Would he not have been more likely to leave the house immediately, since ho
knew you would discover your loss at once ?
"No. He would realize that to fiee not have gone more than a few hundred feet., Capture would have been thevit
"Did you find the man in the room 9 " "He." was just leaving it as I camo "What did you do' then ?"
and oruestioned him bim sharply. He denied and questioned him sharply. He denied
all knowledge of the matter, and appeared to be deeply hurt at my suppcions.'
"I do you believe him ? comprehonsible. know. The matter is tirservice for eight years. I supposed him
absolutaly absolutgly
honest. \(\begin{gathered}\text { incorruptible ; absolutely } \\ \text { also insists that }\end{gathered}\) honest. He also insists that atter \({ }^{1}\) le
left the bed-room and came into the dressing-room to be shaved. he dit tot leave me, nor again enter the bea-room, in which case, he could not have cont mitted the thert.
"So far as I can remomber, it man" Ho spoke in a slightly hesitating way "You are then not abbolutety sume op" he aaked. "I feel confident that Noel ard not leave me, nor enter the bed-room. It I hesitated for a mament
fact that on one or two occasione have fallen asleep while being sheved. but this morning I am quite sure that I "Yet you were up late last night, and awoke feeling sleepy and tired." " "Yes," the ambassador nooded ; "that
".
"Is there any other doer to the bed room ?" "None, except that which opens thto my bath. The bath-roow
dows. \({ }^{\text {it }}\) is an inside room."
"It has two windows, facing upan the adjoining property. There is quifo reet of space between the two buladings:
and the windows are at least twents. five feet from the ground."
"What room is above?"
"A guest's chamber, unused and lock Duvall rose and began to stride up "AAter you finished questioning the man what did you do then?
"I searched his room thoroughly, and made him
pockets, pockete,
drawerg."
"And you found-"
"Nothing That was before noon to
"Nothing. That was before noon to
day. Since then I have kept the man locked in his room await ting your com
ing. One of the other servants has to ing. One of the other servants has verr
mained, on guard outside his door ever
since."

MARCH 19,1914

\section*{KEITH＇S}
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A few new students can be receiv
for selected studies. Spring or
Commencement Term is Commencement Term
especially interesting. \\ Robert I. Warner, M.A., D.D.
} t. Thomas

and regular contour, more ithe a huge
And seal it was.
Duvall, dropping on one knee beside Duvall, dropping on one knee beside
the body, felt for the man's heart, at
the the same time looking closely at the dead, and had apparently been so for an hour or two. The blot upon his
face was agreat lump of red sealing-
wax, tighty binding together his lips wax, upon it was the coarse his lips, man's forefinger.
The ambassedor shrank back with a
cry, as his eyes fell upon the ghastly sight.
Dutre
Dusivenne gazed at the dead map imDuvall, springing to his feet, went at
once to the window at the rear of the once to the window at the rear of the
room, which stood partly open. and
ralising it to its full. extent, lolk ralising it to its full extent, looked out. a low whistle as he drew back into the a low.
rolom.
"No
room,"
room," cried the ambassador in a frightened voice. "It is thirty-five feet or more to the ground.
Duvall motioned to the
"Look out, monsieur," he remarked De Grissa
sudden cry.
From th.
From the window to the gariden bolow
stretct stretched a long, slender, wooden ladder. repairing the rain-spouting," he xeclaimed. "They leave it in the garden at which Noel could get out." "But clearly a way ;
which others could get in," sald Duvall quietly, as he began a minute examima-
tion of the room. tion of the room
has been taken away \(7^{\prime \prime}\) you think it as much when you showed me the mann's letter. Your servant, F have no doubt, morning. You doubtless cozed ofl, thus
giving him the opportunity. He did not know that you had taken spuff from the box this morning shortly after arising, and imagined, no doubt, that you
would suppose you had lost it some time the night before. This would relieve him of any suspicion. He hurried
off to his room to secrete the box. off to his room to secrete the box,
meaning to deliver it to this friend of his, Oscar Seltz, during the afternoon.
His arraignment by you and his subse quent imprisonment no doubt frisghtened
him and filled him with remorse-hence his rather unfriendly letter to Seltz. He
had repented of his bargain, and wee had repanted of his bargain, and was
doubtless engaged in preparing a confossion, telling you of his crime, and the
reasons therefor, when the murderer entered the room
"The latter, who probably was this
man Seltz, must have become alarmed by the tone of Noel's letter. He was, it seems clear, planning some trip away
from London, upon which he was about to leave. He meant to take the snuflbox with him. Upon receiving Noel's
letter he determined to see him and doletter he determined to see him and do-
mand the box, if he found the latter had secured it. No doubt he made inquiries
from some of the from some of the servants, on calling
to see Noel. and was informed that he was conined pretended to loave, but in
"He then
reality ascended to the room by means of the ladder he found in the gardon, While the servants were at dinner.
was a desperate chance, but he tolok Upon arriving in the room he found sion, insisted upon reading it, then
realizing the realizing that his confederate was about
to play him false, killed him, after gainto play him false, killed him, after gain-
ing, possession of the box, and depart-
The ambassador uttered a groan."
"My God," he moaned, "I am lost.
Dufrenne, who meanwhile had been
making a careful examination of the making a careful examination of the
dead valet's body, rose with a mystified expression upon his face.
"Therg are no wounds upon the body
t all. M. Duvall." he said. "How cal at all, M. Duvall," he said. "How can
yous account for this man's death ?",
Duvall stooped and maper Duvall stooped and repeated the ex-
amination which his companion had just
made. made.
"You are right," he said. "The case
is a most mysterious one.".
"At least we can identify the murder-
"r'm afreid not. This man Selta canHe held up the forefinger of the dead He held up hand, upon which was a
man's right harn, with bits of red sealing-
dull-red burn, wax about the nail. "He wasn't takwax any chances."
He let the already stiffening arm fall, and
body.
"The
"The method by which the man was killed," he remarked slowly, "is not yst clear to me. Certain finger prints on the throat indicate that he might have been strangled, but they are hardly deep
or extensive enough for that. I Iancy or extensive enough for that. I lancy
they would have resulted in temporary unconsciousness only. No-there ta another reason-although what it is-" he paused as his eyed lit upon a rinin,
shining object on the floor beside the "Oh-this may tall us something." He picked up the thing which the He picked up the thing which the pin, and examined it carefully.
"Did this belong to your servane, M.
do Grissac," he asked, holding tne pin de Grissac," he asked, holding the pin
up to the light. "Yes." The ambassador glanced at the pin carelesely
"It was one of my own that I had given some months ago."
Duvall laid the scart-pin carefully upon the table, then went to the body on the floor, turned it over and made a
careful examination of the back of the neck. He held the candle close, pushing aside the man's thin, sandy nalir.
Presently he rose and placed the candle on the table beside the pin.
"This was what your servant was killed with, M. de Grissac," he said, as he indicated the scarf-pin with his fin-
ger. "It was trust violently into the spine at the base of the brain. Only a tiny blood-spot remains to tell the tale. This fellow. Seltz, is a shrewd custom\({ }^{\text {er. }}\) "We do not even know that it was he Who committed the crime. Thare is no snufl-box may still be here. I insist that you make a thorough search."
"It would be useless, monsieur," Du"It would be useless, monsieur," Du-
vall remarked with a faint sime. "The boix must have benn on the table when
the murderer entered the roiom." "Why?" "Because otherwise he would have searched for it, and you would have
found everything in disorder. Believe me, monsieur, your servant had repented the bou to you-it was that which caused, his death. The seal upon his hips is a gruesome joke-silence-his lips "Seltz must be arrested at once," the ambassador cried in a rage.
"So far, monsieur, there is, not the it is my opinion that he Further, London at once. Thall me the namee of
the shop in Piccadilly Circus Was employed, and we will where he The ambassador was not entirely cer tain of the location of the shop. He membersd, was given in the note as
Perrier. The note had been delivered by one of the servants. He could tell
where, and to whom he had delivered

Duvall recommended to the ambassador
that he report the murder to at once, but requested that no mention be made of the presence of himself and
M. Dufrenine. "AWe should be held as witnesses," h would aeriously interfere with our platis.
Let us interview the servant who took The lattor, a groom, was soon dis The lattar, a groom, was soon, dis-
posed of. He gave the number and lo-
cation 'of the barber shop in Piccadilly Circus, a short distance away, and re ported that he had handed the message
to a dark, smmorth-shaven man at the socond chair. He did not know Selta, in response to his inquiries.
His description of the man was vague and unsatisfactory; he was unable to give any further information on the sub-
ject. Investigation as to any ing made inquiries at the servants hav trance during the evening regardin
Nool, elicited the information that


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The Cream Separator you will buy if you
investigate its merits and compare it with others. It is the cleanest skimmer, making you a Its simplicity of construction, square-cut gears and excellent to operate
Only the best material and workmanship being employed in its manufacture it will out-
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CLYDESDALES AT AUCTION


Thursday, March 26th, 1914, at at andiricock
This stock is bred from such high-class horses as Sir Hugo, Clan Chattan, Montrave
Ronald, and other well-known horses of Scotland, and that extra large, choicely Ronald, and other well-known horses of Scotland, and that extra large, choicely-
bred and unbeatable stock-getter, Prince Ronald (imported). Stallion rising 11 years
(imported);
 mported stock; stallion rising 2 years, from imported stock; 3 imported mares; 4
young mares from imported stock; 2 general-purpose mares in foal; 2 geldings rising 4 years: 1 gelding rising 3 years; 1 filly rising 3 years; a number of brood sows due
about Aprii. The above Clydesdales are a choice lot, llescended from the best blood about Apri.. The above Clydesdales are a choice lot, tescended from the best blood
of the Clydesdale breed, and as this stock has got to be sold, it will be a rare chance for bargains. Come and get a bargain.
TERMS-EIght monthe on approved joint notes, or 6 per cent. discount. w. J. CRYDERMAN, Auctioneer.

Atter a time, Dufrenne observed that
the thin man in the chair next to him the thin man in the chair next to him
had opened his oyes and was feeling his had opened
Jaw wish sath math satistion
"A very good shave, my good fallow,"
he said, in oxcellent English, without, trace of any foreign accent.
"What powder was that you used, mas ask ? Dufrenne, who was observing Seltz
 tarest, and a slight fush overspreid his
tace. There seemed nothing in'so simplo a question to arouse him in this way. and Dufrenne watched him carofully, his seanes keanly alert for anything of in-
terest. To his disappointment, Seltz's answer was of the most commonjlace character.
"It is a appcial kind, which \(\mathbf{M}\). Pow
tier has made for him, after hie own rifer has made for him, atter hie own
formula. "Poudre Perrier,' it is called." formula. Poudre Perrier, it is called.
Ho turned to the case behind htm. Ho turned to the case behind htm.
opened a drawer and brougt forth round cardboard box. "Eightpence is the price. Would you like to try a box ?" He axtended the package to-
ward his customer, who had risen and ward his customer, who had risen and
was adjusting his searl at the mirror. was adjusting his scart at the mirror.
The man turned and glanced carelesely The man turned aind glanced carelesely ly, when I am travaling. Eightpence,
did you say ?" "Yes, sir."
Seliz turned to the case and began to do up the package in a piece of brown
paper. In a Tow moments he turned and handed it to his customer, who had drawn on his coat, and was preparing Dufrenne saw him put his hand into his pocket and draw out some money
which he handed to Seltz. Which he handed to Seltz. The latter nodded gravely and placed
it in his pocket. The thin-faced man did the same with the package, then leet the shop. There was nothing in the least suspicious about the whole wrans action, and the little Frenchman contended himsolf with observing Seltz as
he put away his brushes and prepared to stop work for the day,
Once he saw the man didraw something from his pocket and glance hurriedly at it, but his back was toward the chair
in which Dufrenne sat, and he could sea what it was. A sense ot unaesines filled him, however, as the man who was shaving him drew away the sheet Irom about his shoulders and steppec
back from the chair to rise. made his way to quickly as possible. Seltz was still oc cupied in putting away his shaving im On reaching the pavement, Dufrenne ing Cross. Ho did not wish to join ing Cross. He hid not wish to join taken but a few paces when the latter caught up to him.
"What díd you learn?"" the detective asked, quickly.
Durrenne related in a few words what
had occurred in the shop note the excitement with which the do-
tective listened to to tective listened to his story.
"It may have been the sunuf-box," Du-
vall cried, moving tor his excitement. " "A clever scheme, must say."
He looked about eagerly for the man
who had lest the barber shop so short. a time before, but he had disappeared in
the darkness, "If you could only have warned me in
some way." "It was impossible, monsieur," said Dufrenne, much crestfallen "I could not
leave the chair until the man had Ieave the chair until the man had
finished shaving me."
i. certain what course not," replied Duvall, un"The man went in this direction. In no
ticed him particularly. Perhaps is ticed him particularly, Perhaps if IT
were to hurry I might overtake him." He startco forward. "You stay here and watch Seltz. Mf I do not return,
report to me at M. de Grissac's." He turned and disappeared in the crowd.
Dufrenne went slowly Durrenne went slowly back to the
neighborhood of the shop, and stood in
the shadow of the the Presently he observed two of the as sistants, in street clothes, leave the the
place and hurry off into the darkness
Deter place and hurry off into the darkness.
Neither of them was Seltz.
The lights in the sho
and the proprietor now remained within. tiously looked inside.
M. Perrier stolde.
M. Perrier stood before one of the mir-
ors, arranging his bushy hair There was no one else in the shop.

\section*{Chapter V}

THE SLEEP-WALKER
Grace Duvall arrived at the house of past five, and luckily found him at home. From the maid at the hotel mhe learned that his name was Phelpe, Austin Phelps, and she at once recognized business and social circles in Ner York.
That he should know her, at least by
name, was not at all surprisinganer unt, prior to her marriage ro Count d'Este, had been much courted on ac-
count of both her beauty and wealith She waited in the handson weall. room to which she had been conducted, nervously wondering what the nature of her reception would be. The card she had given to the servant was one of her \(\underset{\substack{\text { In } \\ \text { In. }}}{ }\) that her marriage she remered with a smile, but a lew hours before, had so filled her mind and heart that she had completely forgotten to have any cards prepared setting forth her new estate. It was
as Grace Ellicott that the minister would know her, however, and her buainees in Brussels made it desirable that she should pose as a single woman. It was not at all diffcult. she thought to herself, under the circumstances. rubicund, rather portly gentleman. with white side-whiskers and an air of urbane courtesy that set her at her ease at once. She told him who she was, hopefully, and was delighted to find that

with a pleasant smile, offering his hand: "My dear girl. I'm delighted to meet you. I knew your aunt well, years ago. when you were going about in short dresses. I lost sight of her after she
married \(d^{\prime}\) Este, and went to Paris to live. It was only the other day that I learned of hor death, She was a fne woman. Mrs. Phelps and myself were both very fond of her. Won't you take in Brussels?
"II have suffered a great deal lately. Mr. Phelps," she began, " "from nervousness. I've beon living in Paris, you now, and many things have happened
to upset me. You have heard, of course. of the Count d'Este's treatment of me, and of his arrest and convic"Yes." He nodded gravely. "Of late I have suffered a great deal from attacks of sleep-walking. I get up at night and wander about. without knowing what I am doing. One night I went out on the balcony and nearly walked off into the street." She lied
bravely, hoping that her story would appear phausible. dently somewhat surprised that she should confide such matters to him. "No, that is, not at present. No one good. I have heard so much of Dr. Hartmann and his marvelous success with all sorts of mental and nervous
troubles that I have decided to consult him. That is why Iecided to consult "I see. Well-he's a splendid man. You couldn't do better. I know him very well, and like him immensely. A
throrough scientist. Have you seen him "No, I-I understand that he does not care to take patients without references as to their standing, financial and other"My dear girl. You should have no patients, and as his sanitorium is a small one, he is obliged to charge large fees and take only the best and wealthiest class. He is an investigator.
rather than a practitioner, and for that rather than a practitioner, and for tha
reason is obliged to guard his time." "Then may I ask that you will give
me a letter to him \({ }^{7}\) " Grace said, hesitatingly.
"Certainly. I'll do it gladly, When

I thought of going "Then I'll do better than give you a letter. T'll call him up by telephone
and make an appointment for you. Say nd make anour. It will take you about in henty minutes to drive to -his place. Will that be convenient ?
uperfectly, Mr. Phelps, and thank you very much."
"Nonsense, miy dear girl. Only too happy to do it for you. You must ame dine with us, Just at present on, and dine with us, with some friends. I want you to know her.
He rose and-started toward the door. "trcuse me for a few moments, whille 1 talephone the doctor."
Grace, left alone, could not help regreting the deceit she had been obliged
to practise upon her aunt's old friend, but there seemed to be no help for it. She only hoped that nothing would
occur, elibseguently, to involve the latoccur, subsseguently, to involve the dat-
ter in any disagreeable explanations. Mr. Phelps returned to the drawing Mr. Phelps returned to the drawing-
room in a few minutes, his face wreathod in smiles of satisfaction.
"You're lucky," he said. "Dr, Hartmann tollis me that he can accommodite you at once, as, he discharged one of his
patients, cured, only this morning. It you propose to remain at his house for treatment, which would be the only satisfactory way. I would suggest that you ditive around by way of your hotel and arrange to have your baggage sent at
once.
"I have written the address, and a tow words to the doctor, on this card. Any of the cab-arivers will know it, of course. Dr. Hartmann is one of the
most prominent men in Bruesels, most prominent men in Brussels, I
wish you good luck in your stay at his place, and whenever you are in the city, come in and have luncheon. Mrs. Pholps will be delighted."
He led the way to the door and uoh-
ered the girl into her cab. "Glad I was able to to to her cab. "Glad I was able to be of service "to you," he
said, as she drove oft. "Good evenWhen Grace entered the office of Dr. the fact that it would not be necessary for her to pretend to be nervous. In fact, she felt herself turning hot and cold with fear, and wondered whether ohe would have the courage to play the part which had been so unexpectedly
thrust upon her. The place itself was pleasant and attractive enough in appearance. It con-
sioted of a large, stone building, with a siated of a large, stone building, with a
mansard roof. set back some hundred or more yards from the street, anid surrounded by a small park, filled with A well-kept gravel driveway led from the gate to the main entrance, which as she came in a hort she observed, reception-room, to the right, handsomely furniehed in rather an old-fashioned style, with a large marble mantel, and fireplace at one end of it. In the lat-
room with a pleasant radiance. It the not yet dark, without, and the lights in a lamp was burning in the hall. ant faced conducted her into the middle age, and taking her card disappeared down the hall. In a few minutes she returned, and nodding to Grace, opened a
door at the left of the hall and bade
her enter She found herself in the doctor's office a large room. furnished in leather. A
table in the center contained a lamp, and many magazines, and papers. There Was no one in the room when she ena chair, a door at the rear opened, and Dr. Hartmann came in.
He was a man of puild, and gave, one the impression of great. size, although not in reality above medium
height. His shoulders, however, wer vary broad and thick, his neck short
and powerful, his head large, with heavy A short birl ered the lower part of his face throv through a pair of gold-rimmed spectacles his eyes shone with piercing brightness. Grace thought, as he came toward her,
that she had seldom seen a more strik"Be seated, miss," he said addressing
her in English. though with a decided

I believe." He glanced at the car hich he held in his hand. "Yees," said Grace, nervously talking a "Mr. Phelps tells me you suffer from "How long ha,ve, you observed the symptoms ?" "About six months." answered Grace steadily.

Are the occurrences frequent ?
"Yes. Almost every night."
about the time these many great ahock began ?" "Yeas. My aunt, whom I loved very diearly, had died.
"Oh !
aloep, do you seem to see war in your sleep, do you seim to see her ?"
Grace reflected over this question soveral moments. Then she recollected that persons given to somnnambulism never remember their experiences.
"No. I have no recollection of what "ccurs."
The doctor's face was lit with a sat istied smile. He came over to Grace, and gazed into lits of one of her eyes, critically, felt her pulse for a homen \({ }^{\text {then }}\) asked suddenly infuence of hypnosis ?
She trent
She trembled. If thi hypnotize her, as "She man were to talin that he could, he might force certo tell him everything, and thereby en "No." the success of the lwhole plan. not care for it."
"It is a method of treatment, Mis Ellicott, which I use a great deal." tor to une it upon me. I have always had a horror bt being hypnotized. Please do not.attempt it., maiVery well," the doctor laughed. "It
me necessary. Before we "oo may not be necessary. Belore we go
further. with your case, I shall want to observe it carefully for a fow days. You The doctor named a of course ?
The doctor named a large sutu. tional charge for my services, depending upon the nature of the case,
Grace nodded, although the amount was sumflently large to stagger her. "I shall gladly pay what you asks," she said, "if you can ohly cure me"" side of the room and pressed an electric button.
Miss Ellicott," the doctor went once, Miss Ellicott," the doctor went on.
"One of the maids will conduct yon Your meals will be served there, or yous can eat in the large dining-room, as you prefer. Thare are only twenty other patients. Some of them you might find very agreeable. Maks yourself thorough-
I at home. There are many excellentbooks in the library, if you are fond of reading, and you will parhaps wioh to walk in the ground
friends in the city
"The nature of
no particular regimen, no rules of henlth no particular regimen, no rules of health we close the gates to the park at sumdown. I will see you again this evening and bring you some medicine. It is merely a sedative, to quiet your nerves. It is not possibla to do much
for complaints such as yours by means of drugs."
"He turned as a quiet, pleasent-faceed
"Anna," he said to her in German, "conduct Miss Ellicott to har room, and make her comfortable.
Not wishing to endure the ordeal of
lining with strangers, Grace decided to dining with strangers, Grace decided to. She found the meal excellent, and very wisll cooked. After dinner she sat in an easy chair by the large electric lamp an eas
and re
her.
At At ten o'clock Dr. Hartmanm came in, asked her a few more questions, and
gave the nurse a small bottle containing a dark, brown liquid and instructed hor as to administering it.
good night and went out.
Grace threw down her books and announced that she was ready to retire. The maid assisted her to undress, gave her a few drops of the medicine in a small glass of sherry, put out the light,
and departed, informing Grace that she and departed, informing brace in the hall, within call, if the latter wished anything.

\title{
YMMM
}

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That's about all you'll get for them. Veal them up or raise them for beef or to replenish your dairy herd. That's the sensiible thing and the business-like thing to do,
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\author{
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}

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\section*{MELOTTE SEPARATOR}

THE LAST WORD IN SEPARATOR CONSTRUGTION

her sp.
fear.
Thoughts of Richard, however, soon
reetored her courage. She would face Atter a while, the noises of the houise ceased, one by one. As midnight struck,
all was dark and silent. Only the faint all was dark and silen. A the the faint
sound of the wind among the trees in the park came to her ears. She wondered whether it was necessary for her to
pretend to walk in her sleep this, night. ed whender walk in her sleep this, night,
protond to that the doctor might feel that
in order
 her case was a real one. she ro
ly , undecided, and going to the window. looked out.
The rom in which she was then occu-
pied a position at the rear of the building, and in one of its two wings. From the center of the main buildings she observed a covared passageway or
bridge, axtending out for perrhaps a hunbridge, axtending out for and terninating in a sort of square tower. In one of the rooms in the tower, on a level with hersell, she saw lights, and the figure of a man
moving about. The place attracted her attention. She an inspiration struck her. The covered bridge ran from the main hall not thirty feet from her own door. She determined to cnoss it, pretending to be
walking in her sleep, and find out what Walking in her sleep, and and
she could regarding the brick tower. she could regarcing the krick thawer.
When the time came, she knew that all the information she could possess about
the house and ite 'occupants would be the house and ite occupants, would
necassary to the success of her plans. necossary to the success of her plans.
She throw about her a dressing-gown, was nowhere to be seen, but would waubtless roturn shortly, The chair upcoubtuess return shortho she had been sitting, at the
on which where the bide and main halls point where the side and main halls
met, stood directly underneath the elecmet, stood directly underneath the elec-
tric light. No doubt, Grace thought, ahe had bean called away for a flow
moments by one or the other patients on moments
the floor.
Now was her chance. She stepped noiselessly down the cross hall, her eyes wide open and her hands clenched
at her sides. At the function of the two halls she turned to the right, toward a door which she judged, gave, en-
trance to the covered way. She found trance to the covered way. She found
this unlocked, opened it, entered the passageway, and closed the door behind passageway, and closed the door behind
her. Then she began to walk slowly along the bridge.
ing five feet in structure, not exceed sides of corrugated metal, and a floor of wooden planks. At the far end of
it she perceived a glass door behind it she perceived a glass door, behind
which shone a brilliant light. She approached the door cautiously
keeping up all the while the pretense of walking in her sleep. This was not
easy. She did not know fust frow peralasy. She did not know just how per-
sons who were somnambulists acted, but she had read descriptions of such cases,
she had oace seen a play in which one she had once seen a play in which one
of the characters was a sleep-walker. She tried to give her eyes a vacant, un-
seeing expression, and fearlessly approached the door.
It stood slightly ajar, and throu It stood slightly ajar, and through
the glass panels she saw at once that She arrived at this conclusion from the various medical appliances which stood
about the room, the uses of which she
\(\qquad\) was but momentary, for two figures cluster of electric lights at once at tracted her attention.
One of these was Dr. Hartmann. He
sat at a large, flat-tapped desk, his sat at a large, flat-topped desk, his
profile toward the door, examining with great care a mass of papers which lay
on the desk before him. His forehead was wrinkled with thought, and an ex-
pression of anger dominated his face. At the other side of the desk sat a tall, spare man, with a military-looking
carriage, and a fierce blond mustache which he was gnawing uneasily. The
two figures sat silent for several moments, no word passing between them
while Grace watched intently. Presently she heard the doctor speak.
"it took you two years, it seems, t,
find out that M. de Grissac uses snuff."

Ten months, to be exact." "One yeer onit. "And now," the docto grily. "You carelessly trust on, an to a stranger." is "It is bettor so, is it not? The aflai is dangerous. Neither you, nor \(I\), cin
afford to be mixed up in it," For a fleating instant
thiat she was a. somnambulist and forgo ed human interest and concernd show-
Dr. Hartmans brought his
upon the desk with a bang.
must take simmel
must take some risks roared. "We tell you I must have De. Grissac's in not without further delay. If that doee not solve the problem, we are at the "It will rope.
plied imperturably. "I other man reassurance to that effect. Furthesitive I have every reason to believe that the receive word from London beforo "Have the weelk."
doctor inquired eagerly,
"Thes. The attempt was to be mete will report to you at onco. Our man oothing of the matter, He knows will deliver the motter, of course. Ho the money."
"Who is the fellow
"I do not know his name. I have not seen him myself. Gratz arranged everything in London. I considered it very important that nothing should of-
cur which would connect us with the cur which would connect us with the
matter in ainy way. M. de Grissac will discover his lows very quickly and will use every effort to prevent the box from falling into our hands. Gratz and the others would invite suspicion at once
The fellow they have chosen to handle The fellow they have chosen to handle
the matter is unknown to thie French police. He will attract no attention from that source. The plan appears to be perlect.
The doctor nodded slowly, chewing on "I io cigar.
said, and llooked at his watch. As he finished speaking, Grace heard Bome one approaching her from behlind, but she paid no attention. In a mo-
ment the attendant reached her and touched her lightly on the arm. She turned, gazing at the woman with staring, unseeing eyes. The latter looked at her keenly, then began to leoed her alang
building.
Whem they reached her bed-room, the nurse turned on the light suddenly. The girl did not dare face as she did so. eyes. "Sit sharply. Grace sank upan the edge of the bed. "Take off your shoes," the nurse went on, in a stern voice. The girl had slipped bn a pair of bedthem mechancially, fumbling with them as though trying to unfasten the laces of a pair of shoes.
Grace began awkwardly to remiove the dressing-gown she had thrown emout her. When the woman told her sharply to get into bed, she did so without a what she was doing
It was a splendid pipce of acting, and any doubts as to the feality of her nomnnambulistic condition they were. once dispelled. As soon as the gi pretended to be sound asleep, her eyl closed, her breathing regular and slow. iight and lime, the attend
The girl lay still for hours, wondering what there was in the strange converser Richard in his efforts to recover the stolen snufl-bor. That it had been stolen she knew ; that it had not yet Perhaps Richard might have succeeded in recovering it before now ; if not, the messenger bringing it to the doctor's
office would undoubtedly arrive the nert She determined to rise early, in order that she might, if possible, send word
of what she had heard to Brussele by means of the young man who drove the delivery wagon.

THE FARMER'S ADVOCATE.
MARCH 19, 1914


The Growth of the Soul. How does the soul grow? Not at all
in a minute; ground, and now Now it resolves, and again the will faileth:
Now it rejoiceth, and now it bewalleth; Now its hopes fructily, then they are
blighted: Now it walks sunnily, now gropes be
nighted: Fed by discouragements, taught by disSo it goss forward, now slower, now
laster, Mil, all the pain past, and the failures It is full grown, and the Iord rules the
\(\qquad\)
When earth's last picture is painted, and When the oldest collors have faded, and We shall rest, and, faith! we shall need Till thel Master of All Good Workmen
shall set us to work anew ! And those that are good shall be happy, They shall splash at a ten-league canvas They shall find real saints to draw They shall work for an age at a sitAnd only the Master shall praise us, and And no one shall work for money, and But each for the joy of working; and Shall draw in his separate star. the God of Things as They Are !
-Rudyard Kipling. Pauline Johnson.

Lone Voyager ! Thy Ship of Dreams Spreads its free sail and slips away Into the distant visioning
That lies behind the end of day. The restless, tide's impatient wave In from the broad Pacific rolls,
And sunset marks a mystic way
\(\qquad\)
\(\qquad\) Wave you farewell and strain our eyes
Till that bright speck which is your sail
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\) and the hostess addrest her husband's "Do have another piece of pie, "Why, really, I've already had two;
but it's so good, I believe I will have "Hather." ha !-mother's a winner !"" asid little Frank, excitedly. "She said she'd bet you'd make a pig of yourself."-
Harper's Magazine.
\(\qquad\) Tower of Babel was progressing nicely are we going to golve the trust question?"' tongues that no ane has been able to
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)


\title{
GET PAID FOR YOUR WORK \\ These Premiums (every one excellent value) Given Only to Our Present Subscribers, For Sending in Bona-Fide New Yearly Subscriptions, Accompanied by \(\$ 1.50\) Each.
}

Present Subscribers (if not already paid in advance) are expected to send their own renewal for 1914, at the same time as sending in new subscriptions. Below are described some of the premiums which we are offering for procuring new yearly subscriptions to "The Farmer's Advocate and Home Magazine."

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the required number of new subscribers the required number of new subscribers. Send for Sample Copies and Agent's. Outfit To-day.
The William Weld Co., Limited, London, Ontario

MARCH 19, 1914
A Breton Barber Shop. The old woman who lived in a shoe roally know very wel what to do with her many children. She "spanked them all soundly and sent them to bed." yrr. Frances M. Mostling, in ""The Brotons at-Hame," describes a barber shop where the same expedient had, it part, at least, been employed. It ahould
be explaianed that in Brittany the beds bo axplained that in Brittany the beds the ate in little rocesses in the wall, I had gone with my husband to find a barber. It. Was dusk when we entered work was over for the day. The least custamer sat idily in a corner, goosiping
vith the barber's wife, while the with the barbar's wife, while the man
of rezors himself was idly glancing over of rezors himsel was illy glancing over
lat wekk newpapper. It was too dark to see the detaile of the room, but t managed to find an oak chast in fromt
of a beod, and aat down to watch proof a bod, and aat down to watch proIt was a curious sight. In the middle Hight tweed suit, a towel round his meck, his face covered with ghostly, cleaming lather tran front of him stood the barber's wite a lighted candle in her havd, to guide her husband in his
work. Finally, his thin. cadaverous tace almost touching that of his victim, the berber himself, his loft hand holding my husband now by the nose, now by Suddenly, behind me, I heard a ment and felt a warm little hand on the back of my neck. There was a smothered laugh, and I turned to see a pair of eyes twinkling at me from the against which I was sitting.
"Paiser-vous doncl" growled the barBut the laugh had broken the charm. From every corner came rustlings,
giggles, little voices, and shining merry gigges. And everywhere there were beds -beds full of boys and girls. you ?" I asked. as soon as the bewilderment of finding myself surrounded by
this crowd of onlookers allowed me to speak. "Tourteen, madame," replied the wo "The house is so small that we coneole ourselvas by the size of our family,
remarked the barber, jocosely; at which there was much merriment in the cupboard beds.-Youth's Companion.

The Different Note. The teacher turned the slip of paper
over with a smile. "I thin liave it framed and hung on the shall cast down," she gald whenever I am "What can be in it ?" questioned her triend. "I don't get any notes from
mothers that I want to hang on Tall." that I want to hang on the It is from Mrs. Warren, and tolls keep. how pleased she is that Teddy is doing so well and is so interested. And there toacher. I can't tell you how it cheared me. I think in my ten years' experience I have had all the varieties of complaining notes, but this is the irst praising one. I'm interested in all foeling a little additional interest in Teddy since I see that my efforts are understoed and appreciated."
ful to a teacher of mothers feel her efforts," gate the other, musingly her efforts." said "Well. I wish mo
Wree the trouble to say so." said the frat.-March Mother's Magazine.

Placting Daniel.-"Who was Webster ?" "A statesman." said one boy. "An orator," said another. "But what is a statesman ?' ' asked the captalin. "A man who goes around making speeches," just exactly right," said the gentleman, miling. "Now, I go around making apeeches once in a while, but I'm not a statesman at all.". "I
up a bright "." spoke up a bright little fellow. "Itt's a man making good speeches
- Christian Register.

ГHE FARMER'S ADVOCATE.
559

My Vagrant Heart. My heart it wandered far away among know not tow tit learned the road, or But thorn and thataran,
And corn and bramble drew aside,
While creareenars therket openened wide, While creepers waved long arms to
guide III close Among the upland scents. the white spread caravan.
But when it wandered home again, I So kwoen it wot tor mine,
So swot it was of wood dmoke and I hardily bado it welceme, scarce ditared So tragngo and pweot
So strange and woent 't laughsd to me
\(M_{y}\) heart it followed fast and far along koow not opon ways tept thelr pace and Whot how tit kopt thelr pa
 The beach and oferered friendly ahate) With cheering beocon meent That shone upon the hidden path when

But when it homeward turned at last, Sa wrsathed it not again
Sa wrsathed it was bracken, sweet
with heather mist and rain. I heard its plaint boside the gate, but scarcely stirred or guessed,
So pleading soft it called to me, so

My heart it wandered hand in hand with dark-eyed gipsy folk
know not how it knew
know not how it knew
learned its own desire
Or why within its mem'ry clung The gipsy jargoning chance-fung
Or tound so ready While night winds wane wened into flame the embers of their fire.
But when it lilted home to me I knew
So wild and at atrange the moor wind
sang within its sudden call:
I only heard the gipsy folk trail by
And found a spray of jasmine fiung
within my latticed pane.
martha haskell clark.
To a Toad.
Thou poor, half-living brother worm, Retreating from my path peili-mell
For fear my steps might crush thy fam Perchance from such condition came Immortal man, who dares to spell The characters writ on thy form ! Perchance within this human brain
There linger traces of the thing That make thee fit for earth's domain Perhaps thou, too, mayst feel the pain of life hid in the joy it brings !
A silver moon is on the wane A company,-do thy big eyes Regard their movements with delight, As though some great illumined kite Were drawn athwart the purple akies, Its tail swung by a lantern lit? While thou art blinking at the grass ? Henry Dumont in "A Golden Fancy.

\section*{Poets With Power} Twinkle ! twinkle ! ittle star," the Way abote said, and lio the tharth mo tar the stare atwinkling go. \({ }_{-S \text { San }}\) Francisico Call. Roll on, thou deep blue ocean roll ! And ocean rolls opbodient to his mande. tory word. "Blow, blow, thou winter wind," the third one gave command.
And every winter now we hear it blow to beat the band. \(\begin{gathered}\text { Boston Transcript. }\end{gathered}\) "Thou, too, sail on, O ship of State," a poet once did sing;
And ever since the ship of State's been
doing the same thing.


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EXCELSIOR GONTRACTS DESIRABLE VAGANGIES \\
ARE UP-TO-DATE. \\
\hline FOR AGENTS.
\end{tabular}
Head OMc TORONTO

Old Tom
By Alice Jean Cleator. John Porter mounted the veranila
steps with an apprehensive heart. Yot he reassured himself. "Women are such silly santimentalists inm such matters-
always letting their sympathies rum always letting
away with them.

\section*{"Better brace !
sooner the better."}

Mrs. Partar looked up smilingly her letters which the postman had fust left. Her plosanat attitude made his
toask the harder. But feeling that the task the harddr. But feeling that the
dreadfol ordical. would give ease in his dreadfull ardcal would give ease in his
troubled conscience he sat down and be trouble
gan:
"Now, Doris, you mustn't take o over what Tm about to say. But I
may as well out with it first as last.
Try and I've sold old Tom. I hadn't expected to sell the old fellow; \(\mathrm{I}^{\prime} m\) sorry af ready,
dollars for him, and it he couldn't have got rid of theat cough and rheumatics, even a jockey soon wouldn't have bought
him for three.
Porter expected a protest of words but there was complete silience. The arccusing sentance of a court of justice could
not have given him a keener torture At last, in a strange tone his wifo inquired :

Who bought Old Tom ?"
"Tony Menzi."

\section*{terday ?}
"Has the man gone?
"Yes, ho starte with him for the city Than Mrs. Porter " "spoke."
"JJohn, I 'm going to say something I've never thought, felt, or said before I \(\mathrm{I}^{\prime} \mathrm{m}\) ashamed of you I You've orten
made a protest at cruelty in the com mand arty but what have you done but thoughtless and crual deed? Tom gave us twenty years' work for nothing but his board. He's hardly ever had a
whole week-day of resty whole week-day of rest. It's been Tom
here and Tom there, always put to do here and Tom there, always put to do
the extra jobs, and trips to town often Then he was tired out. And now, just
because he wes getting :old and lame and had a cough, you've sold him to a lire of misery and neglect. I thought you despised a traitor. But what else
have you been to old Tom? I wish I could at least have said good-by to him and told him how faithful he has been!" Portar knew he had the wrong side of dofense, saying that farmers were praotical sort and couldn't let "chickenheartsdiness" stand in the way of busiSeeing his words of
thunght atruck him
thought struck him. He took out his pocket-book and
tossed three tivedollar bill Into his \({ }^{\text {wifer }}\) II lap. heard you talking about a new
dress the othar"Do you think I could wear drese bought with the price of old Tom? I'd rather wear a three-cent calico!"
Little more was said, but each day at the time Porter had been used to pro
pare old Tome Sare
strange sense of remorse and longling for
the faithful old creature and loneliness came over him as he passed the empty stall.

Over a year later, Porter on a busi-
neas trip, was driving his "'machine" thirough a beautiful section of country several hundred miles from home.
He heard angry shouts and He heard angry shouts and saw a
short distance aheod a heavily loaded
wand wagon and a allen horse.
Something was wrong, and he stopped his auto. The wagon was twice too heavily
loaded for the old horse that evidently had passed from one master to another and had at last become the victim of
the jockey and been sold to an ignorant, the jockey and been sold to an ignorant
coarse peddler. The man had been whipping the horse
but finding that a fancerail to further beat the old crear ture.
"Put that club down!" commanded Porter. "What's the trouble ?""
The peddler obeyed The peddler obeyed, pointing angrily
to the horse and wagon.
o.
dollar ! Man cheat. Horse notte ne
good I Ikill hlm \(t^{\circ \prime}\).
Porter freed , the horse from the minn Porter freed the horse from the mileerof recognition greeted him. A faint nelgh Tom 1
"It's the first time Juhn" ever forgot,"
thought Mrs. Porter with thought Mrs. Porter with a wistial ande as the day passed on- to afternoom birthdoy. The pleasing little "surpries" gift that always marked the day was lacking
She
She heard voices at the side varanda.
and going out, was greeted by a sight.
that filled her eyes with joyful tears. Her birthday gift had not been lorgot ten : Old Tom's familiar face grgeeted her-just a shadow of his former self. silent as to the harrowing experience at the saund of hear, but neighing for jo at "Old sellow, your vacation has jus begun," said Porter, "but I fear fit' come pretty late. You'll be a star boarder as long as you care to stay
I've learned my lesson." Old Tlam was a "star-boarder" for ta months. Then one dreamy autum morning he was found "esleop," under the whispering chestnut tree where in his busy life he had seldom had a reeb Dumb Animals. \(\qquad\)

\section*{'Bout De Lady H'of De Snow}

By Clarence W. McCuaig.
In "Canadian. Century."
Dey talk about de wedder
In dis country, -"Dat it's cole Tinks we've got de ole North Pole But, ba gosh, dey don't know noting Ef 'e hlour lan' an' how she's grow, Ef 'e did, 'e'll change ' \(e\) 's notion
'Bout de "Lady h'of de Snow."

Dat's true, we've got de Winter An' h'our weddar's hard to beat, But dere's something in de \(\mathrm{h}^{\prime}\) air her
Dat makes you keek you're feet. Dat makes you keek you're feet. Fer it makes ye smart to go, You can't put on too much hustle
We hear tolle lots of story.
Dere's de man behin' de ole gun,
Dere's de man behin' de time,
Dare's de fella tinks he knows it all, What leoves across de sea. But dey make one very, beeg meestak Fer we're not pile up wit snow-bank
From de Spring de whole year roun',
An' dere's more dan beeg, white snowbill more dan beeg, whit H'on dem apple-tres dat's soun. Ef you'll drop aroun' h'on September An' make leedle tour wid me,
I'll be show you juicy h'apple, Wid red cheek. h'on dat same tree In de Summer, when I'm workin' H'on de farm, cuttin' de hay,
Gosh, itt's hot, just see mo sweatin' I'm very scare for melt away, Fer de Sun 'e gets up h'early,
You can boil h'egge h'on de groun' An' 'e makes yrou wishin' hot' an
Some dem snow-banks could be foun

I'll be travel many countree,
Work in h'Egypt, h'on de Nils, Wirk in h'Egypt, h'on de Nil, De tam we fix, dem nigger wile ; Dene it's cole ! Well, yes, sir-ree Den I'll get job on de States, too, Wild Leduc. on Kankakee. But in all dem place \(1^{\prime} 11\),travel, There's no. place lak ole Quebec,
Plentee work.-and heal thy wedder, Plantee work, -and healthy wo
What more kin one h'expec'? H'on de Winter-time we're happy Carnival and jolly pleasure. Drivin' roun' in ole burlow. Here we've got de lan' of sunshine, H'every saison has 'es pleasure. An' fer wile beas', "Don't be scare."
\(\mathrm{An}^{\prime}\) h'our lan' can grow de bes' crop An' h'our lan' can grow de bes
H'of all kin'. - you never saw. H'm no shame. at all, for sayin 'm no shame, at all, for sayin"
"Hurrah pour Quebec, (Canada.

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heavy producers and fresh. The 50 head of Shropshire ewes and ewe lambs are as nice a flock as may be found in th
Province. The farm of 160 acres is also R., Burford, one mile

Cedar Posts.
1. Will the small end of a cedar poot last longer in the ground than the blg
end I have heard some people say it will.
2. Would it be advisable to sharpen 2. Would the advisable to sharpen ground so that it could be driven back to its place in case the frost heaves it
out ?
N. S .
Ans.-1. We are aware that there fl
quite a prevalent belief that the small
auite a prevalent belief that the small the ground than the large end, but do not think that there is very much in it.
Most of the posts we get nowadays are Most of the posts we get nowadays arô
small enough at either end. 2. If the posts are small if you have power enough to drive them in, it would not be a bad idea to sharpen them, and, in case they heave, drive them back

\section*{Veterinary.}

Chronic Cough.
Pregnant mare has had a dry cough A. Chrolic very hare to Ans.-Chronic coughs are very hard to
cure. Give her every morning 1 dram powdered opium, 2 drams solid extract dram camphor, with sufficient oil of tar to make plastic. Roll in tissue paper and administer as a bell, or dissolve in \(\frac{1}{2}\) pint of warm water and give as a

> Blister-Result of Wound.
1. Give prescription for a sweat blister: 2. Mare was cut on fetlock joint. A
puffy swelling resulted, which I treated, puffy swelling resulted, which I treated,
and it has disappeared, but the skin is somewhat thickened.
Ans.-1. Two drams
cantharides.\(~ i n ~\) eight ounces alcohol.
a liniment made of 4 drams are iodine and iodide of potassium, and iodine and iodide of potassium, and ounces each of alcohol and glycerine.
Rub a little of this well in once dally.

\section*{Constipation.}

Wo yearling calves refuse food, bowels do not move, and they froth from their mouths. They also have a cough.
Ans.-The cough indicates tubercular trouble, for which nothing can be lone pated condition symptoms indicate a constieach \(\frac{1}{3} \mathrm{lb}\). Epsom salts and \(\frac{1}{\frac{1}{2}}\) ounce ginger, and follow up with oil and 40 grains nux vomica every eigh they will not eat anything, drench then with boiled flaxseed.

Disease in Sheep
My sheep have some disease. They be come dull, grind teeth, and try to ge into a corner or some dark place, shake their ears, and become wear died with out warning. H. C. C. Ans.-A careful post-mortem of the one that died would probably have revealed the cause of death. In some ways the symptoms given indicate grub in the
head, for which practically nothing can be done. In other particulars, they inbe done. In other particulars, they tive
dicate partlal paralysis, due to digestive trouble. Purge each with 8 ounces Epsom salts, and follow up with 30 grain nux vomica three times dail

Eye Trouble.
Cow has a growth on the inside of
her lower eyelid. It has been growing her lower eyelid. It has been growne
for about two months. A week ago the other eye became sore, and a scum has formed on it. I have put pulverize alum in it several times without W. J. J. Ans.-The practice of putting powdered. alum or other irritants into an animal's eye is very cruel, and causes the patien intense agony without doing any irritation. Keep her in a darkened stall. tion. Keep her in a darkened stal.
Get a lotion made of 15 grains sulphato Get a lotion made of donna, and 2 ounces distilled water. Bathe the eyes well three times daily with hot water, and after bathing It a few drops of the lotion into each. Joy is probable that you will have to employ a veterinarian to remove te ball be in-
mentioned, and if the eye bate mentioned, and if the eye
volved, the whole eye, in order to save
the sight of the other.

\section*{ound．}
weat bist
wh joint．景薄量
\(\underset{\text { ntharides }}{\text { H．}}\)苜呂管落
tood，bowels
th from their Cood，bow
th，from
cough． ss tuberch1
can be
cot
 \(\frac{1}{2}\) ounce gin－
pint linged drench them

MARGH ：I9：1914


THE wife of every farmer should bank account．
And it does not matter how busy you And it does not matter howe，or how little time you have to devote to the raising of poultry we can show you how you can make a good income and build up a substantial dank account
Peerless Way．
We can show you how to be indepen－
dent of the money yourhusband gets for his crops and other farm produce，so that When you wish to buy clothes，or The Peerluss
Way Malkes
Poultry Pay know the to
right way to
raise and keep poul try it requires very little
outlay or money，and take out very little of your time．The
bught way is the Peerless Way，that is， right way is the Peerless Way，that is，
by hatching the eggs in a Peerless by hatching the eggs in a Peeriess
Incubator and rearing chickens in a Peerless Brooder．

Bowsman River，Man a fribought a Peerless machine fro ever have seen， 1 broght out three
hatches ；the first hatch 1 got \(x_{3}\) ． chicks from rob eqgs，second hatch
got 143 chicks from 204 eggs，and the

 be without one again． Yours very truly，
（Sgd）Mrs．Sol．Richet．＂o We have prepared a book for you en－ titled＂Money In Eggs，＂if you wonld be interested in learning how other women like you are making in－
dependent incomes from the sale of eggs and plump chickens．Experi－ ence is not essential．We are practical
poultry raisers ourselves and will fur－ poultry raisers ourselves and will fur－
nish you all the information necessary nish you all the information necessary to make your
some profits．

Fill in and send this coupom
now for full particulars． Lee Manfe．Co．Ltd．，Pembroke，Ont． Eggs．＂ \(\begin{gathered}\text { Please send me ths booklet＂Money in }\end{gathered}\) Name．

Address．

LD5 MANUFACTURING CO．LTD PEMBROKE वmanion

THE FARMER＇S ADVOCATE


\section*{CowStallsEverlasting}

Equip your barn to last a century by fitting it up
Galvanized Steel Stalls，and cement floors and walls．
You＇ve seen how quickly old－style wood stals soak up
manure and become unsanitary and unhealthy for the cattle， manure and become unsanitary and unhealthy for the cattle， how soon they rot and break，and how often they must be
repaired．You know，too，all the time and trouble and money it takes to be constantly renewing them． The old way is the expensive way．Try the new．Put in
BT Steel Stalls，and you＇ll not have to spend a single cent in
repairing your stable as long as you live． Won＇t Break，Rot or Burn We melt down steel rails to get the hard， 2 －inch steel tuhing for BT stalls．
They＇re strong enough to stand the heaviest strain－we guarantee them． BT Steemanure can soak into steell Steel will even outlast your barn． Stable acids and moistures or not affect them，for every BT Steel Stall is
carefully galvanized in out rect the pores of the metal so BT Steel Stalls won＇t tust．They always look brig
and clean in the Barn．

for half the distence runs on his farm farm for the other half．Is ditch sup－ Who owns trees between M＇s fence and ditch？\(T\) is cutting the trees．D．M． Ans．－If the fence is not on the line，it
would seem that the ditch is the line． We take it that the ditch runs down the line the entire length of the farms，and
that for convenience，and likely that for convenience，and likely by pre－
vious agreement，one－hall the fence is Vious agreement，one－half the fence is
placed on \(M\) ，while the other half is on
T ，which would seem equitable．If the center of the ditch is the line，then trees on either side of it belong to the party
owning the land．

Hotbed．
I have some storm－window sashes not
in use，and have wondered if I could use them for a hotbed．As I know nothing
whatever about one，I should require complete instructions．
Ans－－You require very little more in
formation than is conveyed in an article
in our number of March 5th to in our number of March 5th，to con－
struct one of these hotbeds．The whole struct one of these hotbeds．The whole
idea is presented there，which simply than the size of your window－frames and put in about one foot and a hralf or two
feet of horse manure and tramp it down thoroughly．On top of this，have abl with some leaf mold mixed with it．The frame should be one foot in front and two feet high at the back，in order t
give slope that the sun may strike it and that water may run off．The glass should be a considere plants in the bed so it is well to raise it some little dis tance above the surface of the soil． Ferrets．
1．What is the age of a ferret？
3．How many young do they have？ 4．What is the best feed？
5．What is care of young？
6．What is a polecat ferret
6．What are the different kinds？ female separate？
9．What is the period of gestation？ 9．What is the period of gestation？L． Ans．－1．Who knows？
one week or several years．
2．Twice annually．
3．Six to nine at a litter
3．Six to nine at a litter
4．Bread，milk and meat．
4．Bread，milk and meat．
5．Leave them with their mothers for
as above．
6．A polecat erret
believed to be a cross of the wild polecat
and the ferret．and polecat．
7．Common and
563
Questions and Answers． Sheep on Shares．
I have sheep on half－share，and
raising some on cows＇milk．Coul
owner claim a half share in tho
raised by hand？
Ans．－We think so，but it wou
scarcely equitable．
Horsepower for Engine． Would you give me the horse power of and a stroke five inches，running between Ans．－If this is a 4 －cycle engine，it
If 2－cycle，about 1！horse－power．
W．H．D． Harvesting Timothy． What is the best method of harvesting
timothy for seed？Do you know of any \(\begin{array}{ll}\text { book treating this subject？} & \text { A．W．M．}\end{array}\) Ans．－The general practice in harvest－
ing timothy seed is to let it ripen；cut it with a seli－binder；bind it into rather
small sheaves；allow it to dry thoroughly
in the shock，after which it is hauled to the barn．We do not know of any book treating this subject alone．We have several good farm books which cover the
subject，and from time to time articles appear in＂The Farmer＇s Advocate＂go－
ing thoroughly into the matter． Cutting Trees．
Cutting Trees．
nother．M＇s fence runs on
\[
\begin{aligned}
& \begin{array}{l}
\text { pal of the So shol ground. , wrote us: "The contractor, with the permis } \\
\text { of theidrectors, is going to use the } 20 \text { BT Steel Stalls again }
\end{array}
\end{aligned}
\]

9．Six weeks．


\section*{ \\ SERVICE AT LOW COST \\ is the explanation in a nutshell.
All users of \\ "LOHDOMI EMGIIIES" \\ than yourself, at your own work Let one prove it to you. It is Al right" and "our pleasure All the advantages of both
water-cooled and air-cooled Vertical non-freeze sizes, \(11 / 2\) \(21 / 2,31 / 2\) and \(41 / 2\) h.-p. Horizontal single cylinder and double opposed, 10 to \(50 \mathrm{~h} .-\mathrm{p}\). \\ LONDON GAS POWER CO., Limited \\ London, Canada}

100 Standard Walking Plows



Wheels extra, 75c. each. Skimmers extra, 75c. each. Erie Iron Works, Limited, St. Thomas, Ont.

\section*{\$10 each}
sumer

\section*{Questions and Answers.} Miscellaneous.

Cabbage Sown in Drills. Can you, or any of your readers, inform me if cabbage in the main or late
crop, can be grown successfuly, sown in oow, can we grown successtuly, sown in they are to grow, and thinned out and cultivated and hoed similar to a root crop? The expense of transplanting in a large area could be obviated by this method if it were successful. Also, what
time should they be sown, and how much seed per acre?
Ans.-If you have rich and fertile soil, you may be able to successfully grow a crop of late cabbage in the way you sug-
gost. They should be sown early, the time you sow mangels, and when they are all up some distance they may be thinned out to about two to three feet apart in the rows, the rows being three
feet apart. This system has given suc-
Ther feet apart. This system has given suc-
cess in the past, and there is no reason why it should not do so in your case.
In the instance upon which we base this In the instance upon which we base this
reply, the seed was sown with a turnip drill, at the rate of about two pounds
per acre. You will have to try per acre. You will have to try out
your machine and decide upon the distance, but this quantity is about right.
Some of our readers may also have had some experience in this direction which they would be willing to give our readers
in print.
```

Silos and Blowers.

```
1. Are two small silos better than one
large one?
large one ?
2. Will silage keep as good in the
small one?
3. Are they ever set in front of the
barn? I should think they would be
barn? I should think they would be
handier there, especially for summer use
handier there, especially for summer use,
and it would not be so much exposed to
and it would not be so much exposed to
stofm and wind.
4. Which would
carrier or blower?
5. Can a farmer put a blower on his
cutting-box himself that will work all
right
6. Will the carriers work on any large
box all right? I have a horse power
to run it.
7. Which do you prefer, carrier or
blower, to do
blower, to do my own work on a small
farm?
R. J. R.
Ans.-1. This will depend uporr the
amount of stock you keep, or if you in-
tend to feed frem
tend to feed from the silo in summer, in
which case a summer silo would be ad-
visable.
visable. If you just have an ordinary
farm, a silo \(35 \times 14\) will \(\begin{aligned} & \text { answer your }\end{aligned}\)
purpose very well.
2. Silage will keep good in a small
silo provided
silo which is not high will not give A
good silage. We have in mind several
silos erected last summer, from which the
silage is coming out in poor condition,
owing to the
owing to the lack of weight from the
surface layers of the silage.
3. They are usually set
3. They are usually set where they
will be most convenient to the mixing-
room, or where the silage may be thrown
nearest to where it
not matter materially whether they are
set at the front or at the back of the
barn. If it would be more convenien
at the front, there is no reason why you
should not place it there.
4. Blowers require much more powe
than carriers.
5. If you are somewhat of a mechanic,
no doubt you could attach a blower to
your cutting-box, but we fear that it
would not give you the proper satisfac
6. The fans may be removed and the
carriers ronnected up with
ting-box. This is a question which
you are in a better position to answe
than we are. A silo filled with a car
rier by your own horse power, can h
filled on two or throe
allowing the silage to settle, and you
will be able to set
It will take you longer, of course, to fi
box than with a large blower, but there
carriers, that you can fill it at your own
convenience
your silo than filling all at material in
yone. Ii
you
you are so situated that you can oper-
ate in the last-mentioned way, no doubt
it will be to your advantage in the end.
tend to feed from the silo in summer, in
which case a summer silo would be advisable. If you just have an ordinary
farm, a silo \(35 \times 14\) will answer your 2. Silage will keep good in a small yood silage. We have in mind several
not high will not give you
mind silage is coming out in poor condition, surface layers of the silage. whem the
3. They are usually set where the room, or where the silage may be thrown not matter materially whether they are at the front, there is no reason why you 4. Blowers require much more power
than carriers. no doubt you could attach a blower to your cutting-box, but we fear that it
would not give you the proper satisfac6. The fans may be removed and the
carriers ronnected up with a large cut-
7. This is a question which
you are in a better position to answer rier by your own horse power, can hed
filled will be able to get more in your silo with the carriers and the small cutting-
box than with a large blower, but there carriers, that you can fill it at your own you are so situated that you can oper-
ate in the last-mentioned way, no doubt
it will be to your will be to your advantage in the end.


AT ONCE

ORDER your POTASH at once Fertilizers should be applied totic soil as soon as the land is workabe so that the crop can get the full benefit of these materials in the first season.

Many disappointments with fer tilizers are due to the fact that they have been applied too late for the crop to get full benefit from them, fit. Remember these fertilizers not used up in the first season but are effective for several seasons.

Nitrate of Soda should generally planting time. Slower dressing at trogenous fertilizers can be applied earlier with the other materials.
Muriate of Potash
Sulphate of Potash can be obtained from the leading WRITE for our FREE, educative bulletins, which include:
"Artificial Fertilizers: Their Nature
"Fertilizing Grain and Grasses."
"Fertilizing Orchard and Garden"
"Fertillizing Hoed Crops,"
"Farmer's Companion," etc

\section*{German Potash} Syndicate
\(\underset{\text { Temple Bldg. Toronto, Ont. }}{1106}\).
"Jimmy, Always Give



Learn Shorthand and Typewriting We teach you at home in spare time and fit
you fuly for an officio popition the demand
hot Write for information
Canadian Correspondence College, Ltd.,
Dept. E, Toronto, Canada.

Strawberries \({ }_{\text {their }}^{\text {and }}\) RASPBEER developent reach on the shore of Lake Erie. Our Free Catalog dees
cribes 50 leading kinds, with cultural directions,


CLYDESDALE STALLION for quick sale. Terms and particulars address
march 19, 1914
THE FARMER'S ADVOCATE.
Quections and Answers.

I bought a Babcock tester for milk and
cream a short time ago, but have not cream a short time ago, but have not tost with it. Should the brass pockets -directions given for milk? What color
should the fat be when it is ready to
read? read?
A. D. We never heard of filling the
brass pockets with hot water for either brass pockets with hot water for either
milk or cream testing. Is your acid the right strength, and do you use the proper
quantities and time for testing? You are likely getting burnt readings. The A Refrigerator. Tell me, through your paper, how to
make a homemade refrigerator, and what
material is required.
R. \(S\). \(B\). Ans.-We have no complete directions as different conditions demand different principles on which, refrigerators are to design something suitable. First, ice is heavy and descends; second, water to some receptacle in lower part or out atogether; third, inner walls, including sheet metal, a good conductor; fourth,
outer walls, between which there should be a space for circulation of cool air,
\(\qquad\) An Insect.
\(\qquad\) beatle that I found on the snow, and had
been on either a poplar or a cedar tree. I would like to know its name, and if it
is injurious to trees. When I found it, hard, but after being in the house for a short time, it became soft, and though
it is more than two weeks since \(I\) found
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\) damage

About Interest
\(\qquad\)
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\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\)
\(\qquad\) You had better straighten the matter out
between yourselves,
\begin{tabular}{|c|c|}
\hline & \begin{tabular}{l}
Home-grown and Tested Seeds \\
Remember: BEST SEEDS-BEST GROPS \\
SPECIAL OFFER ! Order Our Famous Special Collections \\
Farm Garden Collection D.-31 selected varieties, \(\$ 1\) postpaid. One packet each of
Beans (wax), Beans (green podded), Corn (early sugar), Peas (early garden), Beets (early Lettuce (curle \(\square\)
\end{tabular} \\
\hline & \\
\hline & Ontario Seed Company Successors, Waterloo, \\
\hline
\end{tabular}


Fight Pests, Insects and Scale With the Greatest Weapon Made--SPRAMOTOR

This man got tired of having his potatoes and row crops ruined year after
ear. Now he gets after bugs, and other parasites, with a Spramotor. See how thoroughly he drenches the plants with the beneficial spray Look closely at the picture, and you will see, that while the overhead rows, are forcing the mixture under the leaves and through the stems, so that no single piece of foliage is missed. That's the thorough Spramotor
way, and the only way to spray, if you are going to do it Twenty years' experience in making spraying machines, has taught us the important facts. We have seen men improve their yield of potatoes, from hardlo The outfit shown above, sprays an acre of row crop in fifteen minutesthe horse furnishing all the power and giving 200 lbs. pressure at the nozzles. Over twenty different patents cover the val
in Spramotors, that no other machine can have. NOTE:forward full information about a Spramotor, that will exactly fill the bill. We make
them in many styles, and at prices ranging from \(\$ 6\) to \(\$ 350\). You will also receive FREE
B. H. HEARD SPRAMOTOR 1736 KING Street \(\quad \therefore \quad \therefore \quad\) London, canada

Unreserved Auction Sale of High-class Stock, Implements, Produce, Etc. I will sell for ROBERT McGORMICK \& SONS, Lot 27,
Con. 6, South Dumfries, four miles north, Thursday, March 2 jth, 1914 The following: Six extra gord farm mares and geldings, a very choice lot, Fourteen head of pure-bed Fifty Tamworth and Yorkshire sows and shoats.
bred Durham grades. Fift ments, Dairy Utensils and Farm Produce.
\(\qquad\)
R. McCORMICK \& SONS, Props., Paris, Ontario SCOTT DAVIDSON, Auctioneer, Lock Box 255, Paris, Ont.


Registered Seed Potatoes
My Registered Green Mts. yielded last season aver 600 bushels per acre
Write me for price list of Write me for price
other varieties. C. Fred Fawcett, Upper Sackville, N.B. BARLEY \& OATS We have another fine supply of 21 barley, samples
excellent; also a supply of improved Siberlan oatio
Our original Our original supply was grown from registered
seed. Present supply was speclally, srown for
seed purposes and is clean, barley, minety centes JOHN ELDER \& SONS. Hemsall, Ont.
Jotr, FOR SALE-SEED CORN \begin{tabular}{l} 
Many varieties; also Feed Corm, Apply to \\
Edward Tellier, St. Joachim, Ontario \\
\hline
\end{tabular}

 SEED CORN FOR SALR



 SILVERWOOD FRUIT FARM
W. J. Galbraith, \(\quad\) Phelpston, OntSome Spuds - "Huckebikn" will deliver
 P. N. HAIGHT, Box 124, St. Thomas, Ont.

\section*{MOODY DISC DRILL}
 your soil, etc. Have you considered that failure is possible unless you have a reliable SEEDER? Our 13 Disc Drill is constructed to give best results. It will sow evenly and at uniform !depth in any ground, whether soft stony or hard.
LOOK AT THE CONSTRUCTION
It is strongly built, yet light draft. Large tired wheels will go over any soil easily. Large capacity grain box. Positive feed, that handles all grains, and is easy to regulate. Grass seed box well constructed, and sows the seed perfectly.

Will pay the cost in a few seasons by the grain it saves and the record crop produced.
Get Catalogue from our local agents, or write near-
est branch for particulars and Catalogue of Spring Maest branch for particulars and Catalogue of Spring Ma chines. We manufacture a will une, especially individual
threshers for the farmers' own use. Particulars on request.
the MATTHEW MOODY \& SONS CO montreal, que. puebeg, oue. blaisville, pue.




\section*{Plow Sale}

 They will be sid at a aacrifice. Get your order
The Exeter Mfg. Company Ltd., Exeter, Ont \(\frac{\text { The Exeter Mfg. Company Ltd., Exeter, Ont }}{\text { Stallions wanted-any age or breed in ex- }}\) STALLIONS WANTED-any age or bred in ex-
change for a 9 acere
phipe

\(\qquad\)

\section*{Gossip.}

When you are building that new wire on èvery fifth or sixth post, putting it on the face side of the post so as the wires of the fence come into direct contact with it. It will cost but a triffe, and may save some valuable horses or cattle from being killed by lightning. This is but a trifle. Don't let prejudice prevent you from doing it.- \(\mathrm{R} . \mathrm{H}\). H. \(^{\text {H. }}\).

Elsewhere in this issue there appears an advertisement of P. S. Riddell, R. R. No. 3, Granton, Ont., who is advertising
an extensive auction sale. The time of an extensive auction sale. The time of
this sale has been changed from March this sale has been changed from March
25th to March 26 th, owing to another 25th to March 26 th, owing to another
sale near by falling on the former date. Readers will please remember that it is.
March 26th. The offering includes a very choice herd of Holsteins, at the head of which is Prince Calamity Schuil-
ing, one of the richest-bred bulls of the ing, one of the richest-bred bulls of the
breed. The cows have never been othi-
cially tested, but have records up to 12,500 pounds for three year-olds, and 9,500 for two-year-olds. Nine head o
grade Shorthorns, ready for the butcher grade Shorthorns, ready for the butcher,
are in the sale, ten horses and colts,
heavy dratt, Hackney and trottingbred heavy dratt, Hackney and trotting-bred
stock, Look up the advertisement in
another column, and plan to attend this another column, and plan to attend this
sale. Write Mr. Riddell, R. R. No. 3 , Granton, Ont., for further particulars. last call for bales bros.' holAt this late date, everyone interested will have written for and received a
catalogue, and will be conversant catalogee, and will ine conversant with
the splendid breeding and qualities of
the the Holsteins to be sold at the big dis-
persion sale of Bales Bros,, at Lansing, persion sale of Bales Bros., at at Lansing,
Ont., on Tuesday, March
ot reach the farm,
to

 is at the farm gate. Those coming from
the north will let off at the tame the north will get off at the same stop.
The sale will commence at 12.30 , sharp. The sale will conmence at 12.30 , sharp.
This will be one of the last
salstes
sales of the season. This sales of the season. This popular breed
oo dairy cattle are steandily increasing in
value, and everyyhing indicates value, and everything indicatesest that thei
value will continue to increase, and no
val
 coupled with the high-class merit of the
cattle offered at this sale, should be particularered at iterest this sale, should be of
of increasing their tormers thinking of increasing their herd of this breed
Be on hand early, as often the bigges
bargains are among the bargains are among the first sold. bigges

\section*{Important Auction Sale} EXTRA HIGH-CLASS

Holstein-Friesian Cattle THURSDAY, APRIL 9th, 1914

60 head including my two herd sires King Isabella Walker No. 8257, a bull whose three nearest officially tested dams, a sister of his dam and two
sisters of his sire, average 30.34 and his dam has a semi-official yearly record sisters of his sire, average 30.34 and his dam has a sem
of over 22,000 pounds of milk and 990 pounds butter.

The junior sire King McKinley Lyons No. 17729 has 7 nearest dams in the first four generations averaging 29.60 butter, his maternal gr. dam is the ters of the senior sire in this sale, 17 mature females with records from 16 . to 24 lbs., three-year-olds from 17 to 22.32 lbs., two-year-olds from 13 to 20 lbs . females are sired by such sires as King Segis, King Fayne Segis, Sir Aaggie
Beets Segis, Prince Hengerveld of the Pontiacs.
Every animal will be sold without reserve as the owner has no way of SALE WILL COMMENCE AT 1 p.m.

Col. B. V. Kelly, Auctioneer P. J. Salley, Proprietor
Syracuse, N.Y
Lachine Rapids, Que.

\section*{HOME-MIX YOUR FERTILIZER \\ ETTER FERTILIZER--LESS MONEY --NO USELESS FILLER} If you can mix Cement you can mix Fertilizer
1100 Bushels Potatoes per acre yearly, Guernsey, Channel Islands 350 Bushels, State Farm, Massachusetts, 1913

ON HOME-MIXED FERTILIZER
Write for FREE Booklets, Formulas, Full Directions NITRATE OF SODA, POTASH SALTS, ACID PHOSPHATES, NITRATE AGENCIES CO., bay and RIChmond sTS.,


Dehorn Your Cattle. We are in receipt of the following from
he Union Stock-yards of Toronto: "By a resolution of the Toronto Live-stock Exchange, passed over a year ago, a first of April next, docking all cattle wearing horns \(\$ 2\) per head. This, in a way, sounds unreasonable, but when it is considered that the slaughterers of
cattle from a quarter to half a million dollars on account of concealed bruises, the regu-
lation does not seem to bo such a hardship. However, a movement has been
on foot to possibly postpone the date this regulation is to come into effect, and soveral prominent buyers interviewed on this subject, express themselves as not
being desirous of worldng what might be being desirous of worklng what might be
considered a hardship on farmerg and drovers by this regulation. At the same time they point out the enormous losses which their houses have to stand, which
is traceable directly to horned cattle. However, there seems to be a fair opinemployed to prevent these bruises, that they would be agreeable to postpone this regulation. One idea suggested, and it seems good to us, is that the farmer or
drover procure a fine-teoth drover or mitre saw is good, and costs very little-and cut off the sharp tips on the horns before they leave the farm, and at least before they are mixed with strange cattie.
'frhis tipping is absolutely painless, edfily done, and prevents the beast from inficting pain upon his fellows. Only about one inch or an inch and a half on
the hard tip of the horn is sawed off, care being taken not to cut into the care being taken not to cut into the
quick, does not set the cattle back. It is clearly evident that if the Humane
Society would see some of the bruised carcases and torn hides on the cattle, they would in themselves enforce the
regulation throughout our fair Province to require handlers of lite stock to at least fix the animals in such a way that they could not damage each other.

\section*{Gossip.}

At the end of the fourth month in the third International Fgg-laying Contest,
conducted by the Department of Agriculture of the Province of British Columbia, a New Zealand pen of White Leghorns was leading with 419 eggs. Of the heavy breeds, a pen of White Wyandottes from
England, led with 879 egge.
At an auction sale of Aberdeen-Angus cattle at Newton, Iowa, February 11th,
from the herds of W. J. Miller, Newton, and J. H. Hilldreth, Saskatchewan, Canada, the Canadian oflering of 27 head,
made an average of \(\$ 180.87\), the bulls made an average of \(\$ 130.07\), the bulls and Remales averaging about the miller conslgnment averaged \(\$ 182\), the seven bulls averaging \(\$ 258.57\), owing
to Mr. Miller including his show bull, to Mr. Miller fncluding his show bull, Rose Gay 6th, which went to J. W. Mc-
Clung, of Nebraska, for \(\$ 1,000\). The highest price realized for

ENGLISH SHIRE HORSE SHOW. The thirty-fifth London Show of the
Shire Horse Society, was held the last whire in February of this year, the cata\begin{tabular}{l} 
logue numbering 719 entries, belng made \\
up of 369 stallions, 812 mares, and 88 \\
\hline
\end{tabular} up of 369 stallions, 812 mares, and 88
geldings. The Society's gold challenge geldings. The Society s gold chailenge went to Sir Walpole Greenwell's three-year-old, Champion's Goalkeeper, which was the sensation of last year through making the record price of \(\mathbf{4 , 1 0 0}\) guineas (approximately \(\$ 20,950\) ). Reserve was
F. E. Muntz's ten-year-old, Daneefield Stonewall. The champion mare was \(w\). \& H. Whitley's Lorne Doone, and the reserve, J. G. Williams' three-year-old, Snelston Lady.
At the auction sale of Shires, the same
week and place, there was a capital week and place, there was a capital de-
mand for the threo-year-old stallions, and mand for the thre-year-old stallions, and
for all the best of the older horses, the former with a range of price from 850 guineas down to 50 guineas, and an average for 34 of
est price for a three-year-old stallion was
850 850 guineas (about \$4,848), for L. Solo-
mons Norbury Coronation, by Norbury mons' Norb
Minestrel.


Sanitary Steel Pens

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Comfortable, Permaneat, Secire
THE best animals in the country 1 are stabled in LOUDEN pens, because the owners appreciate the convenience and protection secured, and the animals the comfort and fiedom so neces-
eary, when they are continully sthut up. Louden pene are constructed of the bets tubuler peec, and duxucted arerm proof


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HICKMAN \& SCRUBY

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 NOTICE TO HORSE IMPORTERS GERALD POWELL,
Comm, on Agent and Interpreter


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DR. BELL'S Vecernary modion Won FRE, Eo horemen who will jhe The wooder


\section*{SAVE-TLE-HORSE \\ }

THE TIME IS NOW
All the wiater long, the troubled owner of
 ments listems, takeo advice and hesitating FAIIS TO ACT-till the Springtime is Men himand his horse in not yet able to work. Meantime the thrity, prosperous, resolute man, reads, considers the evidence carefully ing in, asy, ten days to two weeks. That's eractly what happens every winter. We Originated the treatment of hornes by Money if Remedy Fails-and every minute of every day for Elighteen Vears our advice and treatmentehavebeen on the \(w\) ay wherever mails go and horses are. Our charges are
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ter and breeding; Fillies ppire-winners in oloal, also
stock bull, Crown Imperial 86997 , high class bull.
Rel ter and breeding; Fillies prize-winners in foal, also
stock bull, Crown Improial 86997 a high class bull.
GOODFELLOW BROL

Questions and Answers. Miscellaneous.

\author{
Disinfectants.
}
1. What is the best disinfectant to use spraying hen-houses, turkey - houses them of lice and all such vermin? 2. About how much muriatic acid should be put in the drioking watter for How old should they be before you give any, and at what rate should it be increased ?
3. Are books on diseases of poultry ent out from Guelph Experimental Farm for the asking ?
Ans.-1. A five-per-cent. solution of carbolic acid, or the same percentage of creolin, make good disinfectants for poultry-houses and all such buildings of which you speak. In the case of the
hen-coops, etc., you would have more hen-coops, etc., you would have more
lasting effect from a mixture of whitelesting effect from a mixture of whitewash, also containing a five-per-cent solution of the carbolic acid, which gives very good results. Burn sulphur in the hen-house after shutting up the doors and windows, the fumes, like those from the carbolic acid or creolin, find their way into the cracks and crevices where the vermin may be located.
2. One teaspoonful of muriatic acid to
a quart of water is generally given to a quart of water is generally given to
diseased fowls when it is administered. diseased fowls when it is administered.
It is not an established fact, however,
that muriatic acid is a remedy for blackthat muriatic acid is a remedy for black-
head in turkeys. If you find it intro-
duced into your flock, do not depend duced into your flock, do not depend
upon the muriatic acid alone to rid your
flock of the isolate the affected ones at once. Would not advise giving muriatic acid in the
water until some symptoms of the diaease appeared.
3. Builetins on diseases, such as tubercu-
losis, roup, etc., are sent charis, roup, etc., are sent out free of
charge by the College at Guelph, or by ment Buildings, Toronto, Ont.

\section*{Switcher and Kicker.}
broke in without any trouble, and she broke in without any trouble, and she
drove for a year all right. She seemed
nervous nervous, but gave no trouble. Now she
has started kicking, seemingly from no cause whatever, and kicks hitched eithe
single or double, and switches her tail Will you please give different ways of Ans.-Switching and kicking often go together in a high-spirited, mean-temto break these habits once they have de veloped in a young horse. vorrespondents to "'The Farmer's Ad nended different means of curing horses
of switching. A thick crupper is to prevent switching in some animals.
Wrap the ordinary leather it is four or five inches thick. Some ad vocate working the animal down in flesh ways practicable, and with a good horse thin, A switching crupper may be made this has a tendency to provoke more
kicking. An Oxford County horseman both switching and kicking by putting a straight bit in the animal's mouth, put-
ting on a long and strong pair of reins run through the rings on the back-band
and then he got behind the animal witt the whip, which was used only to keep
her going in the direction desired. The reins were then made to touch her tail,
and as she switched or kicked the driver and as she switched or kicked the driver
jerked the reins. This system was folwas finally subdued. of course, this where the animal was a vicious switcher work your horse in a good, strong harAnyone having ideas on preventing 'The Farmer's Advocate."' As a genera thing, quie
practiced.

\section*{No More Sore Shoulders}

You want a sweat pad Mr. Farmer, that will not only give you
superior wearing qualities, but one suparior wearing qualitities, but one
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woollen fabric which is porous and absolutely non-poisonous (acting on perspiration as a blotter on ink) thus keeping the horse's shoulders dry and well at all times. VENTIPLEX pads can be cleansed \(w\)
qualities are unequalled.
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\section*{LIME}
on your soll. The soll must be sweet to produce good crops. Where sorrel, horse tall, mosp, etce, sen
Dear, the soil is sour, and you licannot expect the maximum yield of hay, cereai or fruit without
 to has more than doubled the yield. We furnish bue litmus paper free with directions for
your soil. Write us for further information. Agents wanted. Caledonia Marl Branch Percheron, Clydesdale and Shire Stallions, Mares and Filliee Belgian, Hackney and French Coach Stallions We have a better bunch of stallions and mares in our barna at present than ever before, andiate
tn a positiou to sell cheaper than any other man in the business. We raise our own feed, do oup
own buying and selling No own buying and selling. No commisgion agents to share profits with. We have nice, bile, duylits
blacks and arevg lith



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 sRegdivg * CLYDESDALES-STALLIONS AND FILLIES


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 STALLIONS \&
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\& CLISESDALES PRIZE-WINNERS \& Thor this season's trade we have Clyde Stallions and Fillies that were up to champlow-
 TOPPERS IN CLYDESDALES AND PERGHERONS
 or stallions you ever sam. \({ }^{\text {Th}}\). bolton, ontario
Cydesdales \& Shires if yreu want Stallions, Fillies or Foals of the beboves and home-bred of the most fashionable strain. See end seecet from the large stock now offered.
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sarcil 19,1914
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MR. P. S. RIDDELL, R. R. No. 3, Granton, Ontario THURSDAY, MARCH 26th, 1914 STOCK AND IMPLEMENTS Including a small but choire herd of Holsteins, numbering 10 females and 3 males,
5 mature cows, 2 heifers, rising 2 years, 3 heifer calves, 2 bull calves herd bull, Prince Calamity Schuiling is sised by bogan Prince Schuiling, the champion Holstein bull, stud winner of the \(\$ 500\) Special for the best animal of the breed at Canadian National (1911), his dam, Calamity Posch Wayne 3rd, was champion cow at the Dairy Test at. Guelph, over all breeds, in Dec., 1913. These cows have
never been officially tested, but have made private records of \(12,500-\mathrm{lbs}\) for 3 -yearolds and 9,500 for two-year-olds. The calves and yearlings are by Buffalo Houwtie Vale De Kol, whose dam made an official record of \(16,820-1\)-bs. milk and nearly 700
lbs. butter. Most of the cows are bred to present bull. Four high grade Holstein. lbs. butter. Most of the cows are bred to present bull. Four high grade Holstein
cows, fresh and to freshen. Nine head of grade shorthorns rising two years, ready cows, rresh and to freshen. Thine head of grade shorthorns rising two years, ready
for butcher, good ones. There are 10 horses and colts, including heavy draft, Stork. Usual stock of farm implements, Terms-A., sums of \(\$ 10\) and under cash; over that amount 8 months' credit on furnishing aporoved joint notes, or \(4 \%\) of for cash in lieu of notes.
Three mules south-west of Granton and 8 miles west of St. Marys.
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JOSEPH WHITE, Auctioneer, St. Marys, Ont.


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Ages from one year old to six years old.
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A choice lot of Stalliong and Mares are in our stables at the present time. They are the big sind, SMITH \& RICHARDSON

Columbus P. 0.
Myrtle, C.P.R.; Brooklln, G.T.R.; Ochawa, C.N.R.

Questions and Answers. Veterinaty.

Wire Cut.
knee and fetlock joint.
jore
There is is an enlargement, and a scar upon which the
hair has not grown. Ans,-The hair cannot be reproduced. The enlargement may be reduced some by
rubbing well once daily with a liniment made of 4 drams each of lodine and iodide of potassium, and 4 ounces each
of alcohol and glycerine of alco

Enlargement on Legs.
1. Mare has a hard swelling towards the front of the inside of fetlock joint. she is not lame. The swelling decreasis
some on exercise, but reappears during
2. Mare was kicked on cannon bone, and as a result there is a swelling as
hard as bone. I
have blistered both ot hard as bone. I have blisterod both or
these cases repeatedly without results.
Ans.-1. Get a liniment made of 4 drams each of iodine and iodide of potassium, and 4 ounces each of alcohol and
glycerine. Rub a little well into the enlargement once daily. Have patience,
and persevere with the treatment and persevere with the treatment, and
you will succeed in reducing the enlargeYou will succeed in reducing the enlarge-
ment considerably, but do not expect quick results.
2. It is almost impossible to remove
this.
The same treatment as for No. may have some effect.

\section*{Gossip.}

The big importation of Percheron stalTisdale, of Beaverton, Ont., that created so much interest and made such a oeveop ing victory at the leading shows last fall because of their high -class quality underpinning draft character, and true snappy action, when seen by and true, ative of this paper a few days ago wen many points advanced in growth were finish over finish over their condition last fall when
they won so many honors. Although many that were shown at Toronto in September last have been sold, not all the ahow-ring quality nor all the winners have gone, and among the two stallions
rising four years, and the three stallions rising four years, and the three stallions
rising three years, are Toronto and London winners, with quality enough to suit
the most exacting critics.
Blacks and grays, big, thick horses, with clean, flat frm are in a position to supply. Percheron stallions and fillies and Clydesdale fillies that will be money-makers and business - bringers for their purchasers. Let them know your wants, and they will

\section*{Book Review.}
boy book farmin
The Farmer's Advocate" once suggested to a well-known author the possibilities of a story for farm boys which would give expression to the new spirit wisch, in so many quarters, is now
awakening agriculture in Canada.
The Idea was not then worked out, but in "Joe, the Book Farmer," making good on the land, Garrard Harris has woven a tale that will be popular with youths who like going yarns of the Henty type.
The scene is laid in the Southern States, where farming has been more
"run down at the heels" than almost anywhere else. Through the an almost tion of a town merchant, Joe; a 14 -year-
old bov, was put in charge of four acres of his shiftless father's s land, and' by up-to-date methods he worked wonders, and
became the champion corn grower. became the champlon corn grower.
Nearly everything turns to gold with him, and the book is further enlivened with 'possum-, deer-, and bear-hunting
adventures, and some "."white-trash" and negro dalect, by way of variety, sand-
wiched in with Department wiched in with Department of Agricul-
ture directions on the subject of nitrogen, potash, and phosphoric acid. The magic with which Joo succeeds in everything is rather over-done. The book is well printed, and comes from the good old
publighing house of Harper' publishing house of Harper's, New York.


Make Your Lame Horse Sound, Like This


A denorlben all, And with tho book we gour hor bebl younai axperth diagnoils of or ramenesi mark to ploturo or howeidis the gat, how long animan hao beon lime SDo aboiutoly Euarante日, Maok'y now Mhorouphph, sprung Ryine, Rying boin
 bollerain wo have deposited Ono Triousand
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in the barn, You can't proven Spavin, Ringbone, splint, or orcurbfrom
patting your horse hin the barn but you canngevout these tranbles from keepping
horses in the bara very loug. You caiget KENDALL'S

SPAVIN CURE - at anydruggistat 81 a bottie, 6 for 86 , and Kendail's will cure. Thousands of farmers
and hosemen will gay goo our book
"Treatise on the horse" free.
 5 Yearling Clydesdale Stallions in Young Holateln Bulla, 1 Stallion (impp) got by King Fayne Segis Clothilde, a grandson of S5 bs, butter in 7 days. (world's record, and
other sires dams in Ro. milking up to 81 liss.
per day, and 16.000 lbs. in in months. Write, or per day, and \(16,000 \mathrm{lbbs}\), in 11 months,
better come and see them (a few Ponies). R.R. No. 4, Port Perry Ontario, on G.T.R.
Myrtle C.P.R. R. M. HOLTBY

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good enough individually, and by breeding, to head
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from 13 and useful bulls for
immediate sale. monhs. Inspection onvited. \begin{tabular}{l} 
O'NEIL BROS., \(\quad\) R.R. No. 2, Denfield, Ont. \\
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P. Adress R.R. No. 1. Clandebove, Ont. THE MANOR SHORTHORNS AND LINCOLNS

 Shorthorns Thout Greet wonderwin oumbera abot to head. Herirfand and oulto of the Shorthorns and Swine -have


Questions and Answers Miscellaneous

\section*{Leaky Chimneys.} Thave a chimney that leaks badly There is a fluid that runs down the side of the chimney which seems to come to
the bottom of the chimney and leak through the bricks. I use an airtight stove, and burn dry beech wood that has
been cut two years. Can you tell me been cut two years. Can you tremedy
the cause of this trouble; also remedy Would plastering chimney on the outside do any good to keep it from leaking?

Ans.-One probable source of the trouble is the lack of air in the stove. You
are distilling the wood rather than burning it, and creosote and other producta will be formed which undergo condensa trickle back in this fuid which you speak of. Allow more air to enter the front
of the stove, so that the wood may
undergo complete oxidation. It wil
 the difficulty, one correspondent explains is to get a "sleeve pipe" and place it
just above the length with the damper in it. Keep the sleeve open when onc
the fire burns up well fhe ire burns up well. It it a aver or and an excellent ventilator. The
fuel strong draught through the hole in th
sleeve prevents the smoke condensing. sieeve preve's Property Interests.
Wint 1. Married man becomes insane. After
being pronounced so by physician, wifo procures deed of farm. Is document o a. Party returns from asylum apparently better. Can he claim property?
3. For several years said party is a tively employed acquiring considerable property. Pays for board whenever
wife's home. wite home. In event or death (leaving
no will), can wile come into possession
ot 4. Should wile take possession of sa
property and pay part of debts contract pod by atoresaid party? Is she responsi-
ele for all debts incurred? ble for all debtr incurred ENQUIRER.
Ontario. Ans.-1. It is, unless, and until, se \(\begin{aligned} & \text { 2. Yes; he can bring an action, if } \\ & \text { necessary, by way of asserting such }\end{aligned}\)
and claim.
3
3. She would be entitled to take out neters of administration to the estate,
and, besides having the right to administer it upon such letters being granted
her by the Surrogate Court, she would her
have a share of the property.
4. Not beyond the amount of the

Wood Ashes as Fertilizer. 1. What value as a fertilizer
ashes sown with spring grain? 2. How many pounds per acre should
be sown on clay-loam soil which is in in medium condition?
3. Would fitteen-per-cent. coal ashes in wood ashes do any harm to the land?
4. What is the address of the Department of Patents for Ontario and Quebec? Ans. -1 . Wood ashes are such a vari-
able quantity that it is hard to advise their use. If you buy them for a rea-
sonable figure they are a good fertilizer but the potash and phosphoric acid which never know just what they are worth. Leached ashes are, of course, little use part from the lime which they contain.
Hardwood ashes will not contain much
 potash worth 5c. a pound and phosphoric acid worth the same, it would
bring the value of a ton of ashes ap to about 87 , counting in the lime which they contain. This is for the very best
kind, and the only intelligent way to buy hardwood ashes is under wa 2. Sied analysis. application of ashes. the wood ashes would do no particular danage Address Patents Branch, Parliament
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more practical than tryingt remember them; shows what to chat and

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cows bred to good bull|l. We also have 3 three-year-ld Clydesdale fillies., two
year-old fillies and 2 yearling stallions. Five of them out of L Lrdd Charming stallions. Five of them out of Lord Charming
ddress: JAMES BOWMAN, Elm Park, Guelph.

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 sexres and dams. James Douglas, Caledonia, Ontario
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HOCK OR BURSITIS

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will remove them and leave no blemishes.
Reduces any puff or swelling. Does not blister or remove the hair, and horse can be ABSORBINE JR And. For Boils, Bruises, old Sores, Swellings, Varicose
Veine, Varcositics. Allays Pain. Price \(\$ 1\) and \(\$ 2\) a botle at drupeis.s or delivered. Will tell more if you write.
W.F. YOUNG. P.D.F. 258 Lymans Bldg., Montreal, Can.

\section*{SHORTHORNS}
yearling Colyde stallion, 1 weanling Clyde
tallion, big, best quality and breeding. John Clancy,
Manager. \(\quad \begin{gathered}\text { Cargill } \\ \text { Cargill }\end{gathered}\) GLENGOW
SHORTHORNS
Still have a few choice bull calves, and
eeveral real nice heifers of different ages. WM. SMITH, Columbus, Ont. 5 SHORTHORN BULLS
 Spring Valley Shorthorns

 Woodholme Shorthorns
 others a 10 month's. out out imp. sire and dam, a
berd header of the right kind. Write me your wants G. M. Forsyth, North Claremont, Ont. "OAKLAND " SHORTHORNS
 John Elder \(\&\) Dual porpose a specialty \(\begin{gathered}\text { Hensall, Ontario } \\ \text { Hen }\end{gathered}\)



THE FARMER'S ADVOCATE
Questions and Answers.
Hair Comes Out.
I have a driver, and every summer the
hair near the roots or his tail come
out. It will be out for some time, but grows in again in the fall. S. Sugges
remedy. worms they sometimes scratch their wails You do not mention whether there is any
itchiness or not. Dissolve one dram corand rub a little well into the of water once daily. It will be necessary to part the is a preventive application. As a hair restorative, take one-hall pint raw linseed
oil, one-half pint coal oil, and four table spoonfuls of sulphur. Mix and rub in

\section*{Sweet Clover.}

Kindly let me know whether you know anything about growing sweet clover would you sow it, with grain, like other clover, or by itself? Where could
obtain the seed, and how much is it oustin the seed, end how muca is it alfalfa for the purpose of feeding stock
Wm Linton said in his letter that it is beter, but I would like the opinions oo other readers of "The Farmer's Advo
cate."
W. A. R.
Ans.-S Sweet clover is a biennial plan
which has been considered for many y year by some as a weed. It is not very diffl-
cuite to destroy in cultivated fields, but once it gains a foothold in permanent
pastures, some difificulty may be experienced in ridding the soil of it. If it it
cut before it seeds it will give hittle trouble. For a pasture or hay crop
sow it in the spring with a nurse crop about twenty pounds per acre. The seed
may be obtained from seedsmen advertis-

\section*{Land Plaster}

What do you think of sowing land If so, what time of year would you sow it ? What quantity per acre? ? is it
it
tetter on clover or spring grain? Where can one get same, and what price per Ans.-Land plaster is not an economical after in land plaster, and you would
anve to apply about 340 pounds of land that you would in 100 pounds of lime nary unslaked lime. In addition to this in as good a form for the soil and plants as it is in other forms of tortilizers, or
in the pure lime ltself. If it is the lime which your soil requires, you can better
provide it by buying the unslaked or slaked found to half a ton every four or
dred pound
to early spring, so it will become incorpor Paralysis
\(\qquad\) health; eats well, but a little thin. We usual, on Monday night about 5 o'clock,
and she was all right. Came in and ate
\(\qquad\)
\(\qquad\)
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\(\qquad\)
\(\qquad\)
pounds ginger. Follow up with two-dran
of ginger. xppect
mone.
op pay,
por harry smith

100


\section*{The Bull Is Strong--But} "Ideal" Fence is Stronger
 TREAL" FENCE is made of ALL NO. 9 HARD STEEL, EVEN


 owe wisis to yourserir beiore buying any fence



The IIctiregor Banwell Fence CO., Limited, Walkerville, Out.

\section*{Springhurst Shorthorns}

\section*{,} Increasing; now is the time to strengthen your herd. I have over a dozen heifers,
from 10 months to 2 years of agee for sale; every, one of them a show heifer, and some of them very chice., Bred in my great prize-winning straing

HAY P.O.
exeter station

\section*{Shorthorns \& Clydesdales
} Burlington Junctign, G. T. R. Bell 'Phone. NS
A PLENTY", I have a mide range for eolection in Shorthora bulla and hellown it and douch topped, beef bred and boef type MARKDALE, ONTARIO SHOR THORNS IN OUR HERD
 BURLINGTON, ONT.

Shorthorns



Shorthorn Bulls, Cows \& Heifers

Maple Grange Shorthorns


R. MOORE, Manager.


Questions and Answers. Miscellaneous.

Boundary Trees-Wireless Would A be allowed to cut trees on a line? They are on A at the present if the fence were straight the the trees would come on \(B\).
2. Could yon tell me where to write Telegraph Company of Canada?
Ontario.
Ans.-1. No. State, Ottawa.

Payment for Board.
We had a music teacher who went He stopped country giving music lessons. He stopped at our place for dinner, then had supper and breakifast; also his horse fed. Now he wants his money for his
teaching, but does not want to allow anything for board. Can we collect pay made about him stopping no agreement Ans.-It is altogether likely the music
teacher can collect full pay for teaching and if nothing was said about board and lodging, and you had invited him to
stay, in all prob had stay, in all probability you cannot col-
lect pay for same. However, it would
-seem out of should allow something for accommodaConsideration.
Treating Lumber.
The timber and flooring over cellar in
basement barn has rotted from becoming damp and then drying out, and will have
to be renewed. 1. Will creosote preserve new timber,
which I intend to put in?
2. What kinds of wood are most satisANTIN factory to treat-pine, cedar, soft elm,
hemlock, or tamarack ?
3. Would dry or gree to treat? dry or green timber be bes
4. Could matched, tongued and grooved
flooring be laid atter being treated ?
5. How much creosote fooring be laid after being treated?
5. How much creosote would it require
to treat 800 feet of flooring

\section*{pieces of \(8 \times 8\) in. \(\times 12 \mathrm{ft}\).?
6. How is creosote to be applied, by
soaking in trough, or with \(a\) brus \\ }



maple, red oak, alm, red and sugar
treated to advantage, others, are pay to treat such woods as cedar, locus
and oak, which are AIIERICAN SEPARATOR CO. BAMBEXIDEE, wo


Flemind's Lump Jaw








\footnotetext{
HAY \& STRAW
All kinds bought outright or hand-
led on commission. Write at once stating grade, quality, quantity and
when you could make shipment.
}


Raise The Little Chicks


Pratts, \(\begin{gathered}\text { Baby Chick } \\ \text { Food }\end{gathered}\)



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of Canada, Limited of Canada, Limited
TORONTO





 GEO. H. MONTGOMERY, Proprietor
Dominion Express Bldg., Montreal.



 James benning. williamstown p.



MARCH 19, 1914

\section*{IDEAL STOGK FOOD}

Hill aidy give you rood reants.





IDEAL POULTRY FOOD
Mill ker your fowit hallthy, it does not have
 tit meaning. Manufacturectat
92 JOHN STRET намптол

ONTARIO


\section*{frilly, 7 day butter record \\ \(25 \cdot 20 \mathrm{lbs}\)} Seauty Pietertie
Lilian Walker
Pat Ruby Walker Pietertifie Segis Walker Pietertic Buttercup Clothilde Pietertje Mary Wan Walker Pietertj
These are the Ch
HOLSTEIN HERD
Buy a son of King Segis Walker from
daughters of Pontiac Korndyke and get connected with this family
A. A. FAREWELL, Oshawa, Ont
w
 Maple Grove Holsteins the great King Lyoun Hewgerveld, who la
Hend
Hend
Houbt the richeat butter and milk bred Mhith ebreed in Canada. These bulls are out ot freahened. If you want the beat write me for EOLLERT, R.R. No. 1, Tavistock, Ont.

\section*{Woodbine Holsteins}


Stations. \& SONS, R.R. No. 2, Paris,On
The Maples Holstein Herd
 Grord of Meritce Aagrie Mechthilde and Iro - No. 5. WLLURN RIVERRS, Incernoll. Ontario Holsteins, Young herd headers. Just now


THE FARMER'S ARVOCATE
Questions and Answers. Miscellaneous.

Overdue Taxes by-law to odd 5 per cent. on all tax bills were 860 I I sent cheque on My taxes
of December, or three days late 18 th
collect do so or five per cent. pay three dollar ontario.

Hens Lame
cause of laying hens and pullets think the lame. They are on boarded floor, with of grit, and are being fed dry plenty morning and night, with mash at noon
Have Mave also given them meat lately on
account of feather-eating. Severely been lame, and then got severall rave right, but
have some pullets now that cont \begin{tabular}{c} 
stand. \\
Ans.-Your hens may be suffering from \\
C. B. \\
\hline
\end{tabular} rheumatism due to a damp pen, o
tuberculosis may have caused the ness. Give them free range; keep the
pen clean free from drent as dry as you can. If it is tuberculosis and you should perform a post-mortem
examination upon one of the badly fected birds, you would likely find the
liver and mesenteries showing

\section*{Raising Pigs.}
young sows have pigs about September
you think I will be able to get \(\$ 8\) per pair for them at six weeks old next fall?
What is the caus boar losing the use of his hind legs? Ans.-We do not make a practice o
estimating what the price of any class of farm stock or farm prodice is going to this satisfactorily, our columns would de full of such information. You know
your own conditions best, and if you are in a position to properly care for the
number of sows and their litters, it more than likely that you will make good returns from the raising of pigs. low price for hogs, but, of course, de mand and supply may change somewhat. The boar is likely crippled with rheuma-
tism, or perhaps has been injured in some manner.

Alfalfa in Low Land.
1 want to seed down ten acres of field, black-ash bottom, well drained; no water lying on whatever. This field has
been cropped with all kinds of grain for \(t\) wenty years, and never had any manure still the grain lodges. Now, some of the neighbors think alfa:ia wont do on it get below the drains, so I would like your advice. I have two other fields one on each side of the above-mentioned
but they are uneven. The hollows are drained, but the higher parts are yellow in color, and very poor. I intend in them with red clover to plow down corn and roots Or do you think alfalp would do well on them as they are? would like to sow barley as a nurse
crop, and that would not do on the poor land. Is it well to sow allalfa as soon as the land is dry enough, or is that too
yourlv ? early ?
Ans.-As a general thing, alfalfa does not do extra well on low, flat land, and
we would hesitate before trying it too extensively on soil of the nature of your
ten-acre field. ten-acre field. It would be better to try
it on a small portion of the field and it on a small portion or he it comes out. The hagher, roll-
see how it
ing land which has the water basins drained, would possibly be better for this
crop. However, you state it is poor. If you did not care to sow the field to early in July after a rain. It might do to this tine and then seed it. We would
advise having the seed inoculated in any grown alfa fa on the farm previously
Try it on a small scale at first. If the Try it on a small scale at irst. smallor,
crop is a failure the loss will be
and if it is successful you will have the and if it is successful you will have

\section*{Feed Your Stock on \\ PURE CANE MÓLASSES}

> EPERIENCED stock feeders know the value of Cane Molasses in toning up the stok and finishing fattening animals. It is extremely palatabe and much relished by cattle, pigs and horses. By its its sweet taste, great palatability and high nutrient content, it is very valuable to mix with other feeds, especially at this season, when the last stages of finishing fattening animals have been reached and when other feed may be growing scarce. Put pup in barrels containing about six hundred pounds, also half barrels. Dominion Sugar Company, Limited Wallaceburg, Ontario

\section*{Complete Dispersion of 65 Holsteins}

BALES BROS., OF LANSING P. O., ONTARIO sold their larm on Yonge Street, will, without reesrve, on Tuesday, March 24th, 1914 Sell by auction their entire herd of 65 head of richly-bred, high-producing heifers, from calves up to two years of age, are daughters of the famous and intensive bred bull, Sir Lyons Hengerveld Segis, whose five nearest dams have records averaging 27.51 lbs.; his dam and sire's dam over 30 Hbs . for 7
days, 126.52 lbs. for 30 days, and an average butter-fat test \(3.98 \%\). He a days, 126.52 lbs . for 30 days, and an average butter-fat test \(3.98 \%\). He a
son of the greatest producing sire of the breed, King Segis. The females of son of the greatest producing sire of the breed, King Segis. The females of
breeding age will all be in calf to this bull. The bulls range in age up to 2

J. H. PRENTIGE, 10 months. 13.000 records: \(\mathbf{1 3 , 5 3 9} \mathrm{lbs}\). in n average for the mature cows on ordinary feed of 60 lbs . per day. A big, highTerms: Cash, or 8 months' with \(6 \%\). For catalogue write:
J. C. BALES,

LANSING P. O., ONT.
SALE AT 12.30 SHARP.
Stop 33, on the Metropolitan Electric Road, is at the gate.
Sale of the Horses, Farm Implements, Etc., Wednesday, April Ist.

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Offers for sale: A son of Rag Apple Korndyke 8th out of a daughter 0 pontiac Korndyke with a record of 29 lbs . Calf in nearly ready for servic Write me for description and breeding.
E. H. DOLLAR,

HRUVELTON, N. Y. (near Prescott, Ont)
LAKEVIEW HOLSTEINS
Senior herd bull-CCount Hengerveld Fayne De Kol, a son of Piecertic Hengervelde Coup
De Kol and Grace Fayne 2nd
Junior herd buil DDutchland Colathe
St

E.F.OSLER, \({ }^{\text {E }}\), HOLSTEIN GATTLE
The only two world record Holsteins in Canada are owned by us. There are only three cows in the
World that have made over thirty pounds butter, three years in succession, one of them is owned by

D. G. Flatt \& Son Long Dietance 'Phone R.R. No. 2, Hamilton

HOLSTENS-I can supply a limited number of high producing official backing. Let me know your wants
W. E. THOMPSON, R.R. No. 7. Woodstock. Ont. L.-D. PPhone. UOTN FOR SALE-Male or female. Herd sire, Prince Hengerveld of the Pontiacs, son of King of the "Hamilton Farms" :: St. Catharines, Ont
 tested daughters. Several imported cows and B. H. Bull\&Son, Brampton, Ont.
bulls for sale. Canada's Greatest Jervey Herd

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Fertilizer you should use and tho
 The will be sREEMAN CO., Led.
Tho W. A. FREEMAN CO.
IAMILTON, ONTARIO.

\section*{RAW FURS}

 Emait rexion wala mipmas

HALIMAN FUR CO., Tomemo



Alloway Lodge Stock Farm Aberdeen Angus Cattle Southdown Shee
Collie Dogs
Alew helfers and young cows in calif to the Chicago dring herd bull, for sale as well as some very
trong young bulls. Four very promising puppies
from imported stock are alo offerer OBT. McEWEN, Byron, Ont., Near London OXFORD DOWN SHEEP We have the champlon Orford Flock of America. Con, Winnipegg Regina, Brandon and Saskaton
Fuirn \({ }^{\text {Present }}\) offering: 100 ram and ewe lambs, Faira. Present offering: 100 ram and ewe lambe. Peter Arkell \& Sons, Teeswater, Ont. CATTLE AND SHEEP LABELS
\(\qquad\)

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Pe
le
le Cattle

 ter rate. Circular and sample mailed free. For Sale \({ }^{- \text {Two Scotch Collie bitch pups }}\) four month old from good workR.R. No. 1. CONRAD SCHMID

MAPLE LEAF BERKSHIRES for sale at reasonable prices, boars
fit for service, also young pigs ready

awence. Woodstock, Ont.R.R.a
Yorkshire Sows \(\begin{gathered}\text { For chice Yole, foursire } \\ \text { cor }\end{gathered}\) Gtock, weight about 300-tbs.
GEO. D. FLETCHER, R.R. No 2., Erin, Ont.
Erin Sta., C.P.R.

\section*{TAMWORTHS}

Yorkshire Sows \(\begin{gathered}\text { For Soice Sorkshire } \\ \text { chows, bred; show } \\ \text { sol }\end{gathered}\)

TAMWORTHS \({ }^{- \text {Some chaice young }}\) sows, bred, for Aprit
particulars. JOHN W. ToDD
R. R. No. 1 Corinth, Ontario
Ciloverdale Large English Berkshires
No matter what your needs in Berkshires may be No matter what your needs in Berkshires may be
peepare the ive Berkshire man to
erepared to furnish anything in Berkshires.


TAMWORTH SOWS
ine well-grown powng sows cight months old,
some bred for sule at reas, nable prices.
M. MchalluM

Questions and Answers. Miscellaneous.

\section*{Imported Horses.}

Can an American-bred Clydesdale stal-
lion be brought into Canada and be billed to travel as an imported horse?
Ans.-A stallion which is brought into this country from any other country can
correctly be termed imported, although the word "imported" is generally inter-
preted by the casual reader to mean as preted by the casual- reader to mean
coming from the home of the breed.

Oats, Fruits and Fertilizer. 1. Which is the better oat for sandy soil,
2. The names of best peaches, pears, plums and grapes, for home use. 3. What would be a good fertilizer for
corn on gravelly loam, rather poor ? corn on gravelly loam, rather poor W. H. Ans.-Both of these two varieties are
excellent yielders. We are not in a posi-
tion to state which would do the better tion to state which would do the better
on your soil. It is more than likely that there would be very little difference
in yield. Taking all things into con-
sideration, while the Siberian may slightly outyield the Banner, the latter variety is preferred by many.
John, Fitzgerald, we would advise St. Elberta; pears, Bartlett, Anjoury a lew you might try Burbank, Reine, Claude Lombard; and grapes, Niagara (white),
Lindley and Agawam (red). Concord Warden (black)
3. A very g
3. A very good fertilizer for corn on
a sandy soil would be 120 pounds a sandy soil would be 120 pounds
nitrate of soda; 340 pounds of phosphate, and 140 pounds muriate potash.

Pasturing Hogs.
We |purpose sowing some kind of a crop
for pasturing hogs this comırg season
for pasturing hogs this comirg season,
and were thinking of sowing rape in
drills and the the plot in the center
pasturing first one half and then the
1. Would you suggest any kind of crop than rape?
soon in the spring well when sowed as worked, as when sowed later on, or wil
it do nearly as well ? 3. How much land would it require to feed 35 hogs, of different ages, through
the season?
4. How much seed per acre should
5. Would it be likely to give good re sults all summer under ordinary conditer than rape, would you kindly describe method of cultivation, etc.? pea to the size of a quarter on a pure
bred Tamworth pir digqulily hill winning in the show-ring ?

Ans.-1. We know of no crop which
would give better satisfaction for a iog pasture than rape. You might inprove
upon the system, however, by shwing perhaps a small part of your plot !
peas and oats, and pasturing this off be 2. Rape will not likely do quite well if sown too early in the spring.
The general season of sowing is around about the end of May or early in June.
3. According to the amount of feed given, and pasture properly handled,
rom two to four acres should be enough. used, a great deal of other feed is given grown and finished with pasture as as 4. If the rape is sown in drills, on
and a half pounds and a half pounds to the acre is suffi-
cient; if broadcasted, four to five pound per acre. If peas and oats are sown,
sow about a bushel of each, or possibly
a little make the best hog pasture.
5. Yes, if properly handled. Only the ordinary spring cultivatio
necessary in preparing land for a cerea worths regarding color reads : "Golden
red hair on a flash-cor

\section*{International Harvester} Cream Separators.

(111)

International Harvester Company of Canada, Led


We are paying high prices for

\title{
RATS \\ hip now to get best results. \\ E. T. CARTER \& C0. 84 Front Street East TORONTO
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 have been bred to choice imp. rams. One crop of lambs should nearly pay for them at prices asked
Also some good ewe lambs at a low price.
JOHN MILLER, Brougham, Ont. NEWGASTLE TAMWORTHS, SHORTHORNS AND CLLYDESDALES Present offerings: boars and sows all ages. Sows bred, boars ready for service chuck
full of imported blood and show ring qualit; I I hink the best 1 ever bred, also younger
ones of both sexes. A few nice bult ones of both sexes. A few nice bulls 4 to 8 months old. Heifers carrying their first
calves and others with calves at foot, of splendid milking strains. Two or three nice
fillies and


Berkshires \(\begin{aligned} & \text { From our prize-winning herd of large English Berkshires wo } \\ & \text { have a particularly choice offering in young baors and som som } \\ & \text { many of them now }\end{aligned}\) S. DOLSON \& SON - Norval Station, Ont.



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 1. ELMHURST LARGE ENGLISH BERKSHIRES

4.

Gramandyne Yorkatres \& Tamportho Morriston Shorthorna and Tamporthi



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Hampshire Swine chid hevo al Duroc Jersey Swine
 You and give you description and pricesear fom
J. H. Rutherford, Box 62, Calledon East, Ont.
grow fat m milk. feed them oan your ar. This is
ng, durable which make which make
anced bowl eel spindles, open, san! separators.
will tell you cream sepa-
s so well to
to ge
ults.
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vTO
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Breugham, \\
Br \\
Bron mile \\
\hline
\end{tabular} DESDLLES dieconck
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 Station, Ont.



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The World's Greatest Workshoe"

 More Comfortablo Dilirymem
 Free Ten-Day Try-on Offer No man or bot thoold thins of burling ANY


 An Alsolute Necessity to Outdoor Men

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GOOD JOBS

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R An wpotate High Grade

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 Cuy your suppies from us a
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TO SON

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In you inten to build or remodel your bara this coming year, now the the ume

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Iearn about the 17 gecial patent feature fin my SUPERROR EqUIPMENT, found GEO. P. MAUDE, Fergue, Ontario

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\hline REDUCED SETTLERS' FARES (ONE- WAY SECOND CLASS) \\
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Sethers and familee without IVvo atock \\

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\end{tabular} \\ GRAND TRUNK RAILWAY Homeseekers Excursions}

Manitoba, Alberta, Saskatchewan Sach Tuesday, March 3rd to October Winnipes and Return - - \(\$ 35.00\) Winnipeg and Return - - \(\$ 35.0\) From Toronto and stations morth and weest

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Toronto, Ont.

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Fill in the dimensions of the barn you are going to build. Cut out this illustration and mail it to us. We will quote you

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have no equals for barn building. You know the main points to consider when building a barn :

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The "Eastlake" is made of the best obtainable
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Any intelligent person can cover a roof with "Eastlake" Shingles

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MOUR HOME ... ARE THEY "METALLIC?```


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