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## SARNIA POUUTRYY FHNCE



A PPEARANCE tive is often decep-tive-and no one can tell how much service a tire will give by looking at it.
In buying tires you must rely almost entirely on the integrity who produces them. You can depend abso lutely on Partridge Tire Decause the fo
they mats
Bus a Real Pouftry Fence
1 . demand for a heavier wilght poilury tone thas.




 CRRMA POLLTRY FENHE
soasily oonstracted, requiros loss posts. You don't need a top o

 armersall over Canada testiry to 1ts value. It is the is prontery ng the home table supplied while the boys were "over there, in your sarnia Fenoe will do its part. Will you do ours? rry is a business, and that sarnia Poultry Fence is
necoessary to your sucoess. ropalid. send for out rom factory to farm. frelght armirinoling, gates, hawn fencinp and supplies. Pre opild


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 N -
panme To Increase Farm Profits Vancouver,


> Save on repairs by keeping every building
> RAMSAY'S PAINTS
> A. RAMSAY \& SON COVIPANY MONTREAL
-)
TIRES

Game as Their Name my



Getting Acquainted With Editor "The Faryerr's Ad
EDITOR "TBE FARBER's ADrocate"
Just a word from an interested I of "Nature's Diary", about the weater the downy woolpeck kers and nut nutatche of on the farm during the winter.
A small stick athout six feet lon Auet-filled boox ther size of a goon boit bithafastened on top of it, was placed solididy
in a sow.-ank



 and the birds' manner of clinging coinhify
one chickadee cance that we noted bith
 Like most people of our acquaintance,
we hadn't known that the "downies" varied so widely in color and in individua?
specimens. But there were at specirs of the woodpeckers at that two
paimo wore
almost black all over, excepting for the wing-bars, which were a light ashy. The
breasts were almost ber breasts were almost black, and the backs
a very dark ashy. The red caps male was quite as vivid in hue as that worn by the downies of the clearly-
defined black-and-white type shown pictures. They are all amusingly careful eaters, clinging so closely to the box that
the soft breast feathers catch and hold saiely any suet-crumbs that drop and sacen any suet-crumbs that drop, and
often we saw the birds making sure of these bits. We learned to distinguish a number of them apart. from the fact that
in some birds the white spots on the shoulder were almost a continuous bar,
and in others were clearly defned rows of spots. That the hox was seldom without a visitor, and often had two feeding at once, while a third clung to the post
waiting a chance, showed that numbers had found it. Several times four nut-
hatches were there at the same time, and their peculiar upside-down way of working is very amusing. They seemed fond of Alying away with a lump to some nearby tree, hut the woodpeckers became so tame away from them without disturbing the feasters, and several times I walked past
the stick, within a foot of it without the stick, within a foot of it without
making the little fellow, then eating, fyy making the little fellow, then eating, fly
away, though he "hid" on the other side and kept a bright eye on the intruder for
The nuthatches have been gone for some weeks, but the downies are still patronizing the box, though not in such numbers as formerly, and they are more
busy in the orchard. An examination of some quinces and lilacs, where they spend a lot of time, showed the advantage of coaxing those birds all winter. Last summer we noted an unusual number of Cecropia larvae in the lilacs but after
destroying a few we thought no more about them for, though destructive
enough, they are seldom in large enough numbers anywhere to be a menace.
However, this month, March, I have However, this month, March, I have
already found 21 Cerconia cocoons in a already found 21 Cerconia cocoons in a
short row of lilacs and one in a cherry tree, which is rather surprising and sug. gests that it will be wise to watch for larvae this year. Fortunately the birds
had found and cmptied all but five that were under snow-level and completely
covered with old leaves and twigs blown in and matted by fall winds and winter snows, so that the woodpeckers couldn't
see them. This seems valuable work, since a hungry Cecropia worm can
denude a lilac branch of its leaves in short order, and doubtless doesn't confine its attention to lilacs and other ornamental
shrubs. shrubs. The result of our observations is that
we are thoroughly convinced that no further winter will find us without a box or two near the windows, and a store of
suet ready for tainly no one has yet found a more easy way of combining prohit and enterabo of
ment for the farmer and gardener who all people, should umderstand and value
the birds. A well-known clerguman, called to other duties, says a witer in the Western Christian Advocate, preached his last
sermon before the intallation of his sermon before the in-tallation of his
successor. The local weekly paper, in successor. The local weekly paper, in
announcing the order of services, gave
it as follows: "Sermon by the Keverend Blan

## uainted Witl

 BirdsUER'S ADPOCATE": an interested reader ; about the work of he winter.
six leet long with a of a good big bone it was placed solidy ut three feet from one
rlv in the vinter on ot popular winter, and t, and gave a splendid wood veckers and
geod view of coloring ner of clinging. Oinly id visits when $n$, but
or our acquaintance, hat the "downies" color and in individual
cre were at least two dipeckers that were ere a light ashy. The Hack, and the backs The red caps on th nies of the clearly white type shown in all amusingly careful
losely to the box that thers catch and hald umbs that drop, and birds making sure rned to distinguish a white spots tact tha ost a continuous bar clearly defined rows or was seldom with. ird clung to reeding showed that number eral times four nut--down way of workin luey seemed fond ckers became noarby da door not four feet it hout disturbing th - imes I walked past llow, then eating, fly on the other side have been gone fo doumh not are stil and they are mor and they are more of An exanation of cs, where they spend s all winter an winter. La the lilacs but after e thought no more
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dom in large enoll to be a menace.
th March I have erconia cocoons in a and one in a cherry : surprising and suly ortunately the birds ied all but five that vel and completel res and twigs blow "oodpeckers couldn' vodpeckers couldn
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an, called to F in the Western reached his last
tallation of his celly paper, in
secrices, gave rend Blank rend Blank
$t$ Length'."


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## dairy farmer's

 savings bankThe Ideal Green Feed Silo provides the ideal way of saving the summer's green, succulent feed for use during the winter months. It increases the productive capacity of the farm at least $10 \%$, and often much more. It enables the cows to give $25 \%$ more milk than if they were fed on a dry feed ration.

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## Certified Seed Potatoes.

 (Experimenta! Farms Note). have passerl two inspections mande b inspectors of the Division of Botany,Experimental Farms Branch Experimental Farns Branch, Department
of Agriculture. These inspection made (1) of the growing plantsections aring the
blossoming blossoming period, and (2) at the time been placed in storage. or after they hat consideration in determiety is given diue
of a crop to certife clains object of this worrtitcation, the prime the absence and
incidentally, the control particularly of constitutional of diseases
such have proven to be responsibice , for for serious reduction in esponsibie tor
parts of the country Ain in man possibility of distinguishing the presen of these ciseases lies in the inspection of
the growing plants, it is obvious that in freedom from, Leaf Roll or Mo of, of any crop, inspection must of neacesitity
commence in the cormmence in the growing season and
preferably during the blossoming perid as it is at this time a matter of small of variety. Thus the twany impurity attained. field of potatoes, the inspector hands the grower a record showing the exad be found to measure up to the reouired standard, the grower is again visited, at
or after harvest time and an inspection made of the tubers to ascertain to what extent, if any, diseases such as Common should this final insepction prove satis No. 1 or No. 2 Grade Seed Potatoes, and sufficient number of tags to coverer the necessary for the shipping of the amount of potatoes inspected, are issued by the contents of the bags or orther containess grown by the person attached, have bee on the tags; that they have been inspectec af arriculture and Dominion Departmen igorous and free from serious diseases, them being classed as No. 1 (or No. 2 ) On the other hand, if a field fails in the mequininspectiond owing to the presence of a larger percentage of diseases or
impure varicties than is allowed, it is given no. further consideration; the grower being advised to change his sed
and to procure for this change, sed and to procure tor this change, semk
tuler inspection.
This work is being carried on at present Chiefly in Northern Ontario, in parts of
New Brunswick Quebec, Nova Sotie and Prince Edward Island. It is proving of value to the grower in that it frequently ring by the use of diseased seed, and is also a means of putting him in touch be advisabie to obtain a supply of "Certi"
fied Sced Potatoce" as outlined above.

Editor "The Farmer's Advocate" I hope, others find "The Farner's past fifteen years. I owe most of my
sulceess in farmine to it. As so many of your subscribers say, it certainly
worth more than twice its price. The Christmas. Number was the best I har $\underset{\substack{\text { ever secen. } \\ \text { Halton Co., (Ont. Wis. J. Tavion. } \\ \hline}}{ }$

Jazz.-Mr. Hopper (rising fromin table) Flopper?",
Miss Filopper. What wasn't the or-
chestra starting up one of the waiters Chestra starting up onc of the waite
just dropt a triy of disilics."

It was a Xew lingland parson who

Seed Potatoes. nta! Farms Note).
pplied to potatose $w i$ inspectionatoes which Divisions made by S Branch of Botany, These inspecpartment owe inspections are d, and (2) at the time g., or after they time rage. determining is given due ertitication, the clainm
ork is the absence anied control of diseand ooll and Manal diseases be responsible, whict in yields in many tinguishing As the manyy lies in the ing prectione of the obresence of in in Roll or Mosaic in e growing season and ine a massoming period der of mall tnguish any impurity
the on of the inspection of a the inspector hands to
cord showing the erat crop. Should the exatrd wer is to the required time and again visited, at ime and an inspection
rs to ascertain to wh etc sch as Common insepction prove satist oes are graded as either
de Seed Potatoos of tags to cover the shipping of the amount ags are issued by the ags or other contatines attached, have bern
whose name appears Domine been inspected Dominion Department
found to be suffcienty from serious diseases tign varieties towarrat
d as No. (or No. 2) es, if a field fails in the owing to the presence entage of diseases or 1 to change his seed grower whose stock 1 carried on at present Quebec, Nova Scotia
IIsland. It is provin ver in that it frequently f diseased seed and is putting him in touch
from whom it would n a supply of "Certi-
s outlined above.

R's Advocate' "The Farmer's
I have for the we most of my it certainly is
its price. The
$\qquad$

Where Butter Profits are Made or Lost you, as a dairy farmer, know better than we can tell butter profits are made or lost. Right there you have the big fundamental reason why we spent over $a$ milion dollars in bringing the bowl of the EMPIRE, BALTIC to its present state of perfection. Years of
constant study and experiment on the part of the best centrifugal engineers of America stand back of the EMPIRE BALTIC-the Separator with the Million Dollar Bowl,
We solved the problem of self-centering and selfbalancing by the unique method in which the bowl rests on the flange of the spindle instead of on the top of it-it adjuats itself-it is free from vibration, the milk after it has been separated
 You will find it on the $\begin{array}{ll}\text { machinery - EMPIRE. } & \text { above-the-ord:nary separa- } \\ \text { You will find it on the } \\ \text { EMP PlRE.BALTIC } & \text { tor-the rope-reck bearing } \\ \text { dealer's store. } & \text { absorbs all shocks and } \\ \text { wear and ters -the ratchet }\end{array}$
 wear and ters -the ratchet coupling av vids "the jerk in turning" - the great simplicity of "he driving arrangements means easier simple as it is effcient, and so on.
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built, easy to operate


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 and not one of them their owners. TEN of these calves wrighed one thousand pounds or ove ted and not one of them over a year old
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OTTRNA


The Cow's Adopted Child


[^1]
# The Farmer's Advocate  PERSEVERE SUCCEED Home Magazine 

## LONDON, ONTARIO, MAY 13, 1920.

## EDITORIAL.

Some towns and cities still persist in saving daylight while they already have twice-as much as they make pood weof.

Some crop that can be utilized for summer feeding Some heome a necessity where a reasonable amount flive stock is maintained.

Probably the maximum amount of fodder at the minimum experience of labor can be produced from a corn crop. Corn should be emphasized more than it is.

Immigration is going on with renewed vigor. • While e need more people we cannot afford to make Canada a little Europe. Only the best type of prospective citizens should be admitted.

A committee met in Ottawa last week to discuss ways and means of reducing disease in Canadian live stock. This is a matter in which producer and consumer alike should be interested. Tuberculosis is a terrible sceurge that must be combatted and on the basis of health and human lives the effort is worth while.

There is a great deal of talk about the fact that farmers are not getting the cost of production. The fairess of these arguments altogether depends upon What farmers are under consideration. If some farmers were paid according to what it cost them to produce milk, they would have to get twice the highest price milk has ever sold for in Canada. Such a man does not deserve to be protected to the extent of his cost of production. The dairyman who regards milk production as a bueiness proposition and tries to be as efficient s possible deserves a price that will encourage him to progress still further, but the sluggard deserves little sympathy.

The results of the farm management survey of 329 farms in the Counties of Dufferin, Peel and Wellington for the year ending April 30, 1919, indicate that the average farm of 152 acres possessed 124 tillable acres, carried 90 acres in crop, involved a capital investment of $\$ 13,000$, of which about $\$ 4,500$ was unproductive in that it was invested in buildings and machinery, and returned a labor income of $\$ 937$. Each man cared for 47 acres of crop, and each horse did the work on 20 acres of crop. In view of the fact that farming now is recognized to be very much more profitable than in the days prior to the war, one is led to wonder what the labor incomes of these farms were in those days.

The special report of G. T. Clarkson to the Ontario Government regarding the Hydro Electric Power Comjustify the Government in according a full measure of support to the Commission in its efforts to develop and utilize the power resources of this Province." The report calls attention, however, to certain conditions which should be thoroughly recognized. It is pointed out that the present debt of Ontario is about $\$ 100,-$ sented by Hydro sented by Hydro enterprises, a further $\$ 65,000,000$ is andemplation for the future. In view of these large commitments and the present finance conditions, the
report suggests that possibly it would be better if report suggests that possibly it would be better if
the Legislature had more direct control of the finances of the Commission. This would seem a good principle to follow if our politicians could keep from playing politics and spend a little more time looking after the interests of the people they represent. Almost any cabinet council or commission would make as much progress as would Howard Ferguson and Hartley Dewart in an argument.

## The Much Abused Potato

Townspeople have been riding in their expensive imousines, of late, to indignation meetings where the lowly, though necessary, potato has been the subject of discussion. Potatoes have been cussed, discussed, abused, boycotted, and otherwise handled in a disrespectful manner. Even in the Legislature of Ontario some members representing urban ridings have, in an effort to stand in well with their constituents, thrown taunts at the farmet for accepting so much for a bag of potatoes. After all is said and done, potatoes at six dollars a bag are not so much more expensive than the other necessaries of life that urban people are obliged to purchase, and there is a great deal more value in a bag of potatoes at six dollars than there is in many of the unnecessary commodities which urban people purchase and pay for without a whimper. It is simply a case where the law of supply and demand has operated to raise the price of potatoes, for on the other side of the line buyers have been willing and anxious to take all the potatoes the producers, of this country can send them. In such a case the boycott is as futile as are the words used in condemning farmers for accepting the price the market offers.

It usually happens through a series of years that a scarcity of potatoes one season will encourage a heavy production the next, and the producers then are obliged to accept much less than they expected. The high price for potatoes this spring is no index to what they will be worth next fall or next winter, and farmers would be well advised not to attempt anything extraordinary in the way of large acreages of this crop. There are certain districts where potatoes are extensively grown, and there are individuals who specialize on this tuber It is a business proposition with them and they will govern themselves accordingly, but there have been many instances in the past where farmers unaccustomed to producing potatoes have rushed in and have been sorry for it

Our Live Stock Needs Good Blood.
Canada's live stock would be greatly benefitted by the introduction of new and good blood. We would emphasize" good blood," because much that is "new", now coming to our shore, is brought as a comme herds enterprise instead or in the spirit and flocks. The importing bus mate and useful to the country, and posibler and file of breeders are not yet suffeien . to make the importation of extra good blo paying proposition. We must live down that lack of apprecia tion of good breeding, and nothing would help to greater extent to increase our appraisal of high-class live stock than more of it. We need more stallions like Craigie Masterpiece, and more bulls like Millhills Comet even if our Government-Provincial and Do minion-must take a hand in obtaining them.

The swine industry is greatly in need of new, strong The swine industry There has been so much close and improved blood. Thmorths, Chester Whites, breeding Borkires, in the swine breeding districts of and even that it is getting more and more difficult to eanain really high-class breeding stock, especially boars. . New blood, even if it is nood, for it would afford breeders no matings more heir liking. However, there is an opportunity improve upon the quantity and quality of bone in pure-bred breeding hogs, should be strengthened. IVe have always brought in good sheep with which leplenish and improve our flocks. This should 0 replenish and very best sheep that can be obtained the Old Country are none too good to bring over. d bulls and female cattle are being imported fom Great Britain and the United States, but it is just
possible that a great stimulus could be given to cattle breeding in this country by the introduction of more outstanding bulls. The Governments-Provincial and Dominion-might well give this matter some consideration, and upon their best breeding herds introduce some really high-class sires, even if they are obliged to pay $\$ 25,000$ apiece. Two or three hundred thousand dollars expended on high-class breeding stock in Canada would be returned fivefold inside of ten years, and, if the Governments use discretion in the selection of this breeding stock and the matings made therewith, it would be the best investment made in a long time. Canada is approaching a stage in her development where she must compete on the open market with other cattle-producing countries, and we should look at it as a cattle-producing countries, and we sor a stiff contest.

Good blood is no more important in any class of live stock than in horses. One glance at a horse is sufficient to tell one what his breeding is. We need more big, strong, good-quality, draft horses, and to stock this-country with the right kind of breeding mares and stallions there should be plenty of opportunity afforded to mate the really good mares we have with horses better than themselves.
We have good foundation stock in Canada, but to build a thriving, prosperous, live-stock industry on this foundation we must continue to bring in better and still better sires.

## Speed Fiends on Country Roads.

Canada like practically all other countries, has gone motor mad. Life has been speeded up, and in the great haste to keep up with the times the speed limit is too often exceeded, precautions are not taken, and fatalities result. Perhaps ninety per cent., or over, of automobile drivers are careful in operating a car and considerate of others, but there is a small percentage so reckless that the great majority of automobile drivers are en dangered, while the pedestrian lives in constant fear We herd laws and other regulations enacted for the , of safeguarding the public, but autoists must purpose go 1 thelling in nature's way, or consideration to Many autoists conform with in a horse-dre lime corner in the regulations while offees these same drivers see towns and cities but when they open the throttle and country road ahead of there away they go regardless of law or consequence. Thint is too much reckless, dare-devil dre roads. We have road laws and they should be enforced in country as well as city.

## When Will Prices Fall?

The markets of the world are in a strange condition the present time. Prices have reached a level that they have never reached before. Wages are abnormally high, and there is a disposition on the part People working people to keep one eye on the clock. People everywhere are complaining loudly about the high cost of living, but it is worth observing that extravagance and improvidence are marked characterics eren majority of the people of this country at the pres time. People are demanding luxuries of one kind or another. They seem to be able to find the money to buy them, and they are not concerned about the future. bur cities are orecrowded-filled, apparently, with urefree, extravagant and pleasure-loving people, who carefree, exa day taking no thought of the morrow. live from day The conditions whis explanation of the high cost of to-day are a plausibe luxury, for the producers lood, clothing and one man's guess regardof Canada are in the minore setty nearly as good ing the future trend of prices is that diminishing as another's, but it seems evidies and luxuries are not army of producers of necessities and luxuries are not

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the leading agricultural journal in the

## Published weekly by THE WILLIAM WELD COMPA

JOHN WELD, Manager
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nected with this paper should be addressed as below, and not
tony individual connected with the paper. ABBRESS THE FARMER'S ADVOCATE, or
$\qquad$
able to increase their output very much under existing conditions. Unless the consumers of this country producers themselves, the demands for all kinds of necessities and luxuries is going to remain greater than the supply, and high prices will continue.

## ,lain, almost universally, about their inability to obtain

 aw material. Labor is perhaps largely responsible hat plants will be obliged to slow down or shepect in hus thre will be obliged to slow down or shut down narket. This labor may le absorbed as it is released and an equilibrium maintained but it is possible to see from much of this extravagant artificiality. Such an event would e might be better for it lecause prices would seek a easonable leve, this great uncertainty would be dis-Nature's Diary.

There are few flowers which are more conspicuous our spring woods than the Trilliums. The I Large



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$\qquad$
handsome species which is common in the Maritime Provinces and eastern Quebec, and is found in some localities in Ontario. In this species the petals are narrow and white with a crimson $V$. T
fruit of this species ripens in September
fruit of this species ripens in September.
Ne Noding Trom ar as my experience goes, rather local in its distribution. The flower-stalk of this species is recurved so that the rather small white flower is almost hidden beneath the eaves.
On the flowers of the Large White Trillium, Canada Violet, White-hearts and other white blossoms one
often finds, when he examines the flowers closely little white spider. This is one of the Crab Spiders, Misumena vatia, a species which spins no web but which ives on flowers, preving on the insects which come to isit them. It takes up its stand at the centre of the like two pairs of forceps on each side of the centre and in this position it waits motionless. When an insect comes to the flower in search of nectar or pollen, the spider brings its front pairs of legs together like a trap,
thus seizing the insect, and then pierces it with its


Fig. 1.-White Trillium. Fig. 2.-Star Flowcr.
chelicerx (poison-claws). The larger specimens of this species even seize such powerful and well-defended insects as bumblebees, though as a rule I fancy they usually refrain from attacking such dangerous insects,
and prey on long-tongued fies which are common visitors to flow
While this species is white, with two pale chocolate stripes on the sides, when it is on white flowers in the spring, it is interesting to find that it turns yellow when been found that an individual takes ten days to change from white to yellow.
s the Star Fltte flower which is common in our woods horizontal creeping, Trientalis americana. The long, thin stem which terminates in this species sends up a nine thin, light green, shiny, sharp-pointed leaves, and threatlike stalks, each bearing leaves there arise two shaped flower, with six or seven a fragile, white, starstamens are long and delicate with tiny golden anthers

ellow Adder's Tongue.


$\qquad$

## A Visit From the Drover

had just by Sandy fraser.
the barn, the ither day, whe morning chores aroond but John McDonald, the drover. There isn't alang aroond these parts wad ken him by that isn't mony McDonalds are that plentiful in Glengarry the for the all ye have to do, as a rule, to find oot wharry that aboot is to ask him his first name find oot who ony man

But this McDonald
boot, has three names, as ye might, that I was speakin' wi' us to keep one name in the family. It's the custom tae anither, especially if the namis frae one generation was the name that had descended to a guid one, and John fae his grandfather descended to my friend, the drover, short, and when his son was born him "Johnny" for all the neighbors could dae to distinguish them John, call the young chap "Johnny-John." Sae, in the coosto and inherited the family drover cam' intae the warld him "Johnny-Johnny-John," as mattery juist carlled And "'Johnny-Johnny-John", it is to this day course. Iew o' his acquaintances to ken or care whether hera Weel, when Jougal, or juist some common man Weel, when Johnny-Johnny-John had shaken havin' for the last week or so he weather we'd been says he; "It's a fire farm ye have here, Mr Fr and Juist for all the warld like a machine-agent will be taserk." when he calls in to try an' sell ye a binder or a mowing t has helped to doesn't cost onything and, na doot, always noticed that when a stranger ale. Onyway, I've and starts in by takin' notice ' 0 ' the ime the hoose aboot the place and overlookin' its shortcomings hell be askin 'ye to sign some kind o' an order, or note, befor Johnny-
oticed a piece o' road I had lookin' aroond till he oot tae the high-way. "It's a guid job ye, veae the barm says he. "If it's a fair question noo, what did that co." aething," I replied; having done the wark pare times, and gettin' the gravel frae a friend for the
sake o' auld times. "Weel", says Johnny sake o auld times. "Weel", says Johnny-Johnny-John, e onything fat tae sell the day?"' ook a look at the pigs, or onything he before Johnny iilkin'-machine and the ither results had to see the wi' the agents that hae been callin' aroond for dealin's
twenty year, or mair. "It's Johnny was makin' an examination o," says I, as engine, "'what people can do, noo-a-days wi' all theirine, rent ions." "Aye," replied he, "Dae ye ken, Mr Frase T'm thinkin' that if Solomon , was alive noo he'd be "But man, I'm tellin' ye,", Johnny went on, "it times, When ye get change for a quarter it soon , these
tips I had a couple o' pigs in the stable that wad weigh
aboot two hundred an' tae see them. "What wifty apiece. I took Johnily They're no' bad lumps,"' says Johnny turnin' the gin they'd mak" the two "I shouldna be surprised Could ye bring, them tae the station next Monday the Lord willin', and the weather permittin ${ }^{\prime}$; or on When Johnny had looked aroond a while langer and passed his opinion' on the coos an' the calves I says to dinner. Ye were oot early, na doot." "I was that," he replied. "Be it west or east the hoose is an unco After we sat in tae the table Johnny says; "What ye minds me o' the way the auld folks used to talk. When 1 was a wee chap it was 'Johnny, rin west to pump an
b, ring a pail o' water,' or, Johnny, gang east to the barn an' feed the calves.' They never left ye in toot on the
directions. And last night I was sittin' the larber-shop doon toon, alang wit some ither fellows waitin' their turn, when Tommy Angus came in, an
says he to me, 'wad ye mind sitt in' says he to me, 'wad ye mind sitt in' a bit west, Johnny,
till I set doon.' It reminds me o' till I set doon.' It reminds me o' auld Donald McQueen,
when he was in his last sickness. The doctor left some medicine for him, but his wife couldna get him to tak' it.
When the doctor came again he went for auld Donald, askin' him how he thought he could get better gin he
didna tak' his medicine. 'Better or worse doctor', says McDonald, 'I tried my best an' it wouldna gang wast in spite o' me.' He was lying east an' west on the allow his medicine." the way he took to say he couldna "Weel," I said, thinkin' to keep Johnny goin', these auld expressions are gettin' tae be a thing o',
he past, I'm afraid. Ye dinna hear them sae often
oo-a-lays." "Na," replied Johnny, "It's like what I heard my Id mither say once. We were gett in' a new meenister says she ,they was Scotch or
orning chores aroond r. There isn't alang r . There isn't mony
by that name, for the Glengarry that aboot oot who ony man i

## t say. It's the peeak

ily frae one geneste s a guid one, and Joh my friend, the drover and "Johnny" ff tinguish them was to can' intae the coorse verybody juist-calle matter $\mathrm{o}^{\prime}$ course it care whether he's John had shake ke weather we'd bee e looked aroond and e-agent wr. Fraser." be talkin' binder or a mowing. sthing and, na doot, r comes tae the hoose s the improvements kin aroond till h velled, frae the barn ob ye've done there," Ig done the wark at
frae a friend for the ohnny -Johnny-John but before Johnny
g , he had to see the g, he had to see the
ults $o^{\prime}$ my dealin's aroond for dealin' past on o,' says I, as on o' my gasoline, e ken, Mr. Fraser, hink ye want, these able that wad weigh e. I took John
weigh?" says Ina be surprised ion next Monday, a while langer and - an' have a bite $0^{\prime}$ hoose is an unc ny says; "What ye tae the hoose re-
sed to talk. When west to pump an' t ye in doot o' the n' on a bench in ngus came in, an' Dit west, Johnny
Donald McQueen, get him to tak' it $t$ for auld Donald,
get better gin he
wouldna gang
an' west on the
say he couldna
Johnny goin tae be a thing 0
them sae ofter at I heard my new meenister nt inued Johnny I wing those I will gin I'm

THE HORSE
How to Handle the Bad Horse
While it is a fact that most draft and work hors are very tractable and easily handled, yet there are times when the it becomes necessary to restrain them. In restraining the horse ind and to enable the attendan safety to the necessary duty, whatever it may he to perform the necals must he restrained to preven in other caring themselves. There are many specia them ind
methots and appliances for restraining the horse, hut for our purposes farm or in any stable. No method o restraint should be used methods of restraint that produce pain animal be employed as little as possible.
showhere are three methods of rest raint in common use the use of an implement producing pain, thus occupyin the animal's attene of mechanical means to render the is caused; the ile, and the use of anaest hetics which
animal immohile, animal the animal unconscious. The rerst two only
render the concern us, and various methods are ir use. In fa too many instancessary. It should be the policy of the are not really no to use such means just as little as possible There is a very noticeable difference in men's abilit to handle animals during a variety of circumstances and under a wide range of conditions. The horse is a creature of memory and quite often a firm hold of the reins and a stern command from the ates manv instances. is needed in a geat Twitch-This is the most common
and the most widely used methor of restraining the horse. It is very successful, and the ease and rapidit with which it can re used in douht accounts for it
being universally adopted $b$; horse nen the world over


Horses Should Be Watered Frequently During Warm Weather
due to the reasons Just
small rope or and latigo leather, tied so as to Ether loks. The dore not injure the and horses' upper lip; to this there is a handle fitted for are easily and quickly used. twisting this loop after it has been put into the proper $\begin{gathered}\text { Squeeze or Crowding - } \\ \text { shorses }\end{gathered}$ position. This handle can be of any material just so shoulders are often very hard thande, a be controlled
it accomplishes the desired result. IUsually it is a short
liability to injury it is necessary that they it accomplishes the desired results. Usually it is a short liability to injury is is desired to treat them in the piece of woor, say from 12 to 24 inches long, that has a in some
snall hole in one end just large enough for the rope
stable, we know of no better way than to secure a long to pass through. The rope is placed through this hole pole and crowding the ancmal to one sack or to any strong fixture.
and then fastened to form the loop.
fasten the end to the hay rate The loop should be placed around the wrist of the pressing it against the animal quite snd it can be crowde: horse with the right hand, if he is working alone; but if up very close, y against ho site to mimum and he has an assistant he permits him to hold the animal; reduces the danger frome horse. The front of the pole nose a case his right hand is placed across the animal's should
nose to steady the head. With the left hand grasp the should be fastened at a height of the shoulders and
she upper lip; relcase the hold of the right hand and slip the rear end upon a level with the stifle jint should be right hand gras eft hand and over the tip, tightening securelv tied with a strong halter. it up by twisting it It is best to make twiches small If the pole is not suitable and the tarn ars should for up by twisting it. It is best to make twiches mina too large the operator is quite likely happen to have a very strong gate that opens hoss
to injure the aninst the fence, it is often possible stand the horse
 where for any cann also be used upon the car in casis
nose. In not desired to use it on the necessary and then never apply enough force to iniut of time it shoult le removed often or it may protu
an injury to the an injury to the parts, and it will prevent the amimal are instrumeme and Polley Bridle -These like the tut
control of mean thrture, and are much used in

should be 25 or 30 feet long and about $\frac{3}{8}$ or ${ }^{1}$ anch in

## ill these methords that are easiest and permit of the

 iece of $3 / 8$ sinch rope about 25 or 30 feet long ond these muality. To meed. This a pope should he streng and of goondbridle take the rope and
ansten the pulley on one end and then pass the loase end arough the pulley until a loop about the diame he loop in the animal's mouth as you would a bridlest on the side of the head below the ear or any other ocation down to slightly below th he head, for then, when traction is applied the top of effectual method of holding a mean or visious hors habit of breaking loose while being led.
The simplest way is to loop the rope about the principle. neck and fasten by tying just as snug as possib wimant he loose with the moventents of the neck. Then take around the neck until the loop resulting is about 12 to 15 inches in diameter; place this loop in the animal's
mouth the same as a bit and draw taut. There are not many horses but what can be controlled by either of hese devices. Neither of the

Taking up the Fore I - This may be done in one of holding up either of the front fcet, while it is looped once fround the fore arm; the long end is then passed arount the buckle and drawn quite snug. Another metho is by taking a long rope and passing over the horse's
back and arount the body (thus making about $11 / 2$ turns about the body) and by fastening the loose end o then pelling it upanst the body by traction an then pulling it up against the body by traction on the
end of the rope on the opDosite side of the body; rope

Better a good steer than a poor,bull. Use the knife plain or metiocr alves. If there is danger of pasture being short, sow a few The undocked ewe is not a sign of good shepherding, ack all the lambs when ten days to two weeks of age Selling the best animals will never enable a breede oo bring his herd to the highest rank. One canno
sell the best and continue to breed the best stock in the country. Heavy milkers are seldom developed by allowing the calves to run with the cows. The palle cealen though hey do not look so sleek.
Feeding too heavy grain is one cause of growing
pigs crippling. Too much corn in the ration of the growing pig confined to the pen tends to
unless used by a carefu! experienced feeder.

The amount of flesh an animal carries makes a big difference in aprearance. A plain individual when
thin oftentimes looks attractive when in flesh. It doesn't pay to allow an animal to get very thin even when feed is high priced.

At time of writing there are a dot ongh there is hut scant picking. This grood for neither steck or pasture. Better to wait a week longer and give the grass a chance than have short grass a
summer through injulicious pasturing in early spring. Cut an opening in the corner of the farrowing pen
large enough for the pigs up oo weaning time. The
exercise the pigs ebtain rumning throush the stable or out into the yard wi'l help develop, health, bone and is surperising how much they will drinl:
beeders with sloping mangers to the passage have
frequently bern annoyed by the stock pushing the feed out. (, C. Burt of Wellington County overcomes the
difficulty bi having a wire stretched tightly from difnculty by having a wire stretched tightly from one inches from the wall of the manger and prevents the American breeders are opening a market for thei arplus breeding stock in the Argentine. Wm. Hartnett hr expent hen the that great meat producing untry. Brecterc in that far off land are very particular as to breed type, quality, finish and breeding, ensequently it is some of the best individuals from the herds that have bicen pickerd for export, As the Old hoice lorceding stocls so Ameriva, inclueling Canada, is ast developing stoc

Irish Dairy Shortherne
$\qquad$ on ral disorder, afficting Ireland for mont hs past it is an the bilk must go on as the staple business of the country 600 gallons ser year instead of the present average of 400 allons. Their efforts to promote the milking Shout horn en stmuater by sales in England archy as on of over $£ 100$ earh for 50 head while pure-bred hull rom dams of that type always command fancy figures ations hell at Cork it was resslvel
…

## LIVE STOCK

## Does the bull you purchased this spring come up to

 The first six montis of   $\square$
regard To collect, verify and publish information
regan regaran County Committees of Agriciulture and Agriculturai
 matters pertaining to cow testing. 4. To encourase the general adoption of systematic
mik-recording and the formation of $C$. $C$.testing tic sociations. 5o To. do all such things as may be considered
advisable by the Society to encouraye the breering advisable by the Society to encourage the breeding
of deep-mikiking dairy Shorthorn catte in the South of Ireland, and to promote the interests of owners and
breeders $\underset{\substack{\text { breeders. } \\ \text { Middlesex Co } \\ \text { Co }}}{ }$

Infectious Ophthalmia in Cattle. Infectious ophthalmia (infammation of the eye) in
cattle is present in in all scasons, appearing here and
 disease developing as an epizootic and attacking many
animals in an area of greeter or less extent. An a track of the disease does not render an animal immune for any considerable time, but it is seldom that an animal
suffers the second time the same season. The disease is suffers the second time the same season. The disease is
no doubt caused by a specific virus, but the exaact

 ineoved, mut in severe cases the
tures become diseased as a sequel.
Stricmptoms. - The symptoms are usually character istic, hence a diagnosis is usually easy. In the early
stages the evelids become slightly swollen and partiall stages the eyelids become slightly swollen and partially
losed there is a copious fow of tears over the cheeks from the inner corner of the eye. In many cases both eeves are affected, but in some cases only, one whio wh in
other cases one eye may suffer from a mild attack and other cases one eye may suffer rom a mild attack and
 ceptible. While sheep apparently suffer from an atiminial
or the same disease, horses, mules, asse, dops and cat or the same disease, horses, tules, ases, dogs and cars
appara to be immune. Later the tears. become mixed appear to be immune. Later the tears become mixed
with mucous and pus, and athere to the hair of th lace. The appetite is usually more or lless in imairel.
according to the severity of the attack. The hair over the body becomes somewhat dry and rough. Thirst is usually somewhat excessive, and the animal drinks fre
quently if allowed free access to water of moderate temperature. The temperature is more or less in-
creased, in some cases reaching 103 to 105 degres Fahrenhieit, and the patient loses flesh and becomes saunt in proportion to the distress experienced
In mild casse, especiall when treatment be
Ihe mall cases, especialy when treatment be given in fact all the saymptoms are only moderate and recocery is ranid. In severe cases the animal evidently suffers
acutely. All symptoms are well markedd the eye or eves present a whitish appearance over a graater or less scum over the eye", but this whitith s.tbstanec is on or
external, the color is due to a deposit of lymph between exteral, the color is due to a deposit of lymph bet ween
the layers of the cornea the outer covering of the eyeouls coat). In severe cases it is not unusual for a
 becomes more localized, usually near the centre or the
eyeball, the parts becone reddened in collor, due to



 twelve davs; in severe cases it may be from one to three
months before inflammation subsides, and there may or mav not be complete recovery, An attack may
terminate in complete recovery (called resolution); opacity of the cornea or lens: and there may he escape
of the humors of the eyelall and consequent collapse of the sac, or an ulcer that refuses to heal may remain on Treatment. Non-infected animals should he re-
moved to healthy quarters. The infected should be kept in comfortable, partially-rlarkened quarters. It
is gool practice to give carh a milld laxative of one to
grains sulphate of zinc, twenty, drops of fluid extract


THE FARMER'S ADVOCATE

## Dipping the Sheep

With the average fock owner dipping is not a genera practice, although it is to the advantage of every sheep owner that he dip his fock reguarly wide avear, no If the sheep are infested with vermin a first-class quality wool cannot be obtained, and the best of care and feed will not make up for the ravages of these pests. It is impossible to get gains where vermin is allowed to run While every from may not he adante-1 to the reising sheep, yet more might be kept than are. The flocks should be given the attention which will enable them to make the maximum returns. Dipping is one practice which will help increase the revenue from the flock. Fortunately, our flocks are comparatively free from
skin diseases, such as scab; therefore, dipping is chiefly skin diseases, such as scab; therefore, dipping is chiefly
necessary to destroy the tick, which is universally




Fashions in British Pigs.
How long it will hast nid
where it will end den
knoweth wot, end, deponent
remarkable the there is
on in the British world of pirm breabeders battle goingen the noment the large black pig is rionabie breeds At the of popularity, but its position is heing challenneed by the Berkshire, the Gloucester Spotted pig, and the Midde White breed. The outcome of this struygle for breed supremacy is that the prices now being paid for pits have
soared to the heights of those given for Shorthom even in the period known as "the golden age" of that breed-when breeders in Canada, U. S. A. and at thome
sought to buy their Booth and Bates cattle tome sought to buy their Booth and Bates cattle at figures
which drew a derisive yet clever and oft quoted poem from Punch.
At the moment $£ 600$ and $£ 700$ are being paid for
boars and gilts; herds are being sold at ang per over $£ 100$ per head; gilts in any number make 5220 : doars ancestry are retailed at $£ 100, \dot{6} 90$ and $£ 80$, where aferr
years ago they were difficult to dispose of pound note. A vendor who placed a number a fiveboars in a sale some years ago was asking for a moderate average, if not a very ordinary sale return. Today, he has not to near that result, for with the establishment for boars of different family lines to enable them conduct their breeding operations without the them to too close inbreeding. At the time of writing 700 guinas is the outstanding price, paid on April 15th at Mr. Terah F. Hooley s saie at Dry Drayton, Cambridge on April 25, 1919, and the winner of first prize for the best single pig of its breed at the Smithfield Club Show last winter and also champion pig of the show agains
all breeds. She scaled 3 cwts .2 grs. 15 lbs at 7 months,
knowir as a body pest of the wooled class of stock. The necessary investment for dipping the flock need not be
large. Where only a few sheep are kent they may be dipped in a tub, but where the flock runs to twenty or tank. The accompanving illustratio a regular cipping feat of the structure, and dimensions are from 8 to 9 2 feet 6 inches top from 3 to 4 feet long at the bottom, should. The depth may be from $31 / 2$ to 4 feet, and there should be a sloping gang-way leading to the bottom
of the vat. Then it is advisable to board on which the sheep may stan tove a draining to allow the material to drain from their wool and fow secured, or a tank may be constructed of lumber or throughout the sheep are being purchased at intervals left in the tank and the new-comer dipped before be be placed with the main flock. Where the flock is large couple of yarrss may be built with the dipping vat sheep go after being dipped, may be so constructed as drain the material back into the vat. On some of and 6 days old. In gilt to
 Drayton Democrat her buyf
er, G. Holt Thomas, fixed er, G. He the Thomas, ixel
her value the extroodif
nary figure named. Other nary figure named other
pilts in this sale realized 500 gilts in this sale realized 500 ,
460 and 400 anineas ,and 460 and 400 guineas, and
the fine average of f 12215 . was made on 82 head, or a full total of $£ 10,06$. Berkshire pigs are meed-
ing with a revival in tradein the OId Country. The
British Berkshire Pig Society held a show and sale at Reading on April 14 th, when
54 posed of at an avera of $\pm 615$ s. apiece and 33 boars at an average of 65617 s .
each.
Thus the 87 head an average of 553.18 s. apiecee Wuineward Palmer gave J . Nagle's boar
Hammond'c Hat Hammonn's Hot entor and
370 guineas for Lord StalA Profitable Farm Flock. Scott first, Motcombe tensive that champion at the show held in connection with the
sale. In the sow department, Mre. Beatrice Gervoise
got 200 guineas for Herreard' Primula 4th, first and got 200 guineas for Herreard' Primula 4th, first and champion of her sex.
Middle Whites (i.e. middle weight Yorkshires, as Cou call them) sold well at John Chivers' sale at Histon,
Cambridge, on April 13th. Four gilts, all sisters, by Cambridge, on April 13th. Four gilts, all sissers,
by Histon Halo, averaged $€ 93$ apiece. Mrs. Hayes
Sadler gave 110 guineas for a lengthy and level July, andler gave 110 guineas for a lengthy and level July,
1919 gilt, by Shrewsbury, the clampion boar at the
Roval show. All told some 62 Histon pigs averaged Royal show. All told some 62 Histon pigs averaged Supplementary estimates amounting to $\$ 4,118,571$ have been tabled in the Provincial legislature. Of this amount $\$ 176,000$ goes to ag
colonization and immigration.
thaire yiz

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sheep will not the er of the flock will
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## aions in Britise

 Pigs. long it will last andwill end, depoe rkable but there is larkable battle goin nable breeds. At th on the crest waw i pig, and the Middle
his strugle eing paid for pigs haved e golden age" of tha 3ates cattle at hom ans ben mint an uality but of come: dispose of fore a fer a a number of young sale return. Todaly,
vith the establishment breeders have to seek s to enable them to of writing 700 guineas
April 15 th at Mr Best of All, farrowed of first prize for the
imithfield Club Show of the show against
.15 lbs at 7 months, sold. In gilt to Thomas, fixed named. Other 1500 realized 500 400 guineas, and 1 of $£ 10,06$ shire pigs are meetOld Country. The ow and sale at April 14th, when an average of
erage of $£ 5617$ 1 of $£ 5,2113 \mathrm{~s}$. or of $£ 53$ 18s. apiecce. J. Nagle's boar
Hot'entot and or Lord Stalction with the s. Beatrice Gervoise
nula 4th, first and

Yorkshires, as
sale at Histon,
all sisters, by
Mrs. Hayes
d level July,
pigs averaged
\$4,118,571 ure. Of this and $\$ 50,000$ to

## THE FARM

## Our Scottish Letter

The weather at the present moment (April 13) is he ali-ime of abnormal rainiall, with comparatively been onst or snow. It has been a good we linter has
little frosters and graziers, but work on the land has
fockemater Aock-masters retarded through the prolonged period of
been greatly wet weather. Only within the past feen in condition soil throughout sarmers, therefore, are very busy getting
for sowing. Far in the seed, but even
ben a better seed-bed. At the beginnow as to how would be carried through. There was nothing more than an average Prop hay and straw were scarce. Price for hay and straw reached a figure almost unprecedented and, had the winter been severe with prolonged spens of
hat and snow, the situation might have been serious frot and snow, the situationnd mit on the balance, the enough. As distinctly favorable. Stock of all kinds
situation is
she been brought through at a minimum of expense,
 and even at this early date pastures are ar we ther
fill bite for sheep. At the time of writing, the weather fifl bite for sheep. At the thme ono mornings there has
is bitterly cold, and for the past two me is bitterly cold, and fost. However, the days are length
been fairly hard frost onsiderable strength, consequently ening and the sun has considerable strength, consequently a touch of frose
than otherwise.
the Potato Planting.
In the early potato areas on the Ayrshire coast
Iantine was got through without sericus difficulty, planting was got through without sericus dificulty,
although the condit ons were not ideal. This work is although the conditions in the second half of February,
usually carried througl
und and and. A phenomenal feature is the fact that already a considerabie portion of this early potato crop has been sold. There is no more secuate crop han the the coast is thin and poor, but when heavily manured with of ammonia and potash where the wrack fails, the returns are, under normal conditions, considered to be
 and in every case a catch crop is at once sowed after these potatoes are lifted in the beginning of June.
this catch crop consists of rape Italian rye-grass, and This catch crop consists or rape, Ttathan rye-grass, and
kindred fodder sown broadcast. These catch crops, however composed, are not cut down but are eaten
down by sheep in the late autumn. This is an ideal method of maintaining the fertility of the soil, and the acreage suitable for this intensive farming yields two
crope every year.
Potatoes for winter use are planted after the spring seeding and are lifted in October Ther the spring seeding and are lifted in october.
This year the of 1919 is reported to be keeping This year the crop of
remarkably well in the pits, in this respect forming a striking contrast to the crop of 1918 . The likelihood
is that by the first of June, when the crop of 1919 should is that by the first of June, when the crop of 1919 should
be almost wholly disposed of, potato growers will have nealized full value for all they have to sell. The price promises to be abnormally remunerative; a maximum having been imposed by the Government which will
ensure a very large profit to those who had not already ensure a very large profit to those who had not already
disposed of their crop. In pre-war days growers. of disposed of their crop. In pre-war days growerin
lite potatoes - that is potatoos for winter and spring use were often glad to take $f 2$ per ton or thereby fron about th
a matte
Governn
relation of farmer thins, the the
tax has naturally review. Prior to the war
farmers were not assessed
ducers on their porfits. It was recognized that farm bookkeeping was a soneewhat difficult proposition, and the
rough and ready
was resorthod of assessing for income tax
for to met taking one-third of the rent a
representing the, "profit. Asing one-third of the reme tax in those days
was not assessel
was not assessell in incomes below £160, a farmer had
to pay a rent of :iso lefore he became liable for income

are rented at less than $\pm 480$, it followed that unless a
farmer had an in wine from other sources in aldition on the basis of.
the great majo

THE FARMER'S ADVOCATE.

to his farm he paiii no income tax. National exigencies are quite so sagacious, but they are a mar vellous trreed arising out of the "ar necessitated a revision of this having a beauty of symfeces impart a striking beauty
basis, and in 191: "ncome tax was assessed on farmers and their strong white face
on the basis of two years' rent representing their profits The royal commission has now reported that this mefthod henceforth farmers should be assessed like other traders The meaning of this is, of course, that farmers must keep accounts like other business men. Recognizing the difficulties attending farmers accounting; the Government has appointed an agricultural costings
committee or commission. Under its auspices a large committee or commission. Under its auspices a large has a district assigned to him, and it is his duty to keeping correct accounts, showing costings and profits It is not the intention of the Government to push this
alteration of the incidence of income tax on agriculalteration of the incidence of income tax on agricul-
turists unduly. Time will be given


A Bunch of Shorthorn Calves.
adjust their methods, but the determination of the legislation is that farmers must pay on profits, and that
these profits must be disclosed by accurate accounting as in other industries. The fairness of this cannot be challenged. It has long been a sore point with other traders and producers that farmers were dealt with in this exceptional way. acquaintance with the scientific side of agricultural methods, excuses for neglect of bookkeeping which were once plausible can no longes be maintained. I anticipate a very large increase to the revenue as a result
income tax on farmers.

Trials of the Flock-Master.
Hill flock-masters have recently held several ineresting conferences dealing with matters affecting Scotland are the Rlackfaces and the Cheviots. Speaking generally, the former are the more hardy and are to be found on the higher grazings. The later are the be found on the lower slopes, and predominate on the borders of England west Highlands. The interests of flock-master owning the two breeds are almost identical. They hav to contend with the same difficulties in carrying through their stocks during severe snow-storms. The Blackface

Hereford Bull Calves.
eed is celebrated for its tenacity of life. Astonishing tales are told of the length of time during which ewes
have been buried beneath snow wreaths and taken out alive. Gradually their breath forces its way ap through this doubtless has much to do in assist ing the ewes retaining new vitalerful sagacity in anticipatthe snow. They ex and in avoiding areas in whirh they are likely to be smother, but they are a marvellous low,
are quite so sagacious,
having a beauty of symmetry and form all their own, and the breed. During the past thirly years Cheviots
to the the
ajorit of farmers liable. Two years ago
hardiness. From torty to fifty years ago they were bred flock-masters sustained unusually heavy losses with the result that in a large number of cases the Whitefaces were dispensed with and Blackfaces took their place, extremely troublesome and so far obscure diseases These are known popularly as louping-ill or trembling, braxy, and scrapy. The first and third are popular presence of the disease. Sheep affected with the firs are seized with trembling which develops into a curious
gait to which the term "louping," or a sort of leaping feature is attached hence louping-ill. "Scrapy" is disease which manifests itself by the sheep attacked a voiding its fellows, wandering away alone and scrap
ing itself against any sort of obstruction it can discover The origin of the name of obstruction it can discover be sait to convey any idea of the symptoms of the is the best thriven hogs or young sheep that are at tacked by braxy. It would be idle for a layman to
pretend to a knowledge of its cause, seeing that up to this date scientific experts have failed to discover a plausible explanation or to suggest an effective remedy All three diseases are localized; there are areas in which each is much more prevalent than elsewhere, and there A determined effort is to be made to investigate th causes of these diseases. The losses from them are annually estimated to run into many hundreds of thousands, if not one million pounds sterling. An raise funds, and to employ concerted scientific assistance in investigating at first hand the causes of these diseases, and if possible to find a remedy
Another form of handicap against which hill flockdemand for sport to the detriment of sheep rening It cannot be denied that the increase of rabbits is detrimental to the promotion of pastoral farming, Rabbits are vermin, and they multiply at an amazing
rate. In that respect they are perhaps. only excelled rate. In that respect they are perhaps, only excelled by rats. They pollute the pastures, and it is a known
fact that sheep will eventually not graze pastures that act over-run with rabbits. In like manner flockmasters have to contend with a foolish prejudice on the part of game preservers, against burning heather. In order that heather may be kept young and tender
it must be burned in fixed rotations, but were flockmasters always to burn it when the weather permitted they would of necessity destroy the nests of grouse. Consequently Acts of Parliament have been passed burned rainfall, it is almost impossible to burn heather within the prescribed period and there is an agitation for the extension of the period. The prescribed date is the middle of April; flock-masters are pleading for an during the war in the interests of food production, that is for the purpose of growing crops, the demand seemed reasonable that the concession should not now be withdrawn. Another problem is connected with the is really not a forest at all. It is, or it should be, the higher portions of mountain grazings which are not suitable for sheep. Unfortunately the growth of wealth led to such active competition or these and put on deer, where the former were undoubtedly the better class of stock for the well-being of the country. If deer could be kept to their own high grazings the evils would not be so great ate ${ }^{\text {a }}$, during severe weather the long continued they come right down on to the low ground and destroy both crops and stack-yards. Their powers of destruction are even grearer has long been a burning question. War of food. This has long been a burnang lessons. One of them is that deer forests have multiplied to a wholly indefensible extent and that this policy of substituting sport for agriculture, deer for sheep, must take end. The proble no simple one Nevertheless, it is a problem which must be attacked and solved if the land problem of this country is to be used for agriculture and not converted into a sporting arena.
in the Clvdesdale Arena.
Clydesdale interests have received a fillip during the past month by the shipment 'f the Government of
Alberta of James Kilpatrick's Craigie Masterpiece
$\left(18^{2} 297\right)$ This horse was selected by Norman Wpir
 Agriculture for Alberta. It cannot be gainsaid that Mr . Weir has done his work well. The horse is an ideal Mr. Weir has the purpose in view. He has a beautiful top, with the best of "underpinning" as you ca'! it He has a head, neck and shoulders like those of a
Thoroughbred, a splendidly-rounded barrel, with good Thoroughbred, a splendidy-rounded barrel, wis breeding is of the choicest, and back and quarters. prolific sire has been well proven and
his reputation a thoroughly attested. It at no horse has been shipped possibly have done in being done it became necessary to and in order to the district horse-breeding society, which had hired get the district horse-scind their contract. This they did on Mr. Kilparrick placing piece a younger horse, but brother of Craigie Masterpiece, ally successful. It is
one which promises to be equall
ment of Craigie Masterpiece represents a new de-
parture in stock breeding in the Northwest. Its issue will be closely followed, and no doubt Mr. Weir's selection
will be subiet ted to ken criticism confidence that the criticism will mainly take a favor. able form. It is.not possiole to please the the limits that were open to him. By that is meant that he was under the necessity of purchasing not the horse which
 he wight be shipped in time for the coning season in Canada. Mr. Weir has certainly got a right good horse, and it will surprise us if Craigie Masterpiece does not do much to rehabilitate the Clydesdale in the good opinipn of some who may be disposed to cavil at found their way to Canada
held sine Abercen spring show Cldestales has becn held sence. The wrote. It was a conspicuously success-
ful event The fure of it was a class of yearling
filies of wonder wl of the old sire Roval Favorite (10630) an exceedingly well-balanced and well-colored filly with beautiful limbs and very nice top. She was shown by her bree''cr,
Mr . Robert Young Por Another feature was an extraord'inary big two-year-oli, filly named Dunure Maud, owned by Falconer I Wallace, of Balcairn, the great Shorthorn breeder of her age, and yet very uniform in her buildy Chesta or her age, and yet very uniform in her build. She is
not long leged, but very deep with a grand top. Her a somewhat unusual type in the modern Clydestal.

## AUTOMOBILES, FARM MACHINER

 AND FARM MOTORS.depend's upon the adjustnient of the plow. Take time
to adjust it prorerly and save tim e later.
The man who gets the greatest amount of satisfaction lrom the tractor is the one who takes the greatest care
of it and avoids expensive losses of time in the husy
seanson

How are the cullivator tecth? Are thev sharp and in good condition for the spring work? The harrows
also should be put in good shape and the teeth sharrened and cleaned.
The long delayed spring, has given a little more
grace to the man who has not got his farm machinery grace to the man who has not got his farm machinery
in shape for the spring work. With labor so scarce and expensive it wall pay to utilize every spare moment
in providing against delays later on that might have
been avoided Has the moner been lying outside all winter? If
so and if you expect to work with it this summer it will probably need sonre repairs. Repairs take considerable
time and when having time arrives there will he no + tiwe

 experiencent and the poor work done, bee sure that you
know hoow to atjust the traw tor implements and how
to


Some Tractor Pointers for Everyday This articte consits of orerphs frown a lull






The Operator Should be Able to Handle Both
This has been true of practically all improved farn This has been true of practically alt hiproved farm
machines, even of the grain tinder, which is enerally
considered one of the greatest ant acultural inventions of the nineteenth century, but which d'id not, contrary, perhaps, to general opinion, decrease the cost of harvest-
ing wheat to any considerable extent, though it did ng wheat to any considerable extent, though it did
increase about cightfold the acreage which one man could handle.
If should be remembercd that the cost of doing the
work with a teractor in moat cases work with a tractor in most cases can not he compared
directly with the cost of doing it with directly with the cost of doing it with herses, since generally are retained; any comparison, therefore, with horses alone, and the cost of operating with the tractor and a certain number of horses. Not infrequent-
Iv horses stand idle while the trator is field work because sulficient help is not availalle to use them at the same 'ime, and in such cases part of the
cost of their manintenance must be considert figuring the cost of farm operation since they are mon Neither should it be forgotten that not only should The relative experse of operation with the two methot's


The Wearing Parts of the Tracter Should Not

The average depth of plowing done with tractor by the Dakota farmers who furnish data is sactorn
less than $61 /$ inches. The average depth thighty previously plowed with horses was about 5 hey hai indicating a better quality of work it considered din o have had any marked cffict ort, it does not appena although increases. from this cause were reported ivid, in
number of cases. number of cases.
land, it will, of course, as with plowing depend plowed and, it will, of course, as with plowirg, depend plowed
ulom the implement drawn and the skill of the The question of packing the soil is usually pperator portant in connection with work on plowed land than in plowing, but that this is not a serious drawback wan in modern traccors in a large portion of the Dakotas in ractor owners reporting say that theirt. of Dakotet satisfactory for use on plowed land machines are The reliabitity of a tractor depend xtent upon the ability of the operator. Of 281 tractor as to how many days their answered the question mission when nected, 139 ( 49 per cent) heir outfits were not disabl-d a single day when needhel huring the past sassen. Of the re maining 51 per peed he aver?ge number of days their tractors were oute of ommission when needed was 6 . This average, however
id not inclure five men who stated that ther ese nut of commission a large part of the time machines Of the tractors owned by Dakota farmers about 93 nor cent. are operater by the owner or some member of his family, the beet results usually being cent. of Dakota owners reported no. Timiryytwo per field on account of troutle with the outfit. This probabbly Most men do not consider it trouble so long as thtioy ynging. ance the cause of stoppage or other irregularity in The average time lost per dav by the 68 per cent tippoty, ing trouble is a fittle over three-quarters of an hour

Dislpicement of horses.
The reports show that on Dakota farms, horses are Carms where the tractor is bought and where no intrease is made in the acreage farmer. The tabulation of the the acreage after the purchase of the t was made in the acreage after the purchase of the tractor showed
that on 62 of these farms horses were displach on 46 the same number were kept as before the purchase of the tractor. On the first group of 62 farms, with a total crop a creage of 18,904 , or an average of 305 crop purchase of the a tatal or 630 horses were kept before the Hised on these farms. In other words, an averaze of farmenty less than four horses were displaced on each army the purchase of the tractor. On the second in aver 40 farms, having a total of 15,553 crop acres, kent, the same as before the purchase of the are now For a number of years following the introduction of gasoline and kerosene tractors the only special equipExperience soon demonstrated, however, that a great many of the horss-drawn machines which could be attached behind the tractor were not sturdy enough for powerful and unviolding than horses, and machines used in connection therewith are subject to more sudden an. severe jolts. As a consequence during the past development of disks binders and ben given to the जporially constructed to withstand the heavier service.
It is olvcizusly impossible to obtain mavimum results primarily for use with horses, and the objection of many
profit for certain tyat the of fractor can not be used with
to holli gord with the further development of special
machin-ry for use with the tractor. There is con-
centions of implements and at attachments deeigned
will doubtless unce with the tractor. Many of these
practicablc ancrease its value for farm work, making
where its use is now both impracticable and uneconomical. It is for the purpose of doing work of the nature
last mentioned that several horses are often kept after the purchase of the tractor. With the development of special machinery as above outlineed, it seems probable
that a higher percentage of work stock will be displeced where the tractor is used.
The amount of repairs required depends upon many The amount of repairs required iepends upon many
factors, the most influential of which is the profcieiency of the operator and the care he gives the outftit, both when in use and when idle. The conditions under
which the outfit is used-that is, whether on rough which the outfit is used-that is, whet her on rough
ground, in dusty fields, etc.- the load it is required to yround, in dusty fields, etc.- the load it is required ol
null, andl, of course, the quality of the machine itself.
 In repair thy the reparn tiacturer free of charge during the scar s service, excepting such items as are caused te fault of the operator. It is not until the second
 oulf its one seacon or less (average aga 10 months), ortecl that tney had spent nothind for repairs

## Mav 13, 1920

and 24 months (average age, $191 / 4$ months) ages of 13 . For 49 machines between the ages of 25 and
was 40 (average agc, 33 months), average, repairs

36 monthis (aver

3 mounted to $\$ 97$. Tepair charge during the first three years of a tractor's | repair charge 3 per cent. of the first cost, but this wour |
| :--- |
| life of about | lie or abtedly increase during the latter years of its infe, as is the case with most oxpect the cost of repairs for a tractor to seem sae ess than that for other farm machines, wnich is a little, over 4 per cent. of the first cost, it will amount to slightly more than improbable that it wifire costs to be charged against thprobe In figuring the repair costs to be charged agnual each da

charge charge has been taken as 4 pene Per Acre
The number of acres covered per day by a plow drawn by a tractor is usual horse-drawn plow. The acreage covered by two different machines, each pulling
 siderably, beeause thil plowing different lengths of furrows,
different kinds of soil etc. ther should cover approximately 3 acres plowing speed working day of 10 hours, as the a verage plowing speen is slightly more than when the plowing conditions are in actual practice wherable, provided the outfit does not give trouble. That is, a 2 -plow machine should plow 6 acres and a 10 -plow outfit 30 acres per day, provided both travel at the average rate of speed and are where trash, which frequently clogs the plows, ever, where trash, under, each plow drawn by a large tractor is to be turned
will cover much less ground, in a day than one drawn will a small outfit, since the delays will naturally be in proportion to the number of plows pufled. A only 1
on account of 1 plow on a 2 -plow outfit stops ont other plow, wh
a ther plows.
9 other plows. According to the figures furnished by tractor owners in the Dakotas, the area covered per day ( 10 net working hours) in plowing with the tractors most commonly
used is $6.3,8.5$, and 10.9 acres for the $2,3,4$-plow outfits, respectively. other than plowing will vary, of course, with the width of the implement pulled, and this in turn are acreage
upon the relative draft. The approximate upon the relative
covered in a day of 10 hours with implements of different
widths can be determined easily by allowing about 2 acres per day for each foot of the implement's width where the outfit is working on soft ground. Where it has a good footing implement's width. The acreage covered, of course, will vary with digures given arc
owing to the different speeds, but the figur git based on a speed of 2 miles per hour, with an allowance for time lost in turning and the slight overlapping,
which is a trifle greater in most other field operations which is a trifle
than in plowing.
By far the largest proportion of the work done
tractors is in plowing and preparing the seed-bed and in belt work. Though they are used for a number of
odd jobs at different times, these represent an insigniodd jobs at different times, these represent an ich usually
ficant portion of the total work. Hauling which occupies farm horses for several days annuallv, is not commonly undertaken with the tractor, and. in most
cases where it has heen tried it has been found less satisfactory and more expensive than hauling with horses or it is necessary to have several heavily loaded wagon and this makes an unwieldly outfit in turning corners
and in getting in and out of loading and unloading and in getting in and out of loading and unloading
places in most towns. Other ohiections to the use places in most towns. Other onjections tho have
of the tractor for hauling advanced by men who
tried it are the beavy wear and tear on both tractor and tried it are the heavy wear and tear on both tractor and
wagons on hard roads, expense on the unloaded return trip almost as great as when loaded, and difficulty in
handling heavy loads on grades. It is not surprising therefore, that only about 14 per cent. of tractor own ers report doing hauling with their outfits and that
the whole, hauling respresents less than 3 per cent. of

## THE DAIRY

 It they can ch
alt the better

When the calf is about two months old it may begin to nibble a little corn silage. This may be fed more or
less freely, but the calves will not eat any appreciable
quant quantity until they are three or four mont hs old. Sometimes, when neither skim-milk or whey can he
secured, the use of hay tea is suggested. This is made
by boiling cut clover or timothy until a strong tea is secured, which is fed in exactly the same manner as
milk.
Plan to keep the young calves in the stable until they such an extent that they are likely to make poor growt and the skin of a calf is not tough enough to enable it
to stand the hot sun. It is good pelicy to grow all the roughages on th
farm that can lom monn These, together with the shat
that will be available from the farm, will furnish the
bulk of next winter's feed. The ration can then be
balanced with purchased feeds.
If it is to develop into a profitable cow or an animal
good size and vigor, the calf of good size and vigor, the calf must be kept growing
steadily from birth to maturity. A good growing heifer should gain at least thirty pounds a month for the first three months and from then on until she is a year old the gain should be a little more.
One of the reasons why it is not advisable to put the old is the fact thast the until they are about six months centrated than older animals. Grass is very bulky and will prove uneconomical as a feed for the digestive
system of the young animal.

Do not breed the young heifers too early. The
proper age for breeding will depend somewhat upon the breed, but in general it is not wise to breed until they are at least twenty months old. Heifers of the erly as the smaller breeds.

If green crops are desired that can be cut and fer the cattle during the dry season, a mixture of one and half bushels oats and one-half bushel peas, per acre
recommended. This mixture can be sown two or three imes, about two weeks apart, and afterwards a patch ! millet or Hungarian grass.

Clean Milk for Cheesemaking
$\qquad$ zation and there is more truth than poety in the statewe sell our products for a guide as to what is required by the consumer and this is becoming just as true of farming as it is and has been true of mannfacturingough there still remains a very great deal to be learned about the art of farming and growing crops and animals, we have not paid sufficient attention to the question of marketing. Co-operation has, therefore, taken on a new meaning and everywhere there are evidences of ion leads us to new points of vision and allows us to get new per spectives of the business of farming, one of the most important of which is an early knowledge of put on the


Soon Can this Scene be Duplicated on Hundreds of Farms
maker with milk of the best possible quality How
to do this is the farmer's own problem, but he also to do this is the farmer's own problem, but he also
will find that extra precaution costs money and that an extra price is necessary for hetter milk. The superior product will partly provide this and co-operation will
also help, but the best method of getting nay for the raw material of a quality actually produced is to adopt raw material of a quality actually produced is to adopt
the method of paying according to test and to insist that only milk that is quite suitable for cheesemaking be allowed to enter the vats. Eventually we must come to some practical system of grading milk and cream for the manufacture of such important foods as are all
our dairy products. The consumer will demand it and he pavs the bills. The farmer's own interests will make it profitable to comply with this requirement for a good product.
The principle question is how to get good clean milk the farmer because the cheesemaker's liabliity can begin only when he receives the milk. Cheese making is more or less of a summer business and unfortunately for the
industry the summer months are the months when it is industry the summer months are the months when it is
hardest to keep milk in good condition for any leng ${ }^{+}$h hardest to keep milk in good condition for any length
of time. Merely keeping milk cold is not enough. We of time. Merely keeping milk cold is not enough. We be kept cold is clean. Cleanliness is to some extent parallel with hut even more important than the carrying If all milk were clean and cool when manufactured into dairy products there would be no need for standard izing raw materials because fresh milk cannot be altered xcept by adulteration or condensing. It would be infortunate and a poor commentary on the intelligence and honesty of armers if it shoung of milk for cheese factories. This should not be neeessary and after all the best kind of grading is the kind that is done voluntarily, by each dairyman doing his best to produce the
cleanest milk possible under his conditions. A great cleanest milk possible is due to indifference and ignorance. Ignorance because we do not know sufficient about the marketing end of our business so that we can appreciate what poor milk means to the finished product countries and the wiping out of our national debt. This not at all far fetched because it is only common-sense to think that the prosperity of the country is based prim-
arily on the intelligence and the thrift of the individual whether he be farmer, employee or manufacturer. The trouble due to indifference arises out of the fact that when we milk the cows and strain the milk, or clean the stable at milking time, we do not think in terms of cheese on table of some family
Great Britain, who help to swell our national trade the market for our milk
the mare We are not indifferent to the immediate price we re
ceive for our milk, but we ceive for our milk, but we
are too indifferent to the
ultimate destiny of nur proultimate destiny of our pro-
duce. Our outlook must be duce. Our outlook must b
changed before we can ever changed veluntary grading of our raw materials. And good milk is absolutely essentia a first-class product.
Clean milk means clean Clean milk means clea
healthy cows, clean stables clean utensils and clean dairymen. None of these
are beyond the reach of the are beyond cheese factory pat-
average
ron. To have clean, healthy cows we must supply plenty when they are stabled. The cow is a wonderful machine
for the manufacture within
consumer and the consumer always wants good products. All consumers want the best of quality, but only part
of the consumers are able, or willing to pay. Nevertheless, all will pay mrre for a good product than they will for an inferior one and the obvious thing to do is to strive best a good thing in the knowledge that in spite of eno enough effrrts there will be sufficient failures who will not or cannot Cheesemaking is a tremendous big industry in Canada and particularly in Eastern Canada. This industry supplies a and a large part of it must find value as humarld market. In fact the almost absolute dependency of the dairy industry of Canada upon the world's market is a factor in the dairy farmer's success that is too realized. Most of for products want to know why, but this is impossible unless we know something about the market. The market can find out from the market what is the matter with the product itself. Standard ization, or rather the lack of it, is one of the things that has been lacking in our dairy proid out how serious a and we are just beginning to feand out it is although we can hegin at the marketable product and standart ize it, ardization, or the percentace of the produc: that grade ardization, or the percl. This can only mean that before
high will be verv smath. her body of human food and, like any other machima, her body must be taken care org, is so important on this
aside from the human being, earth as the dairy cow. From her body we secure milk, cream, bute, powdered milks, besing and for the feeding of other kised in manutacturing of live stock. Milk, however, is very perishable, in fact so perishable that in the warm weather of summer it is very difficult to keep ilf sast be kept clean and Thus it is that the ary precaution against unbealthful healthy as a mirty. The feed and water she consumes are just as important as ventilation and actually manucause it is from these that the milk is actually manufactured within the cor the manufacture of clean pure water especialf is over 80 per cent, water and a cow that yields heavily needs all this water besides that necessary for the maintenance of how they are fed, feeds tend to taint the milk no mattilfilly, will produce while others, unless turnips or tops, rape, mouldy meal, spoiled hay, spoiled silage or cleanings from horse stab
feeds likely to produce such results
Dirty stables are the result of pure carelessness or lack of sufficicnt help. The latter conditions is ery
hard to overcome, but where both conditions are met with the effect on the milh is very serious ank or use it be injurious to the health of those clean milk from a
The importance that is placed upon cell
health standonint is realized by all those supplying

ГHE FARMER'S ADVOCATE.
keep think to our city markets because they mus the milk must be cared for properly. This is one of the reasons why market milk is worth more than cheese can find its ity stables and cows mean that much dirt manure abounds in the more injurions bacteria we are told. One often notices the practice of cleaning the stable or bedding down the cows while the milking they do not and those who do it are either careless, o some of which pail. Do not leave the milk standing in the stable while the calves are fed or the last little chores are don as possible after it is drawn. What is the use of having clean healthy cows and clean stables if we draw the fresh uncontaminated milk
into dirty milk pails or dirty milking machines? The into dirty milk pails or dirty milking machines? The
milk should be ca efully strained immediately after milking through a fine, wire strainer or a clean cloth The strainer requires special care and to kep
it clean it requires to be rinsed and scalded it clean it requires to be rinsed and scalded
after each milking. If cheese cloth is used to strain atter each milking. If cheese cloth is used to strain
the milk it will pay to renew it frequentl a and
boil boiling occasionally will help to keep it clean until it is to the factory must be just as clean as the milk pails because bacteria which cause the souring or the spoiling of milk would just as soon find their way into the milk by way of the milk cantas the milk pail. Much of the
trouble from milking machines is due to the fact that they are not kept clean. It is just as possible to produce clean milk drawn through a milking machine as by
land, but sometimes, due to carelessess, such mik is land, but sometimes, due to carelessness, such milk is not nearly as clean as
statement that cleanliness is next to $G$ drawn. The never more true than in connection with the edairy industry. Eternal vigilance against the unclean in the price of clean milk and pure dairy foods. Must he wear
And now for the dairyman himself. Min a white apron-a clean one and comb his hair and have a bath before each miking. Not hy any means, although it might mean cleaner milk if he did-and
less of it for the consumer. At least he can wash his hands and perhaps have a clean smock in the milk house that he can slip on when it comes time to mik. Clean not the carth or the straw in the milk that spoils it but the injurious bacteria that cover it. The same is true of our hands. Even clean hands probably carry some
bacteria, but if we could count the hacteria on even bacteria, but if we could count the hacteria on even a
moderately dirty hand we would probably be astountled All bacteria are not harmful, even to milk which is so very susceptible, but the harmful kinds are so tiny and
numernus that they are like the poor-they are always
"Let us then be up and Joing" and if it is not practic able for us to produce absolutely clean milk let us do
the best we can. The spirit of cleanlineso marvellous rassults if we encourage it. Diseases and
death to human beings follow in the wate or

Holstein Sale at Unionville. The weather on Tuesday, May 4, was too fine for the
success of the Holsten sale, held at Unionville, comsuccess of the Holstein sale, held at Unionville, com-
prising the herd of the late Frank Boyle. Many of
the cows, too, had gone partly wrong in their udders the cows, too, had gone partly wrong in their udders
from some cause or other, and this, of course, puled
down the average as well as the prices of those which down the average as well as the prices of those which
were sound. Some cattle were consigned by W. F. Elliott and
these also sold wwell within their value, and the sale throughout may be waid to have favorud the the sale
that
rather than the sellers. The total receiots for the rather than the sellers. The total receipts for the sale
were 86,097 , of which $\$ 4,510$ was paid for the Boyle
herd. The cows, three-yearsold pai herd. The cows, three-years-old and upwards, made
hn average of $\$ 222$ andy calves under a year sold from
$\$ 50$ up to $\$ 135$. Following is a list of the and $\$ .50$ up to $\$ 1.35$. Following is a list of the animals sold
or $\$ 100$ or over, together with the names and addresses
of their purchasers: Dina Pontiac Galatia, A. W: Steplenson,
Rechmond Hill
$\$ 23500$






## Duckling Raising

Rivernead Fanny Cornucopia, Wm. Mckeen, 210.00
 Mercena Hengerveld Korndyke, W. W. Clubine ${ }^{240.00} 14500$
Lora May Pontiac F Susie Korndyke Walker, H. Aldamson Neta Pontiac Sylvia, H. Adamison.
Dorothy Hill, H. W. Emerson

## POULTRY.

The orchard is usually an ideal place to rear young
poultry stock. They get plenty of shade. exercise and
If the broody' hens are allowed to occupy the nests is likely to be curtailed.

Put the chicks on new soil if possible and choose such soil as is not too heavy nor wet. For the first
week or so they should not be given too much range.

Do not forget that with the advent of warm weather the laying flock needs plenty of exercise and green feerl.
Free range is excellent and reduces the required, besides keeping the birds in good health.
te is very important to remember that when hens Iy with for hatching, they must be dusted thoroughoff, or a heavy mortality may result among the chicks

A mixture of rolled oats or dry bread crumbs together with a small quantity of hard boiled eggs is one part of eggs to sixix parts of rolled oats or bread

When the chicks hatch it is a good plan not to feed nourishment is provided within the egy en ousticint
chick for this the troubles may restly from feeding bowel and digestive


Where Both Chickens and Children Have Free Range and Plenty to Eat.
to give the lijirds all the freed thee reen feed and insects too soon after hatching. At the time it leaves the shell At any rate it is not arlvisalle e to cequire on the range. the young chick has a substantial amount of yolk at-
suddenls tond the hens have been used to should be gralually cuin that it with all the feed it needs for five or six days. Feeding belore the greater part of this yolk is absorbed iinto the
system is very likely to cause dizestive troubles. After If the flock is a goorl sized one and you are not sure the chick has been hatched about three days. some that there. will be sufficient of the right sort of green feed should be biven in small amounts and at frequent wo or three small patches of such profitable to plant intervals. Feeding frequently is much better for the ats. A row of sunflowers is desirable also for shade What plans have been made so far for the co-operative
marketing of egus in your localify?



Editor "The Fapmes
place, and carefully selected and kcessfully, the egge plaid. The nest should be thoroughly days after being cut to fit the nest, then put chaff two or three ind
deep on top of the sod. deep on top of the sod. Hollow the sod in the centes
so as to make it nest shape put the make it nest shape. her used to the nest before setting. St, so as to get put in front of the hen so as to prevent lats should be ing the eggs. The hen should be fed and whrate If the eggs should happen If the eggs should happen to get broken in the nest and then fresh chaff put in the nest ducklings start to pick the shells, dip As soon as the warm water every four or five hours. When duckline. egin to hatch out take them from the nest and puting basket in the house where it is warm until, and put the When starting to feed the ducklings give thatched. milk after they are twenty-four hours old. Ducklinet hould be given to the hen and kept in for a few dage Do not let old. Feed them on breat and milt ree or four weets weeks, and then start them on a mash or two or three shorts. Mix the mash four hours before feeding. A yard should be built for ducklings and it is b to prevent the hot sun and winds fron run under it, They should have fresh water in front of thiking them. time. A trough should be put in front of them all the seven inches deep, so as to prevent drowning. Young ucks can be raised on shorts and cornmeal. Mis imes a day. Ducklings can be kept and feed three eady for market. kept on this untill

## Handling Young Chicks

In handling, young chicks, whether hatched by the or with an incubator, many make the say, with a hen
 hicks than feeding larger amounts less frequently. has been discovered that for the first ten days or two
weeks it is a good plan to feed at two or three-hour intervals, giving five feeds per dav, especially for early spring, while as the hours of daylight lengthen so that it is still light at 7 or $7.30 \mathrm{p} . \mathrm{m}$., another feed should hroughout the day as suggested by Professor W. R Graham, O. A. C., Guelph, in the following: The first 2.30 p.m.; fifth, 5.30 p.m., and where a sixth feed is given, 7.15 or $7.30 \mathrm{p} . \mathrm{m} . \mathrm{m}$., It will be noticed that is the
two first feer!s are only two hours a two first feeds are only two hours a part, which is due
to the fact that in the morning the chick are hungry and


May 13,192
ancesstully, the
kept in a dry,
clve days after' clve days a atry, boing
khly cleaned and ond sod in the centises or so, so as to got
Slats should vent ot her henombrak broken in the nea est. As wonn waten wh ITs. Whe eggs in in luke te nest and putining ham, and put the lings give them sweed purs old. Duckinars e day. Do notet
e three or four tet for two or theres ash of sour milk and
refore feeding klings and it ney can run underit, from striking them.
ront of them all the ront of them all the
front of thenn about $t$ drowning. Young
nd corneal. Mix
hherts and feed the herts and feed. dhixe
kept on This until

Chicks
hatched by the e mistake of fecting

MAX 13,1920
to one part of egg. The latter should be finely, ground, induduing three days a feed can occasionally be given of commercial or home-mixed chick feed. A hade whe as follows: cracked whea diick feed can be ted oatmeal, 30 parts: smali cracked 35 parts, grana grit, chicken size, 5 parts. One should chays make sure that grt to ged oily rolled onts some form. Sonk pare it is light in color and convery young checks, ches can see it readily when thrown venien. on the cracked corn or wheat, but they should only on have a limited amount of grain for the firstise to fee until they have learned the chicks will clean up reasonably more at one this point should be carefully watched. The soon, and of some poultrymen indicate that a mixture ex equal parts of cracked corn, cracked whear and ord or mal will make a good ration for the first whe hen herself
mit that are being brood to get this mixture, since she cal sloudd not bately and three times a day a grain mixture be fed sep parts of corn and whear. it the above mixture is ised for the chicks, the oatmeal may be gracuariy eliminated during and ated for the cracked wheat as the wheat may be ssubs. The feeding of chicks hatched by chicks grow wach more simple than where the hatching is the hene is principally berause the hen will pretty well
artificial, look atter the fock tor the
sirierable extent thereaater overfeeding should be avoided Feeding tests have been conducted which show that about one ounce of feed per day for twelve chicks is the proper amount when feeding is first started, and that an increase should be given ordmanld aot be thery heave, or fift day. This increase should not be very heavy. of an ounce per day to a flock of sixty chickens. When of an ounce per way or ten days old it may be necessary to uses some kind of a filler that will provide bulk in the ration, and for this purpose cooked vegetables, dried to a crumbly will be found economical. Sometimes middlings,
stale bread moistened with milk can be used satisfactorily, and about this time also it is a good idea to
add some bone meal to the ration, but only up to five add some bone meal to the ration, but ifth day a little
per cent. or less. After the fourth or firl per cent. or less. Ater tre fourth or act diay a little orders.
ond one poultrymen advocate giving all the skim-milk
So the
to the chickens that they will take but Professor Graham to the chickens that they will ta ke but Professor Graham
advies the use of plenty of fresh water up to the tenth advises the use of plenty of trest
day, and after that the substituting of sour milk or buttermilk for the water. He states that the chick is likely to overfeed on milk fed in any quantity prior
tothe tenth day and that all milk used should be sour. Green feed also is necessary after the frist week. Lettuce or sprouted grains are excellent for his purpose, and are
fed to supplement the other feeds, not to replace any of them. If feeding grains of any kind, or chick feed it should be scattered in the chaff on the floor of the pen, because after the chicks are a week old they will
work away at it for practically a whole day and thus get the necess
${ }^{\text {Bret }}$ Frequent feedidy els. chicks are four weeks old, if they are being brooded artifcially. be reduced to fourr, and at seven weeks, to three feeds daily. When the feeds are reduced, to three times
daily, the ration may consist of whole wheat and cracked corm fed in the morning and again in the evening, with

THE FARMER'S ADVOCATE.
good mash for this purpose consists of bran, shorts and
cornmeal in equal parts, with an addition of ten par cent mash mal mer beef scrap. An additional feed of not advisable unless forcing is the chicks along, but is Chicks hatched at this season when they can range out of doors very early need not be fed as often, or as
carefully, as described above ot leat after the first wwo cate tully, as described above, at least after the first two
weeks. If they are being brooded by a hen, she will
looks.to look after them to a great extent. Labor can be lessened during the spring and summer months by placing a hopper or trough of chick feed in the coop along with the
hen and chicks, and keeping the supply of feed in it well hen and chicks, and keeping the supply of feed in it well
maaintained. This is an especially good plan where chicks have a good range about the fields of the averave farm. The supply should be large enough to last about a week, and although the hopper may be made of any size or shape, it has been found that those which slope from only one side. The coops and colony hith the slope on
onould be olleaned frequently and should be roomy senourd be to avoid over-crowding. Confining the chickens in close, stuffy houses will weaken them quicker than almost

## HORTICULTURE.

## Setting Out the Orchard.

The late spring and considerable wet weather has new orchards to be set out this spring have had to await the coming of more favorable weather before the
soil was fit to been for a week or so in the earlier districts, but there Is still time in most of the apple sections of the Province he setting out of young trees.
Those who are about to set out new orchards this spring have probabiy made up their minds alreay just
how the orchard is to be laid out, but it may be interesting to note just here that there are several systems of planting, chief among which are the square or rec-
tangular system, the quincunx and hexagonal systems. tangular system, the quincunx and hexagonal systems
The square or rectangular system is the most common by far, in as much as the trees are set in rows that line up at right angles with each other, and also at right angles to the sides of the orchard. In the quincun method, the same plan is followed but a tree is set in the
centre of each square, or, in other words, along the side of anorchard set out by this system only the end tree of every other row will come flush with the edge of the orchard, the first trees of alternate rows being set in half the distance between any wo trees of the othe to form hexagons, or six-sided figures, with one tree in the centre of each hexagon. This system gives the greatest number of trees per acre and divides the air and soil space more evenly, but is not so adaptabie t
the use of fillers and is sometimes a little more difficult to cultivate. The square plan in perhaps the better all-round plan, since fillers can be used to any extent desired and cultivation can be carried on with equal
Cacility in both directions. it should be laid out and staked according to this plan Staking is the only satisfactory method of getting trees to line up when planted, and, as an aid to straightness the best method is undoubtedly the use of a long wire notched or marked at the proper distances ther Whe strecth fromt one sud oubtedly is to select one side of
first thing to do und
the field as a base line a nd rum a stright row of stakes
is not too large a line of stakes across the other end will be of assistance. The wire can then be used to mark Having placed 1 . go, these should be lined up where this is necessary before
It should be unnecessary to remark that the soil should have received thorough preparation previousto lan be worked in and pressed firmly about the trees. It is quite true that labor is very scarce, and that prepara Hon of the soil costs now much more than it formerly
did, but at the same time nursery stock is scarce and It should be remarked also of course, that different arieties will require different distances of planting. The size of the individual tree or variety when mature should be the guide to the distance of planting, and the being as economical as possible of ground. Such varieties as Baldwin, Snow, Golden Russet, Graven-
tein Greening, King, Mclntosh and Spy are all strong krowing varieties in, Mclntosh and Spy are and setter apple sections, and should be planted no less than thirty-five and preferably lorty feet apart each way On the other hand, the
Ben Davis, Alexander, Blenheim, Hubbardston and Stark are more moderate growing and may be planted somewhat closer together, but under no condition less
han thirty feet apart. Duchess, Wagener and Wealthy, han thirty feet apart. Duchess, Wagener atten planted o utilize the space more thoroughly while the orchard is young, but which should be removed as soon as the standard varieties reach maturity and require all the pace, are smalier growing,
On the whole, spring planting is undoubtedly the best, but there is no objection to fall planting if trees can be secured in the fall that are fully matured. Planting is at the very least a two-man job, and three men in
be used to excellent advantage after the orchard is laid out and the trees are on the ground. In this connection it is well to point out that trees should not be allowed to lie on the ground with roots exposed for any length
of time. A few trees may be distributed ahead of the of time. At few hithe hut no more on the ordinary day than a bundle, say, of twenty-five. The remaining bundles necessary for the orchard should always be heeled in, as shown in the accompanying illustration To do the shovel and to lift a bundle of trees requires no extra work. The best method of procedure in actual planting is to use a planting board, such as is shown in the second illustration accompanying this article This board is placed at the stake where the tree is
be, with the stake in the centre notch where the tree is now standing. Two pegs are provided to fit holes in either end of the planting board. The board is placed in position around the stake and pegged down The board is then placed back in postion and the tre inserted as shown in the illustration. It will be notice from this illustration that the tree is being set one or two inches deeper rimo the grous the union betwee the bud and the stalk, which is very noticeable on all trees and is situated only a few inches above the root is will be noticed that the side branches have all been removed from the young tree leaving only a whip Part of the roots are also removed, especially of all tap Toots that are of any size. Remove, in addition, al
brol broken or injured roots. Aiter the orchard is all planted the trees can be headed back the desirably, depending
will vary from 18 to 24 inches prerable
upon the height at which the desired arrangement of

much in setting the trees
Note that the tree is placed ready to be covered with earth.

buds can be secured that will eventually form a strong
whorl of main branches without the presence of jurious crotches
When the tree is set, some little slant should be given
to it in the direction of the prevailing winds. If the
winds are no but if they are heavy the particular slant is nceessary, be influenced to a surprising uprightness of the tree will so that eventually the tree will stand upright. The
hole prepared for the and deep enough to accommodate all be large enough and them to be spread out in what might be spoken of as a comfortable position. Where three men are used, one man can usually dig the holes and distribute the trees, of equal size and set the with another planting board member that the ground should be tramped thoroughly about the roots, and that fine earth should first be put about the roots so that they may get a start. A great planted firmly enough because they have not been planted firmly enough. Above all things, have the
trees planted firmly enough and have the rows straight.

## Potato Growing in 1920.

## What is the outlook for the potato crop in 192

 If one could the outlook for the potato crop inwuch wiser he
nen
 crop waum when in one part of the country the potato
crort, a car of Quebec.grown potatoos was Crop was ishort, a car of Quebec-grown potatoes was
brought in, and many farmers bought supplenentary
stotk stock, and some of it was for seed this vear. It was suggested to a farmer, who was somewhat short, that themf for about 81.50 per beak, when potatocould have would likel
 prevailed potato-growing tistrict where very good crops
 for Cobblers. (one of them remarked, "Oh, they will
 back their crop for $\$ 5$ per bay ar het of farmers holding te true with regard to his locality, bute he difint knigh When it is senerally or foaltic potato distritenerenaly k kown that some early producing
Irosts in surcess in he south had been visited by three Fastern Canadid Ior and that U. S. buyers were scouring on hand, it might be geood policy to enlaree the thay carry potatoes, especially as there is bound to be a a agoa to
demand for them when are thus aftemem when the early supplies from the States
well. It is overooked by the ecchange situat in as



 dist ricts there is likelly be a alate. acreane sutrante potato
this wear. It will well repay the the krowin




 most proft. (Good potato soil is good sweet clovere syir)
and these crops go well together. Some flamers anc

## FARM BULLETIN

Will Fight Tuberculosis in Canada's Live Stock

The deliberations were marked by harmony and earnmeeting feeling that a very forward step had been taken both in regard to disease control and a better understanding between producers, packers and Department. The suggestion was even made that such a board should
be permanent in nature and meet two or three times annually to discuss all matters peculiar to the live-stock industry

## Grass Seed Quotations

## During the last couple of months there has been con

 for clover seed and what other farmers have been obliged to pay when purchasing from the dealers on theretail market. The difference has been sufficient to arouse a suspicion of profiteering on the part of somejust where t be found. In an effo:t to cbtain an explanation and
be to facts regarding the , matter, a representative of "The Dominion Seed Commissioner, who gave the following explane enormous demand for clover seed existing here and in the United States drew supply from Europe chiefly Italy and France, which countries, owing to the New York funds, were willing accepting payment i clover seed to America. This began to pour in early in March, and brokers at once began to circularize the retail merchants, offering imported seed at quite reduction on what the merchants had paid for the stock
they had accumulated, from which demand would be met. This created a spirit of seedin ness in the retail trade, and retailers put forth greater efforts to dispose of their stocks. Then, as seeding was finished in the Southern States, the carry-over was back on the big markets, such as Toledo and Chicago The Canadian seed trade accepts Toledo as a guide in easy to understand how conditions in the United States are soon reflected in Canada. The result was that
clover seed on the basis of October and November delivery slumped in price, and seed in farmers' hands seedsmen have of on the fall delivery valuation. The stores accumulated last fall and cleaned throughout the on account of a considerable suyply bearly ing the on the absorbed the large buyers operated yery until that was kist of the whole matter is that the influx of seed fron supply in farmers' hands generally dammed back the unsaleable for spring see ling. For the last few weeks basis of autumn delivers' hands has been valued on a
by current quotations the value indicated The Commissioner's explanation would lead one to farmers wishing to buy, should get together and and deal
co-operatively. o-operatively. In this way sellers would be more likely

## Sessional Indemnities Up in the

Legislature



ccasion of an announceree, supply, made this could not see fit to grant the increase, adding that it
would not be discretion to increas would not be discretion to increase, the sessional in
demnity of members at the first session of His thought apparently was that expenditures of ont. ments in the early part of the life of the by Govern. in the hope that the voter will forget about therliament; have my election. Premier Drury said, "the mefore have my sympathy in these days of the high cost of find what the people go back the the constituencies and an indemnity and not a salary might point out that it is ward in the honor ant pris ilege of serving one's some rein the indemnity." The Premier' consider the increas. right that the $\$$. The remier's contention is no doabte salary, but "The Farmer's stand both with regard to the House has taken the should at least Provincial Legislature that an indemat cidential leas be sufficient to meet the expenses in. and to at least pertiap in these legislative bodies, loss of time in attending to his own duties member for is not lasge of money thereby. Where the indemany who is lige enough to meet these requirements the mand business cannot of the people. It is well known of legislative bodies fuod men cannot afford the time necessarse, that many and in withol Premier Drury is, we believe, fully justifed measure which would practically present time from a of our legislators, we are at the same duble the salaries propsonal indemnity of $\$ 2,500$ is by no means dis Many tionate to fair indemnification of members lature usually my feel that since the Provincial Legis$\$ 1,400$, or $\$ 200$ per aremnify any member of the House. The chand first however, that these same people will be among the of any expect their local member to attend every event the first to subscribe to community, and to be among riding. The unfairness of expecting the rased in his course, obvious, but as long as people are people, the it in some gets their votes will be expected to pay for to spend during the course that the more he is expected House, the more he is entitled to receive of thip in the money. It is a noteworthy fact that of the peoples presene only men who can honestly be satisfied with the it fair amdemnities are those men who have at least House out of motives world's goods. Few men enter the are ready if satisfactorily treated to give the best service the fact that if the people. insist on paying a mininimum indemnity to members, they need only expect the minimum of results from these members
During the

## During the week, important alterations in the Wherkmen's Compensation Act were brought before

 the House, when the first meeting of an amend-ing bill was asked for by the Honorable Walter Rollo, Minister of Labor. Funeral allowances are me increased from $\$ 75$ to $\$ 125$. The monthly paymcreased from $\$ 30$ to $\$ 40$ per month. The additional $\$ 7.50$ to $\$ 10$ per month, while an increase from $\$ 10$ to $\$ 15$ per month will be made in the case of children who are the sole dependents. The monthly allowances
to dependents other than widows, husbands or children are increased from $\$ 20$ to $\$ 40$ per month, while increased compensation to injured workmen amounts to 75 instead of 55 per cent. of the wages. The Minister paid by the employers the injury takes place, and the increase in the
present allowance will have to be borne by the same people who are at present paying the compensation. provisions become operative sixty days from the giving of

Participation Certificates Worth 40
James Stewart, Chairman of the Canadian Wheat
James Stewart, Chairman of the Canadian Wheat
Board has announced that participation certificates Board has announced that participation certificates
will le worth not less than 40 cents per bushel which
will add considerably to the selling price already obtained. The official statement of the Wheat Board "The Canadian Wheat Board feels that some idea should be given as to the probable value of the particihas not all been marketed by the farmers, and it is indeed difficult to estimate closely the quantity remaining in lactors enter into the situation, such as the values prevailing when and as the wheat is marketed, as well as
the quantity required for domestic use before the new top, a late harvest making a difference of several mil
ion bushels.
"Notwithstanding this, the board estimates that it
whould be able to pay at least 40 cents per bushel against

Toronto, Montreal, Buffalo, and Other Leading Markets
Week Ending May 6.

| Toronto U. S. Y.) <br> Montreal (Pt. St. Cha Winnipeg <br> Calgary |
| :---: |

Receipts and Market Tops.

 hogs and 5,619 sheep, received during
the corresonding period of 1919.
EAST END.-The total receipts from anuary I it April 29 , inclusive, were: and 4,265 sheep; compared with 13,032 cattle, 14,818 calves, 11,797 hogs, and coll
, sheep
received responding period of 1919 .

## Buffalo.

Cattle.-Cattle market started out or close. Western receipts were had its effect on the eastern markets where prices wound up from a quarter to a half lower than for the week's open-
ing, which was around a half dollar ing, which was around a half dollar week, placing the close of the week's trading at about where it was wer the
week before. Best hhipping steers sold week before. Best shipping steers sold
last week from $\$ 13$ to $\$ 14.50$ but the last week from $\$ 13$ to $\$ 14.50$ but the
general run of shipping cattle were better progressed Chicago showed unusually strong runs and this was felt on the local market, Friday and Saturday finding killers applying the knife deeply. Trade continued bad trade is being and a milk cows and springers. Offerings for
the week totaled 2,225 head, as against the week totaled 2,225 head, as against
4,750 for the previous week and as a,
against 4,800 head for the week and as
week last wesponding week last year. Quotations: Shipping Steers - Canadians - Best to \$11; mediu 12 , fair to good, \$10.50 common and plain, $\$ 10$ to $\$ 10.50$.
Butchering Steers - Yearlings, goo
orime, 12.50 to $\$ 13.25$; choice heavy $\$ 11.50$ to $\$ 12 ;$ best handy, $\$ 12.25$ to $\$ 13.25$ fair to good, $\$ 11.50$ to $\$ 12$; light and Cows and Heifers.-Heavy heifers $\$ 9.50$ to $\$ 10$; to $\$ 9.25$; fair butchering heiferers, $\$ 9$ to $\$ 8.50$; light, common, 86 to $\$ 88$, very
fancy fat cows $\$ 10$ to $\$ 10.50$, best hery fat cow, $\$ 9$ to $\$ 9.50$; medium test heavy,
$\$ 7.50$ to $\$ 8.50$; cutd, canners, good, $\$ 4.50$ to $\$ 5.5$. $\$ 50$ to $\$ 6$; Bulls.-Best heavy $\$ 9$ to $\$ 10$; good
butchering, $\$ 8.50$ to $\$ 9$. sausage $\$ 8$ to $\$ 8.50 ;$ light bulls, $\$ 7$ to $\$ 8$. sausage, $\$ 8$ to $\$ 9.50$ to $\$ 10$ common to fair $\$ 8$ to $\$ 9$; $\$ 7.75$ to $\$ 8.25$; common, $\$ 6$ to $\$ 7$.
 Hogs. - Receipts, as a result of the
switchmen's strike, were somewhat lighter last week, grand total being 13,700 head, as compared with 38,241 head for the
week preceding and 21,000 head for the same week a year ago. Monday severa
decks of light hors went to at $\$ 16.25$, few $\$ 16.35$, however buyers $\$$ tade their buy on the handy grades at $\$ 15.75$ and pigs landed generally $\$ 15$ to Tuesday light hogs were up 10 to 15
cents, with pigs sellin hesday the market was still higher top being $\$ 16.75$. Thursday handy hogs
landed at $\$ 16.25$ and $\$ 16$. 50 . anded at $\$ 16.25$ and $\$ 16.50$, with piriss
$\$ 15.75$ and Friday heavies sold at $\$ 1510$ light grades brought mostly $\$ 16$ few yorkers $\$ 16.25$ and pigs moved at $\$ 15.75$.
Ruoghs around $\$ 12.50$ and stags $\$ 7$ to
$\$ 8550$.

Sheep and lambs-Monday yool lannbs
sold up to $\$ 22$ with best clips selling
from $\$ 19.50$ to $\$ 20$ and teneral from $\$ 1.50$ to $\$ 20$ and general range
on cull shorn lambs was fron 815 dogn,
skips guing as low as $\$$. Tuestav,'s.



4,950 head, as compared with 8,715 head for the week previous and 8,
head for the same week a year ago.

## Toronto Produce.

Receipts of live stock at the Union Stock Yards, Toronto, on Monday
May 10, numbered 208 cars, 3,735 cattle 1,821 hogs, 398 sheep and lambs. Steers and heifers were barely steady. Best
steers weighing 1,100 to 1,300 each, sold steers weighing 1,100 to 1,300 each,
for $\$ 15$ to $\$ 15.50$ per hundred. Best baby beeves went at $\$ 15.50$ to $\$ 16$. Choice butcher steers and heifers were
$\$ 14$ to $\$ 14.75$. Cows were strong; tops $\$ 12$ to $\$ 13$. Bulls were strong; best
$\$ 12$ to $\$ 13$. Calves were weak and $\$ 2$
$\$ 2$ $\$ 12$ to $\$ 13$. Calves were weak and $\$ 2$
lower. Best veal was around $\$ 15$.
$\$ 1$ wool sheep were $\$ 15$ and clipped $\$ 13$ to $\$ 14$ per hundred; yearlings lambs (woo on) were $\$ 18$ to $\$ 20$, best spring lambs,
$\$ 15$ to $\$ 16$. Hogs sold at $\$ 20.25$, fed and $\$ 15$ to $\$ 1$

## Breadstuffs.

Manitoba Wheat. - No. 1 northern northern, 82.7
Manitoba Oats.-No. 2 C. W., $\$ 1.191 / 8: ~$
No
3 \$1.161/2; No. 1 feed $\$ 1.141 / 8$ : No 2 feed Manitoba Barley. Io. C. W \$1.811/2; No. 4 C. W., $\$ 1.661 / 2$; rejected Ontario Wheat.
points, according to freight o. bo. shipping $\$ 2$ to $\$ 2.01 ;$ No. 2 winter, $\$ 1.98$ to $\$ 2$ No. 3 winter, $\$ 1.92$ to $81.92 ;$ No. 1 spring,
$\$ 2.20$ to $\$ 2.03 ;$ No. 2 spring, $\$ 1.98$ to \$2.01; No. 3 spring, $\$ 1.95$ to $\$ 2.01$. No. 3 yellow, nominal, $\$ 2.20$ shipment Ontario Oats.-No. 3 white, $\$ 1.05$ Barley-Malting, $\$ 1.85$ to $\$ 1.87$. Buckwheat. -No. 2, $\$ 1.75$ to $\$ 1.80$.
Peas. - No. $2,83$.
Ryve. - No. 2, nominal; No. $3, \$ 2.15$ to Rye.-No. 2, nominal; No. $3, \$ 2.15$
O20.
Ontario Flour - In the jute bars prompt hhipment, Government standard,
$\$ 10.90$ to $\$ 11$, Montreal: $\$ 11$ to $\$ 1.10$, Toronto. Track, Toronto; No. 1, 830
Hay.
H3i. Track, $\$ 16$ to $\$ 17$.
 $\$ 51$; shorts, $\$ 58$; good feed flour, per bag,
$\$ 3.75$ to $\$ 1$. $\$ 3.75$ to 84. Farm Produce.
Butter.-Butter was slightly easier on
he wholesales this week, rresh-made the wholesales this week, fresh-made
creamery pound prints, being quoted at
66 c . to 68 c . per 1 l . fresh solids at 65 c to

## 67c. per lb. cut solids, 61 c . to 64 cc . pe lb. and hest dairy

Eggs.-Eggs kept firm a a about tsa-
tionary prices wholesale, selling at 54 c ., to
55 c .
Chees..Cheese advanced; the old
selling at 34 c . per 1b. and new at 32 c .
seling at 34 cc . per 1 lb ., and new at 32 c .
per lob. wholeale.
Poultry - - Receeipts
Peultry,-Receipts continued to b
very light, and prices kept stationary
Poultry prices being pait


## 



## Hides and Skins.

Hides, fo. b, country points-Beef
hides, flat cure, 18c. to



$\$ 31$ to $\$ 32$; No. 3, per bushel, $\$ 29$ to $\$ 30$; sweet clover; No. 1 , fancy, per bushel,
$\$ 22$ to $\$ 24$; choice, per bushel, $\$ 18$ to $\$ 20$. Seeds Retail.
Dealers quote clover and other seeds as follows:
Red clover, No. 1, per bushel, $\$ 48$ No. 2, per bushel, \$45.60; Alsike, No. 1 $\$ 46.20$; Alfalfa, No. 1, per bushel, $\$ 39$; No. 2, per bushel, \$37.20; Canadian, per bushel, $\$ 29.40$. Tweet climothy, No. 1, per bushel, $\$ 11.28$; No. 2, per bushel, $\$ 10.32$
Wholesale Fruits and Vegetables.
Receipts have been fairly heavy this past week, and trade active at firm prices,
excepting on new vegetables which have showed a weaker tendency.
Potatoes are still going skyward, and of famine here before the new ones arrive in any quantities.
Old vegetables are practically off the market; only a small quantity of carrots and turnips being offered.
Apples.- $\$ 6$ to $\$ 8$ per bbl.; Western, Apples. $-\$ 6$
$\$ 4$ to $\$ 6$ per box
Beans.-Dried white hand-picked, $\$ 5$ per bushel.
Cabbage. $\$ 6$ to $\$ 7$ per bbl.; $\$ 7$ to $\$ 7.50$ per case.
Carrots. $\$ 2.50$
3.25 per hamper per bag; new, $\$ 3$ to Celery-Florida, $\$ 8.50$ to $\$ 9.50$ per Lettuce-Leaf, 30 c . to 50 c . per dozen;
Canadian Head, 90 c . to $\$ 3$ per doz.; Cal. ceberg, $\$ 9$ to $\$ 10$ per case. Onions.-- exas, $\$ .5050$ per bag; seed,
$\$ 7$ per bag. $\$ 1.50$ per bag.

## Chicago. <br> Cattle.-As compared with a week ago: Heavy beef steers and heavy fat cows, steady to lower; medium and light weight, steady to lower; medium and light weight, 25 c . to 50 c . higher; some yearlings up more; canners, 25 c . higher; calves, 25 c . to 50 c . lower; stockers and feeders, Hogs.-Light and light butchers, $\mathbf{\$ 1 5 . 1 0}$ $\$ 14$ to $\$ 14.75$; pigs, steady to 25 c. lower; bulk, 100 to 125 pounders, $\$ 1375$ to \$14.50. Sheep.-Prime, 90 pounds, shorn lambs, $\$ 19.10$. Compared with a week ago: $\$ 19.10$ Compared with a week ago: Shorn lambs, 75 c . to $\$ 1$ higher; wool

## Victory Bonds.

## Bonds on the Toronto market, Saturday <br> 98 ot 99; Victory Bonds maturing 1922, 1923 , 98 to 99 ; Victory Bonds maturing 1927 $981 / 2$ to $991 / 2 ;$ Victory Bonds maturing $1933,981 / 2$ on $991 / 2 ;$ Victory Bonds mataring 1937, 100 to 101. <br> Influence of a Shorthorn Sire.


their favorites,-G. E. Day, Sec, Domin.
ion Shorthorn Association.

The Potato Crop. (Experimental Farms Note. The potato is one of our most importait
food crops, and yet it is one that rood crops, and yet it is one that very
often does not receive the thention should. It is receive the attention it farmers to leave the planting of many until practically all other crops arein With the exception of, perhaps, some parts of the Maritime Provinces this the planting means a much smaller vied wan there would be if the planting widdle of Mare the midale or by the or beginning of June the end: of May have sprouted so much when these ane broken off at planting time the nem shoots will not come on with the same Furthermey did early in the season. potato to get a good root system befor the hot weather sets in.
good seed. Two lots of seed of the same variety which look very much alike may give a difference of three hunded or more shown in experiments at the Experimental Farm, Ottawa. In 1919, for instance,
one lot of Irish Cobbler yielded at the one lot of Irish Cobbler yielded at the 37 bushels per acre. The beat Green Mountain stock yielded 330 bushels per acre and one of the poorest 46 bustels per acre.
If possible, one should know where the seed was grown the previous year that
he is about to use. If it came from a crop, the plants of which grew vigoros, usy until cut down by frost,
then, if free from disease, it will as a rule, yield a much better crop than ifitis in the middle of summer and the tubers lay in hot soil the rest of the seasson. This year when the price of potatos is so high there will be a temptation to small potatoes come from a good crop the previous year the results are likely to be satisfactory if the season is favorate,
but if they are from a small crop the but if they are from a smalt crop tup
previous year when the plants dried up early the plants this year are likely to be weak and the yield not very good. Good ounces have been found the most satibaactory taking one year with nuticlarly although if the seasorable smaller sets will produce a good crop, but one cannot tell what the
season will be hence it is better to be season will be, hence it is better to be on the sate sice.
The distance of planting which has places in Canada is, rows two and a hall to three feet apart and sets twelve to fourteen inches apart in the rows. While quite shallow planting lias giva it is highest average yields at ortawa, it is
necessary to plant about four inches dep for field culture to enable one to harrow
before the potatoes are up without pulling up the sets. The varieties which have been most Cobbler as an early potato and Grean Mountain as a main crop or later variety. Other varieties which cannot be distinguished from Green Mountain group are Cold Coin Uncle Sam, Wee MacGregor and Delaware. The Dooley of the Rural group has done well in coast


New Date for Angus Sale.
The Aberdeen-Angus Sale which was scheduled for April 20, at Albany, N. . .ill
but postponed because of the strike, will be held May 19, at Troop B Armo-s,

## The Best in Canada.

Editor "The Faruer's Advocadvocate" I consider "The Farmer's Advoct the
the best farm paper ine ranada at
ne alone being worth the money.

I tip to see oi
Itip thd sind th
Ant
The song that
The song that
Leaps singi!
Leapet go ni
My feet
The fragrance
And the sw
Float in from
Float tontaliz
Oh, you are
And life to
For you love
And it's a

Making
Pleasant


## A Day in May

 By Rrthele No In our mountain shanty ${ }_{\text {tip }}^{1}$ tip to see our babyAnd find that she's asleen The song that's in my heart
Leaps singing to my lips, My feet go nimbly dancing
On their many little trips.
The fragrance of the wood bine
And the sweetness of the rose Float in from the garden
To tantalize my nose.
Oh, you are young and I am too. for you love me and
For you iove me and Mave May,
And it's a day in Contemporary Verse.

Making the Back Yard Pleasant and Profitable.
Usually the soil in the back yar mould of an old-time chip-yard is there washday suds have been thrown upon it the grass and (whisper it gently) weeds and left a rich residuc of fine black earth all ready to be turned into beauty and use But on many farms the invitation is
not responded to. Too generally the not responded to. Too generally in
plot is eft in grass , indifferently attended to-for who has time to bother with the
back yard in the busy season? Sometimes it is adorned with old barrels, olft trumpery of other kinds, and slop pails.
Really it doesn't take very much time during the summer to have the back yard

- which one sees more frequently than any other spot about the place-both useful and pleasant to look at. You
need not break it all in, you see, unless you are such a lover of 'flowers that you which case you are likely to have it
already laid out according to pattern
in lower beds, with neat gravel walks in flower beds, with neat gravel walks
between. If you are too busy to attempt such huxuria
about the edg.
and
and kep up ap a sucession of sowings,
everry two weeks. The lettuce is pretty in itself, and having it so handy will
save you many a trip to the vegetable garden during the buss summer days
when every step counts. Other plants parsere both beautiful and useful are
parsly, sage, garilen cress, summer savory and thyme. If you get into the
way of putting two or three sprigs of parsley on the plate of cold meat for
garnish, cutting a little of it into stews and soup, or putting some of it, chopped
very fine, over omelet you will appreciatet having the plants srowing near the doorstep. Many people
too, like a little sage cooked with fried potatoes as well as in fowl dressing and
dressing for "mock duck" (made, as you know, with round steak). All of
thes plants may be tucked into the
border between clumps of flowers, as may also radishes ands oother thingers, you an think of. Nothing can be prettier
in a border than clives, small onion-like pants very nice to use anywhere green
onions can he uscol use and
You can train very economical of space
up against the tenatoes and cucumbers pp against the fencer, which is casily done
by fiving them a roughly-made inclined
vellis upon; made of laths or slats to climb
taverably you will prefer to
thase in the have these in the vegetable garden.
Now for the flowers: Behind the bright little old lady lo do, and soon the
usefulying the thants the

show much the first year, but become
more and more beautiful every year I think you will want some "old man" n your back yard garden, and perhaps; buttons") to give it old-time company Also there will be clove pinks and mig nonette for sweet perfume, phlox drummondi for long and steady bloom, and well as for their beauty in the garden. If there is a porch to be covered, or an ugly fence that needs screpning, Japanese hop, Dutchman's Pipe, or kudzu vine ("Jack and the Beanstalk") will do splendidy, as ane grow very may be covered with old-fashioned scarlet runner beans, which are excellent for cooking, either when ripe or green. criss-cross lattice above the fence, the whole covered with vines.
If one is anxious to have a "feature". in the backyard, a skilfully built rockery may occupy one corner; do not put 1 ,
out in the grass plot. In it plarit sedum, moss pinks, edelweiss, sweet alyssum, etc., with periwinkle, ferns, forget-menots, trillium and anemone at the base. tub A differen sot-of-the-way corner, tub sunk in an out-of-the-way corner,
with water-lilies and arrow-heads from the creek growing in it and tall grasses and iris at the back. A few little fish in the tub will keep mosquito larve eaten up. A dead tree on the edge of the backmatter. does not need to be cut down; transform it into a thing of beauty by creeper and trumpet vine. Also cover up the ugly bareness of the clothes-reel post by training m
srarlet runner about
There will not be much trouble about keeping the grass in the back yard from growing too high;
It is not yet too late to plant roots
of perennials, if the work is carefully of perennials, if the work is carefully
done, or to sow seed. A "spare" day
may provided an opportunity

The Twilight Flower Garden
$\square \mathrm{HE}$ S. family are very fond of broad porch fitted with comfortable chairs, two small tables and a swinging seat. There is also a broad shade, which makes sewing of reading possible on warm evenings from
June to September. But often the lamp is not lighted, and the family and thei
friends just sit about and talk, and look friends just sit about and the moon and stars, and are thank-
out at
ful that the roads near by are real country ful that the roads near by are real country
roads, not dotted with hard little points so distracting that when they are about people forget to look and
lights of heaven. The S folk are very fond fact that lovely though the night is, it submerges
the beauty of dark pink roses, and purple pansies, and larkspurs more blue than the S. One day a brilliant idea came to not have a twilight garden In other words why not intersperse ther
usual flowers of the garden with others perceptible both by col or summer?
the garden. When looking out over the
dim starlit lawn. once a blur of gray lost in the blackness of shrubbery and
trees beyond, one now saw clumps of white gleaming along the borders, and caught a variety of sweet odors as Tall white phlox provided both color and perfume, and attracted to itself, as "lady birds"-that hovered like humming birds before the musky-scented blossoms. White asters gave a lower line of white-with white candytuft and low-growing sweet alyssum. . While
looking at these one caught a perfume different from that of the phlox, and looking towards a different "art" saw another tall clump of whit -nicotiana affinis, very sweet-scented, and also a great favorite of the hawk-moth. Nico-
tiana affinis, by the way, is excellent as a cut flower, if kept away from sunshine. Cuttings of the plant may be taken in September and started in pots for winter blooming.
In other parts of the garden, to keep
up a succession of white and sweet up a succession of white and sweet
scents, were planted Madonna lilies
(lilium candidum) (lilium candidum), pale evening primroses, white peonies, and, close to the
porch, white funkias or day lilies, whose leaves are always beautiful, and whose white flowers have a very delicate perfume that suggests, somehow, the early spring -makes one think of the hepaticas Clambering up the porch, too, gleam. ing in the moonlight, was a moonfl wer vine, with its attractive leaves and flowers that resemble somewhat, white morningglories. As the seeds are very hard to
start, and have even to be filed to get them to start at all, this vine was considered a great triumph.
To add to the perfume-scheme, a
bed of mignonette was placed where bed of mignonette was placed where
breezes from the west would carry its delicate evanescent odor to the porch,
nor were English violets forgotten for early spring. And Mrs. S—considered garden when she heard of a nisht-blooming stock, with the imposing name
Matthiola bicornis. People who saw this stock during the day wondered why Mrant in her garden, for the gray-green sat on the porch in the evening, and caught
the wonderfully sweet perfume from it as ts purplish-lilac blossoms unfolded, they wondered no longer, but thought the
names of the plant very appropriate "night-smelling stock," and "sweet scented stock. botanical name was appropriate also, since "bicornis," signifying
"two horns" had been chosen as the specific name because of the curious two-
horned seed pods that succerd the flowers Matthiola bicornis is of no use for the day garden, but it is delightsul
twilight garden. Its seeds may be started in the hothed, in boxes in the house, of
in the open: after the first year it "self Meechs. S had many other flowers, day flowers, in her garden, which deals primarily with those species which made the spot, as someone said

The Frost-Proof Garden.
$I^{S}$
collapsed at the first onslaught of the
enemy. Along the edge of the fower borders the heliotorope lies fat and oluck
The castor bean that soread its leaves The castor bean that spread its leaves
out so tropically yesterday looks liftle out so tropically yesterray cooks little
more valiant than the coleus. The balasms are worse, In a day or so the whole collection will be black and "dead as a doornail."
Now it is possible by exercising some Care in selection, to have axerising some
wiil be a attractive almost thatid en that -not that the tender plants should be entirely omitted, but that they should be so interpersed with hardy specicis that when the rrosts come their poor blackout leaving great desolate voids along the border. Among the very hardiest species Among the very hardiest species,
practically frost-proof - are: The African marigolds that glow like miniaure suns until the very end of October daisies") which are beautiful in any garden; the late phloxes, golden rod (another native plant very effective in the garden); some of the sunflowers variety of rich colors, and the supremely beautiful Japanesc anemones, with lovely waxy white and pink flowers. Swee alyssum, also, lasts better than helioare as faithful as old dog Tray.
A number of others will last through A number of others will last through light frosts fairly well, and even com-
paratively late in the season if given paratively late in the season if given
a light covering. Among these are cosmos, salvias, ten-weeks-stock, core-
opsis, bachelor's buttons, candy tuft, snapdragons and nasturtiums. It is wise to plant salvias and nasturtiums
in a place where some shelter will- be afforded in the fall.

## Your Health

## Fats. (Continued).

$W^{\text {E. were talking about fats and their }}$ effect on the hydrochloric acid of the stomach juice. Fats lessen
his important acid and, for this reason, are "hard to digest." If you eat salt along with the fat you can overcome to a certain extent the lessening of the hydrochloric acid. (and most people eat too much salt rather than too little) you will suffer from heartburn or sour stomach,
because the salt ( Na C ) has produced It is interesting to watch the conk add acid acetic acid or vinegar. In making salads she uses olive oil or salad oil, and then to make it more readily digested she adds vinegar. Instead of
vinegar some use lemon juice (which is sour because an acid is present). Salt
is usually eaten along with nuts because the nuts are oily and hard to digest. Salted peanuts, salt in butter, are othe examples. When you give a course
dinner upon a "state occasion" you will have fish-just a taste-for your second course. Now fish is greasy, and the so you put a slice of lemon on the pla+e with the fish and expect them to squeeze the acid juice on the fish, and so save
their digestion for the remaining three or four courses. You can think of a whole lot more examples if you watch the Then if the baby, or "Dad" has a soda is your remedy, and it is practically harmless. How much would you give a baby for "gas on its stomach?" II told
didn't tell him how much. The op
portunity arrived at last. Jock was a portunity up with colic, and Billy (that's teaspoonful-and Jock only six months old:
What happened? Nothing. Jock was relieved and soon fast asleep. But of it poor Billy was told that after he had raiscd a dozen or so of children he would know better than give a wee tot
like Jock so much soda. "It was a wonder like Jock so much soda. "It was a wonde
it didn't eat a hole in his stomach." Anyhow Billy is firmly convinced that
soda is a good remedy for colic. Soda does not cure the sour stomach of us want. Soda does not remove the cause. In babies the two most frequent
causes of colic are: too much cream in the causes of colic are: too much cream in the
food, and secondly. too frequent feedinge If you feed the baby every time he cries he will naturally have colic. If he vomits
he usually feels better. The grandhe usually feels better. The grand-
mother says that is a sign of a healthy baby. I have often said-unkindly than the mother stomach has more sens it is fed too much, but mother does not
recognize the fact that she is the cause recognize the fact that she is the cause
of the vomit because of too frequent of the vomit because of too frequent
feedings. No child over three months of age should be fed oftener than 5 times
in 24 hours: say at 6 a.m. when mother wakes up; 10 o'clock in the forenoon after the breakfast dishes are washed,
the chickens fed, the milk cans washed, the chickens fed, the milk cans washed
the floor swept and the potatoes peeled the floor swept and the potatoes peeled
for dinner; then at 2 p.m., after the
routine of dinner has been gone through. routine of dinner has been gone through; then at 6 p.m.; and the last feeding be10 and 12 p.m. That gives the baby 6 to $12 \mathrm{p} . \mathrm{m}$. till $6 \mathrm{a} . \mathrm{m}$.) and will allow a rest to its nervous system. You must remember that the nervous system in a
babe requires more time for rest than babe requires more time for rest than
any other part of the body; it grows the fastest, and to grow perfectly it requires rest. The children and adults are nervous nowadays. It is probably the result of improper care of the nervous system of the
growing child. Compare the effects upon growing child. Compare the effects upon
a child fed every two hours day and night with those upon a child that gets
only five feeds in 24 hours. The latter method gives "mother"" a rest too. Her quality if she gets 6 to 8 hours uniform rupted sleep of a night. Then, too,
"Dad" should be considered. When he doesn't get his proper sleep his nerves may get on edge too, and that will not
improve mother's nervous system are several more arguments for the longer
interval between feeds. The best arguem tait work

## Hope's Quiet Hour.

Behold! Consider!

## Consider the lifies of the fier than . they?

 He not mucch more e clothe you, $O$ ye oflifticl faith? $S$. Matt. $6: 2: 2 f_{8}^{30}$. The Great Teacher draye our altention Nature -the illustrated book of womlers
provited by the Father for the pleasure and instruction of His children. We.
grow so usect to the wonders around us Even when we not ice some of them, in the truthis they reveal. The flosuvers
spring up mysteriously, extracting bourtisping colors and del delicious pertunes fromil
ful on their new springs sutit, rearallues
of the high cost of living. They do tot

 array by the eanan of toded No onn las
could manufacture the dainty pink and White blosons which are so porket
in texture, solovely and so swect. Silently
and marvellously the fowers beome
fruit, and we accept unconcernedly the
and beautitul and delicious apples, cherries
peaches and manufactured for our use and pleasure by the Wonder Worker. They have come out of the invisible into this room of
God's house. They bring to us health God's house. They bring to us health
as well as delight. Our humble relations -the fruits and vegetables-dig down into the earth and bring up for us many treasures which we are too ignorant to
find for ourselves. We trample the find for ourselves. We trample the
earth beneath our feet, and in return it earth beneath our feet, and countless treasures by the hands spinach, onions and lettuce, turnips and carrots (and many other willing servants) health giving substances are extracted from the hardworking soil and brought
within our reach. And everywhere we find delicate beauty of color and texture, I have planted carrot seed in a pot for the sake of its fernlike beauty. I have marvelled over the beauty of a collection
of seeds in an exhibition. How do the beets extract red and the carrots yellow from the colorless earth? How do the violets, roses and lilies extract their
distinctive perfume. distinctive perfume. hidden in every plant and living creature and you will not have to complain that
life is dull. The picture books of our
Father are not kept in a few city libraries Father are not kept in a few city libraries,
but are scattered everywhere. They cut are scattered everywhere. They
change every day and every hour. Interesting wonders are constantly being produced before our eyes; and every antand the pool at our feet teems with Butiscovered mysteries
But the eager scientist may behold
many wonders of creation many wonders of creation and yet miss Lord's heart was awake to human needs and He understood the message of love
which the flowers were trying to deliver which the flowers were trying to deliver.
Solomon was supposed to have underSolomon was supposed to have under-
stood the speech of animals; but a greater than Solomon has given us the key to
the cipher of creation. The little birds make no provision for the winter, but they sing melodiously about the love of
our Father. "Your" heavenly Father feedeth them, said Christ, "are ye not constant love provides for the birds, surely we can trust Him to give all
necessary and helpful things to His necessary and helpful things to His
own children. Adam was the son of God sons and daughters. God clothes in beautiful robes the buttercup and daisy; for our souls and bodies? You dress a hittle child and give him food; but, when
he is able to do these things, you would only spoil him and injure his development you love him wisely, and desire his
real and lasting advantage, you train
him to do as mult hin to do as much as possible, for himself. Because we are growing up, He refuses Because we are growing up, He refuses
o do for us what we can do for ourselves hall we bane him lar trating wike





 offerel was not the peace inat the whin werr centident thit cind appearances,

Na man$-2$
their roval and responsible position.
So much will depend unon them in th. So much will depend upon them in the
future, herefore they must be traine and educated. They can't be allowed to grow up ignorant and pleasure-loving
Thev must be tausht the value of time and in mutstece ough money and one health
and The greatest lessons of life cannot be
learned in luxuricus id ileness.
The Father learned in luxurious idilenessi. The Father
knows what things His shidren "need", and He will give us what we need, even
thoukh His answer to prayer may seeni though His answer to prayer may seem
txactly contrary to our scling exactly contrary to our asking.
Solomon's 8 loriv was Solomon's glory was coarse and gaudy
as compared with the perfect texture as compared with the perect texuture
of the lilys robes. He was not arraved half so glotriously as "one" ort hese The eround was alaze with wild fowers,
lut the Master did not forct but the Master did not forget the in
dividual fower in the multitude fowers. God clothes each one. The sun, rain and dew bring gitts from Hinu
to cach little fower. Not one is overlooked in the crow
 millions in Europe. A "million" is a
vague word to most of us- to most women, at least. We may be able to eat our breakiast comfortably while we But, if a starving child were set down in the midst of a family of happy children, rush to supply its need Pitying tender rush to supply its need "Pitying tende
ness would care for that "one." God's way of dealing with His children is often hard to understand. When Father shows no sign of caring, we have to rust His love in the dark. But we have no right to judge until we see the final could understand life. If a lily bulh could understand (perhaps it can!) it it was crushed into a hole and covered With earth. But hat is not the mend. ment it could apparently harsh treatlife and beauty. The grain of wheat must die in its lonely grave before it
can rise up to give much fruit to the Before our Lord yielded up His spi rit to Hist Father's keeping, He had looked appointment with the apostles to meet Him in Galilee. He knew that life would go on after death, and made His plans enemy. If death were the end of one of God's children, then we might think His
plan of education had failed. What have we gained that will go with us through the narrow gateway. Money, worldly influence and pleasure, and the greatest side. Character will still be ours and the love of friends can pass through
 Shall all the ambitious struggle of a We bit utterly wasted? We pity the suffering and those we
call the "unsuccossful." The One whose
cres are as a flame of fire peite
ed in purple and fine linen, who
hors. Ife may think himsclf "rices

Mnsider
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s iof
Thumbin

The Ingle Nook
 aimavadubu
 1
 mom and on te max biom dis in aman mod ine he brought she showed where is the woman who does not lont Among the Among the gifts were two kimonos, by One was for summer,, made double of then thinnest, "sleashiest," most shimmering he foam on the crest of a somehow, of or it was so light and feathery sea wave, palest possible green, just one remorim and pure white. The neck, skirt-edec holed in scallops openings were buttone. was heavily hand and about the shoulders design of the very same shad a flower silk. The other kimono was double richer silk, with longer of a heavier, about the lower edge was sleeves. All hand, a broad border was worked, by green reeds and grasses, with tall white, clustered flowers, evidently native to
Japan. White birds resemble were also standing about in the watete, St the of them were flying across the back lamered ano, while about the shoulders shaded pink roses and most exquisitely know all this sounds rather "'toomuch muchness," but, probably owing to the Oriental character of the gown, it looked the beaut. The artists exclaimed over amined the of the effect and we all ercould be so exquisitely perfect. Our Orientals wot that we can teach the teach uts nothing, but that they can facture of silk and the art of embroideryThen we tried the kimonos on, wondering how a work-a-day woman would kimoge with such a flowing robe-for the woman unsnoiled by Warb of the Japanese we discovered by western styles-and turned back and the sash tightly tied
the dress might be much more convenient as well as much more comfortable than "But. wait unt.l you see my shoes""
exclaimed M rs. S., and then she brought exclaimed Mrs. S., and then she brought of white denim, about as high as our boots used to be before they soared up to
be perfectly comfortable, with a separate compartment for the big toe-for which made of white rubber, corrugated on the and the shoes were mercly fastened with a strap, so that when they needed washing One of the artists held up a kimono "Well"" she exclaimed, "compared able and unhealthfu!! - And so they are. We wear stiff corsets that prevent easy movement igh heels and narrow toes that cramp artistic design and keeping to it for a stock model, we go from one extreme to another, and usually the effect is grotesque
or would be if we were not so accustomed
 $-5=$ had to be taken crosswise on the card, skirts so long and tight that we had to
plit them to get room to step, then so hort that ultra moralists hegan to rail ists with indecency of in two points behind the ears, and then
ngle Nook spondence in thit and ote
Kindy write
AIways send name ane and Always send name end ded
nso
not be pen name lo
not be pobllide
be forwarded to nvelorperarded to anyony,
nonth in thity to be
non is to appear. I spent an evening with
sts. The husband of foet
was at Vladivostok, a, with the Canation
he way home stayed he way home stayed fout
not idly, either ro of exquisite gitits juing
i to his wife and wid 5 very delightedly-lor its were tw autiful I have ever sen imer, made double of the hiest,", most shimmering one think, somehoring of
crest of a areen $t$ and feathery, and of the The neck, skitt-elege e openings were button. and about the shoulders ery same shade as the a color and of a heavier h longer sleeves. Ail edge was worked, by
border suggesting siil ter-lilies (white) lying
and upstanding pale grasses, with tall white, ,irds evidently native to pirds resembling storks,
ng about in the wate.
re flying across the rile about the shoulders and green texquisitely and green leaves. probably owing to the r of the gown, it looked
artists exclaimed over e effect and we all exwith wonder that it
quisitely perfect. Our hat we can teach the n, but that they can the art of the manuhe kimonos on, wondera flowing robe-for ti
day parb of the Japane day garb of the Japaneses nat with the sleeves
the sash tightly tied much more convenient
more comfortable than 1 you see my shoses!"
, and then she brought , and then she brought about as high as our
c fore they soared up to kirt, broad enough to the big with a separate eason. The soles wen slipping on a pavement, ercly fastened with en they needed sts held up a xclaimed, "compared tes are ugly, uncomfortare. We wear stiff vent casy wear stiff
movement
vention in. we wear rrow toes that cramp 1 keeping to it for a from one extreme to e not so accustomed grandmothers to the wasts, bustles,
waists, tight skits de that photographs rosswise on the card, ught that we had to oralists heran to rail collars of that went up hey threatened pneur y, furs in July and

Max 13, 1920


## 12 Cents

## Supplies a Day's Nutrition

 A boy needs 2,000 calories of nutrition daily. In Quaker The oat supplies nutrition in well-balanced form. It is rich in nearly every essential. It abounds in needed minerals. It is vim-food, food for growth. For ages it has been regarded as the greatest food that grows.
## Other foods up to $\$ 1.50$

The calory is the energy measure of food value,'by'which all foods are rated.
Note what 2,000 calories cost in other prime foods at this
writing. witing.

\section*{1 Cent <br>  x $\qquad$ It Costs 4 Cents


Cost of 2,000 Calories In Quaker Oats
In Average Meats
In Average Fish - - $\$ 1$

Thus meat, eggs and fish will average some nine times Quaker ats. And many foods cost 20
Not the Sole Diet This does not mean that Quaker Oats
ouil be the only diet. But the oat dish is important, as every
mother knows. It starts the day with It will save so por cent. on your breakthat saving will cut down your averase important as to-day Qualker Olats
Extra-Flavory Flakes This hraut is flaked from queen grains
only Only jut the rich, plump, iavory and yout get it for the asking, without with Removable Cover


## Sweet Milk-Sour MilkButtermilk or Water

Use any of these when baking with

## EGG-0 Baking Powder

It gives you a wider choice of ingredients for cakes and pastry, yet assures you of positive success in your baking.
Egg- O is absolutely pure and efficient - And double acting, that is, its first action occurs in the mixing
or milk in its various forms is added. Alorming the dough to stand for 15 or 20 minutes will give better results. When you put your baking in the oven Egg-0 will continue to
perly baked.
perly baked.
Buying Egg-O in the larger tins is
most economical for family use Egg-0 Baking Powder Co. Limited
Hamilton, Canada



## A Snug, Comfortable Suit

When you slip into a suit of Watson's Spring Needle underwear, you feel "fitted" and comfortable. The action of the body is unhampered by a Watson garment which gives freely when the limbs are active.
All styles, all sizes and in various fabrics for men, women and children.

## Matson's UNDEREAR

he Watson Manufacturing Company, Limite 1, Brantford, Ontario


Boys and Girls
ADVOCATE AND HOME MAGAZINE.

Georpette crepe in January, silk stockings shade or 20 below zero!
-And during all this time the Japanese went calmly on with their comfortable, healthful, beautifully artistic clothing.
One reads, of late, that some of them are adopting Western garb. One hopes that it is not true. Much more reason-
able would it be to hear that Western able would it be to hear that Western
women were adopting the Oriental styles
Last summer a noted Japanese, touring this country to look into its agricultural system, spent half a day in our office. One of our men asked him "what do
you think of American women?" He you think of American women?". He
shrugged his shoulders a bit (unconscious ly, I think) and smiled. "I think," he said try to look ornamental." There was world of meaning in that "try"

Why can't we study to find out a style
that is wholly healthful, and reasonably that is wholly healthful, and reasonably letting the fashion-makers twist manipulate us to fill their own pockets and the pockets of the manufacturers? How many times, in the past have we thrown aside a dress or coat simply
because it was "all out of style", We doing lesc of that now of course We are H. C. of L. demands that things be worn longer. People are "making over" much more than they used to, and a drug raveller tells me that never before did this is along right lines. But why cannot each of us go a step further and select the kind of dress that is most hecoming
to her especial "style of beauty," then keep to it, forever more beauty," then keep to it, forever more, or, least, a different design is demanded? For instance the "chemise dress" is very becoming to some, and a very practical, sensible design it is, approaching the
Oriental styles more closely in Oriental styles more closely, in many
respects, than any other. The smock worn over a skirt fastened to an underwaist to throw the weight from the
shoulders, is another simple, not inartistic. style that seems to suit certain
people. Some of course, really need a fluffy ruffles" effect, others look
best in plain and tailor-made effects Why not fix upon the style that suits.
best, the right length of skirt to suit onc's height and figure, the very right size and shape of hat, then, as noted above, keep
to it? Difference in color and materiat will give variety enough to prevent
brcoming too tired of any design. I've an idca, of couise, that we would
all look best in rich, soft, flowing, beautiall look best in rich, soft, flowing, beauti-
fully colored robes such as those which
have tumbled into have tumbled into my triends wardrobe,
and which she intends to use for negligees
(if they were mine I think I should them in a glass case). In fact I ran be reasonably sure we would all look better
becausis didn' I see the three artists
so arrayed,

kimono in this contradictory Western
rivilization; one might be arrested, even
ling
y in skirts half way to their linees and


"Chicago hat a suffrage fashoon
(whitito, whe the were to figure in the
surprise that the woman of to-day is a
different creature physically from here
anconerg of fifty vars ago. Not a



| $0.1$ |
| :---: |
|  |  |



Worth Thinking Over.

cleanline modern woman's fetioh
cleanliness. Show her the fetish in
things for daily use that shevetict things for daily use that she cannot cleanse and she will have cannot
them."-House-Furnishing Reviene of
'No woman who wears the high
heeled shoe that is being foisted
upon the female public to upon the female public to-doisted retain her vitality, figure and personal magnestism."-Edna E. Eowe, Physil

Wedding Queries
For "Miss Pioneer
Making a "pionee
Making a "pioneer" trip into marita
realms, are you? Lucky you realms, are you? Lucky you are to be
setting out in June. Since you are to have so few people
at the wedding why have a luncheon? Why not let everybodyp. down and be comfortable, either at one long table, or at small tables, the largest If people only would the bridal party? a law of the Medes and Persians to be formal at a wedding, that simplicity gives dignity, and that convenience should even in regard to weddings! so very small a wedding the bridesmaid dispurse with a vei! altogether If she wears one she may change her dress and remove the vell later in the evening; it on all the time. The duty of the best man is to help the groom in any way he can, relieve him of any smal' responsibiafter his gloves and hat to, e. g. looking, ring at the right moment, gresenting the to the clergyman, seeing to luggage, etc. The bridesmaid performs equivalent duties lor the bride, helps her to remove her
glove when the ring is to glove when the ring is to be pat on,
holds her bouquet, etc. The bride should not be seen until
the ceremony. Usually the beidesmaids go in first to the altar, the bride going church wedding ) away from it (at a wedding a similar procedure is followed before the ceremony. Afterwards the
bride may stand in her place until "best wishes" are over then lead the way to the dining-room.
Since the walls need screening, could you not festoon them with evergreen in by the first of June lilacs, etc., -to help out with table decorations.
No, don't use the phonograph for No, don't use the phonograph for
a wedding march. That would seem
too ludicrous Better have no music it all; it it not essential.
I think you should have a wedding cake and one other kind of cake.

## From an old Friend.

Dear Junia and all the Nookers: Will
you let me come back? This year and the Advocate I've felt like a wandering soul looking in through the windows at
a happy family gathered round the fireside. And now there are some things Idd like to tell the Nook which I hope
may help someone. The dandelions will soon be here and I wish everyone
knew what a good melicine they are for "soul and body", I was going to say. on our stomachs, don't you think, Junia? Simply chew plenty of the blossoms and
stenis and swallow iuice only and youll stemis and swalow jute only and of the system they are. Then you may dry
some (in the shade) for next winter to
be steped as ton be steeped as tea. So many of our
"weeds" are such groud medicines-bone-set-so invaluable for grippe or cough sleeplessness-catnip, for the same and
so on down the list. For that obstinate so on down the list. For that obstinate
cough or rundown, tiredout feeling with no appetite, black cherry bark tea.
Always steep herl)s with boiling water but don't boil.
Here is somet hing I found years ago in the Ladies' Hone Journal for keeping
the throat in good condition: One-half the throat in good condition: One-h
teaspoon common loaking soda in

## ninking Over

 live, the more 1 planet as a lunaticwoman's fotioh i use that she covelient Furnishing Revieune of who wears the hi le publicing foithed ty, figure and pay comend
Edna E. Lowe, Plyyi of Chicago.

## ng Queri

chip int mari have a "motope Hol et everybody yit malle, either at one or the bridide lapex uld learn that tit parys ding Perians to obe that convenience shouly o weddings! ing the bridesmaid ei! altogether. If she change her dress and in the way to kees it The duty of the best groom in any way he be seen to, e. g. looking nd hat, presenting the seeing to luggage, etc. forms equivalent duties. ing is to remove her Id not be seen until sually the bridesmaids away from it going At a quiet home
ocedure is followed .er place until "best d screening, could them with evergreen of be plenty of flowers June-lilacs, etc.
le decorations. phonograph for
That would seem r have no music ve a wedding-cake

Friend.
This year and
doing without"
ike a wandering
the windows at
are some things
Which I hope
wish everyone
ine they are for
was going to say.
you think, Junia?
re blossoms and
weetener of the
you may dry
next winter to
many of our
edicines-bone-
for nerves and
the same and
or that obstinate
teeling cherry bark tea.
round years ago I found years ago
Journal for keeping
One ng soda in $1 /$
$M_{x-13}, 1920$
cup water hot enough to sizz; add a hot and use as a gargle twice a day. May be used ${ }^{2 s}$ also by making a little excellent and cooler is splendid for the weaker anter, my dentist tells me, han the powders and pastes you buy for correcting athing difficult. In paperceilings try using a large pasteboard ceilings as large calendars come in, to roll the paper on the ceilling wind -one about 18 inches long. I found it ough, if not too long. Please pardon ne.fit is. One thing more. If "Minnie Myrtle" is still on the land of the living," as my old aunt used to say, would me to. In happy anticipation of enjoying many happy hours around the remain as ever
Welome back, "Leer,ibus."
ave missed you.-Junia.
The Cookery Column Sour Cream Cake.-Two eggs, 1 cup sugar, 1 cup sour cream, $11 / 2$ cups four,
$1 /$ teaspoon soda, 1 teaspoon baking powder, $1 / 8$ teaspoon nutmeg, 2 tablepoon lemon extract. Separate the eggs. Beat the yolks until light. Add th sugary beating well. Sift together the with the cream. Add the extract or the shredded peel. Beat the egg whites tiff and dry and fold in. Bake in a hallow pan or in muffin pans half cup shredded codfish which has been parboiled 10 minutes; 1 cup white sauce ${ }_{2}$ cup uncooked rice; $1 / 4$ cup grated cheese; buttered crumbs. Boil the ric and cover the bottom of the baking-dish
with it. Add the codfish; cover with white sauce. Sprinkle the top with grated cheese and buttered crumbs.
Bake in a moderate oven until the crumbs re brown. loffee Jelly.-Soak 2 leve! tablespoons
plain granulated gelatine in 1 cup of cold water for 10 or 15 minutes. Add cups c.ear, boiling hot coffee and 1 cup sugar, and stir until all is d:ssolved
Turn into one large or several individual small moulds. Set away in a very cold place to stiffen. Unless you have ice Soft Gingerbread.-ODne cup molasses,
This will take over night. cup sour milk, $1 / 2$ cup butter or lard, teaspoon soda, 1 teaspoon ginger, $1 / 2 / 2$
easpoon salt. St ir the soda in the molasses until it foams; add the sour milk, ginger, salt and melted butter. a stiff batter. Pour in a shallow greased cake tin and bake rather slowly

Serial Story
"His Family.
(Serial rights reserved by The Farmer's

Again and again she put it off. For in her busy office so many demands both
her such and new kepet pressing in upon her, Deborah tried to a-range her work for the colleague who was there-until one afternoon in March her hour to finish "p, and then brought her that night. Allan was called out on a
case, and a litte while later Roger found his daughter alone in the living-room, glistening with tears. She her gray eyed wher steadily. ${ }^{\text {so }}$ "Just my she muttered un for the remainkler of my done with schoo
Better "I'm not verv proud, dearie," she adder The l'll be all right in the morning."

THE FARMER'S ADVOCATE

## Masters of the Road

## Superb 씅Supreme

The measure of mileage you expect to get from an to give you in Dunlop Cord Tires.
I Dunlop Tires are thoroughly "thought out" in horoughly "tried out" on the road. You they are buyer, get the Final Result.
IThe new ideas we have evolved from world-wide coltaboration with Dunlop Master T I Every other make of tire has suffered in companison
with. Dunlop in a test of endurance: and that meane oreign-made tires as well as Canadian-made. 9 A tough tread, sturdy wallo, largest airchamber, unsurpassable ant-skid features, are some of the reasons why Dunlop Cord Tires are $s 0$ much in

I And just as Dumlop Cord Tires, wherever you go are being awarded the pam as
night across Canada, our 1920 sales figures are regio right across Canada, our 1920 sales higures are resing the defnite approval of motoriets in decidedly unusual increases.
I When you buy Dunlop Tires you buy from the world's greatest rubber organization, whether the companson is in technic
I Our new million-and-a-half-dollar factory is now nearing completion. It will be excl
sively devoted to the manufacture of sively devoted to the manufacture
Dunlop Cord Tires - "Traction,"
"Ribbed""

Dunlop the Universe OverThe Worll's Greates Rubber Organigation.

DUNLOP TRE \& RUBBER GOODS CO., Linited

四

Canada's Premier Draft Horse
 The Clydesdale type of draft horse is more in de denfond. Gooll well-matched pairs sell at
 sour faith"to the end for free bowkty CLYDESDALE HORSE ASSOCIATION OF CANADA 181 Simcoe Street, Toronto.
went quietly on with her prepara
tions for the coming of her child. But
But still the ceaseless interests of those hordes
of other children followed her into the house. Not only her successor but
principals and teachers came for counsel or assistance. And later, when re
luctantly she refused to see such visitors, luccill the telephone kept -inging and letters
stil poured in by every mail. For in her large
family there were weddings, births and ramily there were weddings, births and
deathis, and the endless savage struggle for life; and there were many climaxes of fealousies. And out of all this straining


This is the sign that identifies dealers showing the Eveready Daylo 50,000 Contest Ticture. Look for this sign on dealers" windows

## Three Thousand

Dollars For
Somebody. YOU?
Cash for the thand dollars in cash for one person; a thousand dollars for another; five hundred for each of three other people and ninety-nine other cash prizes from two hundred to ten dollars. Ten thousand dollars in all! How much for YOU? This latest Eveready Daylo Contest will break all contest records. Anyone may enter-it costs nothing; there is no obligation of any kind. Men, women, boys and giris all have equal chances for any of the 104 cash prizes.
On June 1st, Daylo dealers throughout the United States and Canada will display the new Daylo Contest Picture in their windows. Go to the store of a Daylo dealer contest blank, which the dealer will give you, and write on it what your think the letter says what you words or less. For the best answer that conforms to the contest the winner will receive $\$ 3,000.00$ in cash.
Get an early look at the picture Submit as many answers as you wish. Contest blanks are free at


## 18 $10,00 \% / n$ Cash Prizes

## 

Answers will be judged by the editors
of "LIFE",
and
and testants must abide by their judgment. If two or more contestants submit the
identical answer selected by the judges for any prize, the full amount of the prize
will be paid to each. will be paid to each. Contest begins June
1920, and ends Midhight, August 1.1920 Postmarks on letters vill determine if letter was mailed before close Answers Answers must con words. Hyphenated
words. words. Hyphenated
words count as one
word. word

## Complete Contest Rules are printed on Contest Blank. on Contest Printed



## Burlington

Steel Fence Post Cheapest-Strongest fence post for woven or barb-wire line fences residential fences, etc. WRITE TO-DAY FOR BOOKLE UULINGTON STEEL COMPANY, LIMITED

## $\underset{\substack{\text { sag } \\ \text { and } \\ \text { wa } \\ \text { ma }}}{ }$

 ages to Deborahh last appeals for aidad atvice and y ifts for the child who
was to be horn : tiny ger was to be horn; tiny garments fuaintly
mate by wo won and giris from Italy
from Rus made by women and girls from Italy,
from Russia and from Poland toll
hab, from Russia and from Poland cuaby
bankets, wraps and toys and curious chankests wraps and toys and curious
chanmsond dmulets. There wer so many
ot of these gifts.
Dehere's enough for forty babies," Deborah told her father "What on
earth am I to do, to avoid hurting any-
 spite of youe I know of eivht ten enent
babies born down there in this one week. How much fluss and frathers is made over
them, and their coming int othe world, poor mites
daughter.



Best for Baby
of all classes, in in Royal Nurseries and
humble homes parents Food has thes, satyory \& Moore' thoroughly reliable food for being The experience of parent infante and medical men all goes to show that babis for thive remarkably well on infant ailments, and that use prevent a strong constitution, so important y later life. You may therefore brin up baby on Savory \& Moore's Food with the assurance that you are doing
the best you can for your child MOTHER'S GUIDE FREE
Savory \& Moores litue Book, "The Baby" is full of useful information on
Infant Managentent, and contains hints nfant Managenent, and contains hints
on lieding, Trething the Toilet, Erers
ci-e, Weight. Iufant Ailments, and many co Ther subjectis. It is jums what a moung
onother requires. and will prove youvg
nothe


SAVORT\&MOORES
night. "This is the price she's paying
for those nerve-racking years of work!"
week. And while for one entire night
and through the day that former and through the day that followed and
far into the next night the doctors and nurses fought for life in the room upstairs,
Roger waited, left to himself, sitting his study or restlessly moving through the house. And still that thought was with
him-the price' It was kept in his mind family made for news. The which her bi
fatephone kept ringing. Women in motors from uptown coming to make inquiries. More gifts
were brought and were brought and flowers. And Roger saw
these people, and as he answered their
questionsciously, for his mind was not
unconsear. Reporters came. Barely an hour
clear


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tations, itchings, chafings and dan druff on scalp, as well as for cuts,
wounds, bruises and bites and stings of insects, Cuticura Ointment is truly healing, especially when assisted by Cuticura Soap. First bathe the ar-
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Chrougho thent theminion. Canadiandepot:
Lymans, Limited, St. Paul St., Montreal.


## r Baby


Nory inowid tood for infaine Parens nimexime ankzaly well Hit ue privename so imporatutit du forse fox laty yor dieis UIDE FREE Intiu form impon nd ovatan int


KOORE
we're almost out of the world, you and
I". Days passed, Deborah's strength inDays passed, Debory let Roger come creased,

into the room. She, too, was remote from the world for a wious no longer, it family outside was anxious no longer, it left her alone. Buit, he told himself, would | her. |
| :--- |
| she be so close, so intimate, as here in | her bed with this child of hers to "These she had given her

hours are my real weeks of this happiness, and then in a twinkling it was gone. and hild fell sick, within a few hours its small existertled eyes a new Deborah was revealed! Tense and silent on her bed, her sensitive lips compressed with pain, her birthmark showing a jage ears kept fiery red upon her brow sound from the straining adjoining, through hours of stern anguish she became the kind of mother that she had once so dreaded-shutting out everything ether children, rich or poor schools, all, sick or dying! Here was the crisiso Deborah's life!
One night as she lay listening, with he hand gripping Roger's tight, frowning
abruptly she said to him, in a harsh, unnatural voice:
"They don't care any longer, none of
them care! I'm safe and thev've stopped them care! $I m$ safe and they've stopped worrying, for they know they ", soon have
me back at work! The work, she added fiercely, "that made my body what it is, not fit to bear a baby!" She threw a
nuick and tortured lok loward the door of the other room. "My work for thos others, all those years, wit be to liame I'm through! I won't go on! I couldn't I'd be too bitter after this - toward all of them-those children!
These last two words were whispers so "But this child is going to live," he responded hoarsely. Its mother stared up with a quivering frown. men nex ner limbs contracted as from an electric shock. There had come a faint And this went on for three days and nights. Again Roger lived as in to time of doctors, nurses, servants. He saw Allan now and then, his tall, ungainly figure stooped, his features gaunt, his
strong wide jaw set like a vise, but his eyes kind and steady still, his low voice reassuring. And Roger noticed John at times hobbling quickly down a hall and stopping on his crutches before a closed recede, and it was as though he were alone in the dark.

At last the nightmare ended. One
afternoon as he sat in his study, Allar came in slowly and dropped exhausted into
a chair. He turned to Roger with a smile.
, 1 titro, he said quict
Roger went to Deborah and found her
asleep, her face at peace. He went to his room and fell himself into a long dreamIn the days which followed, again he watched the child in her arms. So feeble still the small creature appeared that they both spoke in whispers. But as little
by little its strength by little its strength returned, Deborah
too became herself. And though still jealously watchful of its every movement, talks with her husband, not only about Sheor baby but about his work and hers.
Slow interest in all they had had Slowly her o'd interest in all they had had from outside she gave again a kindlier "Allan tells me," she said one day, "t that I can have no more children. And one," she added," "and he has already before. I feel sometimes as though I'd come a million miles along in life. And yet again it feels so close, all that I left mack there in school. Because I'm so
much closer now- to every mother and
every child every child. At last I'm one of the

Of that greater family, one member had
been in the house all through the month been in the house all through the month been so quiet, so carefully unobtrusive hat he had been scarcely noticed John had gone outside for his ber day John had gone outside for his breakfast
and thence to the office where he himsel had handled the business as well as h could, only coming to Roger at nigh not settle alone some matter he could declaring that he but always stoutly declaring
sitance.
"Don't come, Mr. Gale," he had urged You look worn out. You'll be sick yourif you hang ain't careful. And anyhow, ver she wants you." Early in Deborah's illness John hat offered to give up his room for the use "That's mighty thoughtful of you Johnny," Allan had responded. we've got plenty of room as it is. Just
you stick around. We want you here "All right, Doc. If there's any little thing, you know-answering the 'phone at night or anything else that I can do"Thank you, son, I'll let you know But in that day on, John had take not only his breakfast but his supper too, outside, and no one had noticed his absence. Coming in late, he had hobbled silently up to his room, stopping o listen at Deborahs our. He hat was not till the baby was three weeks old and past its second crisis, that Deborah thought to ask for John. When he came to her bed, she smiled up at him with th
baby in her arms. baby in her arms. "I thought we'd see thim together, she said. John stood on his crutches staring down. And as Deborah watche him, all at once her look grew intent will you, and turn up the light, so we can see him better.". And when this was done, though she still talked smilingly of the child, agai and again she glanced up at John's face stern and sad and wistful, there. When he had gone the tears came in her eyes And Deborah sent for her husband. into Roger's room. Roger had been at work everal days and they had already cleared up their affairs
"Here's something," said John gruffly, "that I wish you'd put away somewhere. And he handed to his partner a smal
blue leather album, filled with the news per clippings dealing with Deborah illness. On the front page was one with her picture and a long record.
to the children of New York. John continued awkwardly. "But thought maybe later on the boy would he inquired. Roger gave him a kindly gance. "think he will. It's a fine thing to guess you'd better put it away, and giv it to her later yourself." John shifted his weight on us in alarm:
so quickly that Roger looked up "Look here! You're not well! che saw now that the face of the cripple was white and the sweave a harsh little nervous laugh. it's nothing much, partner,' "Oh, it's nothing much, partner, wanted to tell you. I've had some queer pains lately-new ones!" He caught his fool?"' "Why didn't you ter me, didn't "You had your own troubses, "But
you?" John spoke with difficulty. "But I'll be all right, I guess! All I necd is days off!' Roger had pressed a button, and
stenographer came in. John, you go right over there and lie dow I'mo going to take you home at once, said John, setting his determined jaws. The sweat be a week-but there's just a chance it I've got a rooml in a hospital! See? He swayed forward "Johnny!" Roger caught him just in time, and the boy lay senseless on his


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with another a few hours later, Allan came small bedroom. He saw from Jolhe! to the door and then came in to Roger. "I'm afraid Johnny has come to the end.'
For a moment Roger stared at him, "Has, eh," he answered huskily "You're absolutely sure he has? There's
nothing-nothing on earth nothing-nothing on earth we can dor"'s "Nothing more than we're doing now." "He has fooled you fellows belore, "Not this time."
"How long will it be?"
"Days or hours-I don't know"
"He mustn't suffer!"
walked see the that."
Roger rose a
"It was last month did it, of course-"
"I blame myself fot that."
"I wouldn't," said Allan gently, Geer." "You've done a good deal for Johhnny "He has done a good deal for this
family! Can Deborah see him"" "I wish she could."
"Better stretch a point for her, hadn't you? ,She's been a kind of a mother to John."

I know. But she can't leave her bed." Then you won't tell her 2" me about him last night. "She talled to "'That's it, a mother!" Roger cried She was watching! We were blind"
He came back to his chair and dropped into it. back to his chair and dropped "Does John know this himself" he asked.

He suspects it, I think," said Allan he's going to get tell him, will you, that done it I'll see him myself, I've get something in mind I want to think out After Allan had left the room, Roger sat thinking about John. He thought of John's birth and his drunken mother,
the accident and his struggle for life, the accident and his struggle for life ignorance and filth and pain; through din and clamor and hunger, fear; of the long fierce fight which John had made not to be "put away" in some big institution, of his attle to keep up his head, self. He thought of a career for 'himone of Deborah's big family, only one of thousands, but it seemed now to Roger that John had stood out from them all as the figure best embodying that great fierce hunger for a full life, and as the link connecting, the one who slowly year by year and come into from her And last of all he though of John ashlsomm companion, his only one, in the immense adventure on which he was so soon to embark. $\quad$ A few moments 'ater he stood by John's "Pretty hard, Johnny?" he gently asked.
"Oh, not so bad as it might be, guess-"" "You'll soon feel better, they tell me, boy:" John shut his eyes
"Yes," he muttered
"Can you stand my talking, just
"Sure I can"" John whispered. "I'm not suffering any now. He's given me something to put me to sleep. What it is you want to talk about? Business? family. You've got so you're almost one of us. I guess you know us pretty well." of us. I guess you know us pretty well. "But I'll tell you what you don't "I had a son in the family once, and he died when he was three months old. That was along time ago-and 1 ned had another, you sec- to take his place less silence. "And I've been thinking lately," Roger a Aded steadily. "I haven't long to live, you know. And I've been wondering whether-you'd like to come into the family-, lake my name. Do
you understand?" John said nothing. His eyes were st.ll closed. But presently, groping over the bed, it tirht. After this, from time to time his throat contracted sharply. Teare welled from under his eyelids.
The gradually, as the merciful drug which The gradually, as the merciful drug which
Allan had given did its work, his clutch tours later, Allan came le sown from came college ne same in to Colleague
$n$ n er
er stared at him answered huskily. n earth we can do?"! han we're doing now," you fellows before,

Roger rose and did it, of cotrse-n

Allan gently,
deal for Johnny good deal for this
ah see him? point for her, hadn't
kind of a mother to e can't leave her bed." ows. . She talked to

Ne were blind!" is chair and dropped
is w this himself" be I think," said Allan. him, will you, that I myself, I've got I want to think out, ft the room, Roger
John. He thought his drunken mother, struggle for life and pain, through which John had mad some big institukeep up his heed
a career for hima career for him-
John's becoming family, only one med now to Roger out from them all full life, and e one who slow h emerged from he ne into her small one e, in the immense er he stood by John's might be, I they tell me,
talking, just a
He's given me to sleep. What It's about the
you're almost one now us pretty well.'

MAY 13,1920
nd hard. But still for some monger Roger sat quietly by his side. The neat night he the huddled form on Death had come re had been no relaxing. With the head thrown rigidly far back and all the features tense and hard, of .stern fighting figure still, a figure injustice. protest against the world's min not thinking of this, but But Roger was not had made, that in their of the discovery the night before John had understood him-completely. For upon a piece of paper which Almonds born ad that day, th
"This is my last will and testament. am in my right mind-I know what I am doing-though nobody else doesnobody is here. To my partner, Roger Gale, I leave my share in Baird I And to my teach for her school.

## CHAPTER XLIII

After John had gone away the house was very quiet. the faint clear cry of Deborah's child. And once again to Roger came a season respose. He was from unhappy his disease, although progressing fast, ave him barely any pain; it rather which $t$ affected his mind. His inner life sew uneven. At times his thoughts were as in a fog, again they were amazingly clear and vistas opened far ahead. H could not control his thinking. This bothered him at do For some months he had been considering an offer from one of his rivals, a modern concern which wished to buy out his business together with that of three other firm and consolidate them all into one corpora lion. And Roger was selling, and it was hard; for the whole idea of bargaining had to keep reminding himself of Edith and her children.
At last was over his books were closed, and there was nothing left to be done. Nor did he care to linger. These rooms had meant but little to him; they the old office far downtown so full of memories of his youth, to the big corporaton looming ahead, the huge impersonal clipping mill into which his business was to merge. And it came to his mind that New York was like that-no settled but only a town of transition, a great turbulent city of change, restlessly shaking off its past, tearing down and building anew, building higher, higher, higher, rearing to the very stars, and
shouting, "Can you see me now?" What was the goal of this mad career? What dazzling city would be here? For into a promised land. Slowly at last he rose from his desk. Clippings, cliplong rows of girls gleaning in items large and small the public reputations of all new of men and women, new kinds in a sweeping on like some wide river swollen at flood season to a new America, a world which Roger would not know. or in it he would play a part. the dim strong figures of the be thereFrom his desk he gathered a few
$\qquad$ small room, with the big gold motto er the desk: "This is no place for you troubles or mine." On the desk lay that small album, John's parting gift to De walked out of the per picked up it and
$\qquad$ hoes nee elevator he noticed that his reached the street below he stopped at the with bushy the corner. The stocky Greek stand for many hair, who had run th greeting; for Roger had stopped there shoes, but he had always liked to watch "Wows of people passing.
"Thane," I said Roger. a fine shine! Polish, too?" "Yes, polish, too." And Roger settled back to watch. "And put in new shoe
strings," he addled, with a whimsical Men and women, girls and boys by
thousands passed him, pushing, hurry-
ing, shuffling by. Girls tittering and nu, shuffling by. Girls tittering and Bobbing heads and figures, vigorous steps and dancing eyes. Life bubbling over everywhere, in laughter, in sharp angry tones, in glad expectant chatter. Deborah's big family. Across
the street was a movie between two lurid posters, and there was a dance hall overhead. The windows were all open and faintly above the roar of the street he could hear the piano, drum, fiddle and horn. The thoroughfare each moment grew more tumultuous to his ears, with trolly cars and taxis, motor busses, rucks and drays. A smash upotwn with piles of evening papers; a great black motor hearse rushed by. In a taxi which had stopped in jam, a man was kissing a girl in his arms, and both of them were laughing. The smart li${ }^{-}$the toque of blue satin she wore were crushed to one side. How red her lips as she threw back her head.
"Silk or cotton, boss? Which you like Roger glanced at the shoe strings and Roger gran
"Silk," he grunted in reply. Idly for a moment he watched this busy little man. From whence had he come in fa away Greece?
here, and what kind of life would he still have through those many years to come A feeling half of sadness crept into Roger's heavy eyes as he looked at the man, at his smiling face and then at other faces in the multitudes sweeping past The moment he tried to single them out how doubly chaotic it became. vivid hopes and worries. Vaguely he could feel them pass. Often in the midst of his life, his active and selfcentered life, Roger had looked at thess crowds on the street and had thought these faces common pl

## the end it was not so

A woman with a baby carriage stopped d erectly in front on for a chance to cross anxiously watching Roger thought of Deborah. Heavily he climbed down from his seat, paid the man and bade him goodnight, and went home to see Deborah's baby.
For a long time he sat by the cradle. Presently Deborah joined him, and soon they were laughing jerks and kicks and grimaces of the tiny boy. He was having his bath and he hated it. But safe at last on his his mother's lap, wrapped to his ears in a big soft towel, he grew very
gay an
There followed long lazy days of spring, s April drifted into May. Early in the morning Roger could hear through his indow the cries of the vendors of towers and fruits. And he listened of the day He rose house: but occasionally he went ut for a stroll And one balmy evening when groups of youths came trooping by, singing in close harmony, Roger called a taxi and went far down through the tenement streets to a favorite haunt his, a little Syrian pawnshop, ring to put long delving he purion that he had been making lately. He had nearly a dozen now. quiet, Deborah was still upstairs. A last, one night upon leaving his study he stopped uncertainly in the hall. took more time than was his wont in closing up the house the various lights. Room after font he left in the dark. Then he gratefully slowly up these guiding points grown familiar to his touch through maned thousand evenings. to listen there.
He did not come downstairs again. He was able to sleep but little a would glance out of the window up at the beet ling wall $m$ from which faint voices dropped out of the dark. Graduand all die away into long mysterious silences grown to be very mysterious. Alone in the hours that followed, even these mow eager town

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Founded 1868 rere, new faces kept his small family sept,
milies and the milies and these went Agains pressing in in As fain he felt the
ss
sities all aroun, with ceaseless chand
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end ever ending multitide,
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on a mountain on a mountain side.
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into roads and were filled with multitudes they hing, spreading, obbing fields of
the lanit, toward n above a distant
dazzling. It. blinding light p and up-whe the A clear, swee

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the wagon it is deposited the wagon it is deposited
well-spread and cross-wise well-spread and cross-wise of the mow, which makes mowing back easy. It does not matter how high your barn is, it can be filled to the peak with a Louden Outfit.
only means less work for you, but may mean the saving of enough more good well-cured hay to pay for the whole outfit in one year.

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of your needs. A man on the load-one in the mow or on the stack-and a boy at the hoist sling or Hay Fork, a Louden Hay Carrier and a Louden Hoist.

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## Current Events

The first aerial mail for Western Canada was brought to Winnipeg from
Grand Forks, N. D. by Lt. A. E. Bingham, last week.
Mảj.-Gen. Sir Charles Townshend, K.C. Bisited Toronto last week.

The Spanish River Pulp and Paper Company has bought a hydroplane its timber limits. The body of Hon. A. G. MacKay, late
Minister of Municipal and Health Affairs for Allerta, and former leader of the
Liberal Opposition in the Ontario House Liberal Opposition in the Ontario House, ${ }^{\text {was }}$ interred in Mreenwo

Sir Hamar Greenwood was sworn in
as Chief Secretary for Ireland on May 6th.
An Italian chemist has discovered a method of cheaply producing liquid
hydrogen which may be used for driving automobiles
The Allies have refused the Hungarian pleas against the terms of the treaty
handed to her representatives in January The Poles, in their war against the Bolsheviki, are closing in on Kiev. They
are now virtually protectors of the are now
Ukraine.
Russian Bolshevik forces have occupied the important port of Baku on the Caspian S.

A bloodless revolution against the in Mexico, and Carranza's troops are reported to be melting away without showing fight as the rebel forces reach them. Carranza is said to have le Mexico City for Vera Cruz.

Danish troops, on May 5th, occupied Northern Slesvig, returned to Denmark after a plebiscite had been taken among territory had been under German contro since 1866 .
The temper of the first meeting of the Congress of the Provincial Nationa the headquaters of Mustapha Kemal savored strangly of an attempt to raise a Holy War, should the enforcement of the terms of the Peace Treaty threate to crush Turkey, the stronghold of Islam. Mustapha Kemal declared that fourteen points in the decision on a Turkish peace. Turkish officers in general disregarding the counsel of the Sultan at Constantinople, show no disposition to move against Kemal.

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## Day-Old Chicks



 Eggs Wanted-Live Hens Wanted





$\qquad$ Jean Weir, of Rainy River District,
and Her Dog Sailor.
$\qquad$
$\qquad$
$\qquad$ sy displacing the ammonia, causes it
scape as gas and a loss in valuable plan
ood ensues. From notes on mixing by
$\qquad$ five times, Atter turning once, the whol
laath should the passed thorght the
screen $o$ insure the absence of lumps and to acilitate mixing. desirable to apply the frtilizers to the land at once, or within hardening or cementing of the materials Never mix basic slag, wood ashes or ther substances containing free caustic
ime with sulphate of ammonia, unless or immediate application as the lime,
or displacing the ammonia, causes its
calt in Li
land accompan prese Nemioned. pair killed and worried foutreen dheite seven sheep and lambs for and termep third were caught at 5 a.m. wommone suspected of worry ing about one pair wes shep before they were caunhe uunder ate a few a mongrel which killed amber in a trap by a lambs, until I caught him hree was a hound which lamb. Number imes, but gave so much tacked three got him at $2 \mathrm{a} . \mathrm{m}$. before he had killer he act our was a mongrel caughit. five was a pair ended there. Number were so small they terriers. They sheep, but one would catch not hold 3 side, of thesir faces two ewes with one ix was a mongrel caurht beffore damber with Collie and Newfoundland blood was I might away before damage was done. arted Two of the first litter were disposed of The two left nearby had to be distledec. account of worrying cattle, sheep and a So I have come to the conclusion that bred or not, and the only safe way is to see that he is properly housed at night or nature will return otherwise his wild join with others and harm mayb he will The Shephern.

## Sale Dates

May 19, 1920.-Aberdeen-Angus Sale
May 20, 1920.-Ayrshire Cattle Breed. Association of New England, con May 27, 1920-John R. Archibald, nt.-Holsteins June 2, 1920-- an. Aberdeen-Ang ciation, Exhibition Grounds, Toronto, June. 3, 1920. - Hood Farm, Inc., June 9, 1920.-International Sale of ilking Shorthorns, Euclid, Minn., U. June 9, 1920. - Sunnybrook Farms olstein Dispersal, North Toronto, Ont
June 10, 1920.-Second National Aytune 15,10 , 18 1920.-Liv ock Breeders' Association of the Dis June 23, 1920-MacVicar Bros., Be mont, Ont.-Ayrshires.
June 24,1920 .-David A. Ashworth Denfield, Ont.-Ayrshires, Horses, York

The Home-Mixing of Fertilizers.
fom which the batch is to of material empty the contents of each sack separately set in a hard firm mass, use the tamper on it through the screen which should
about 10 wires to the linear inch. The lumps which are too coarse to crushed and, when reduced to a sufficjent degree of fineness added to the heap. phatic fer ilizer-entering most largel into the mixture ought to be first spread on the floor, the others being super imposed in successive lavers. The batch sthen turned by shovelling first to one Edrtok "The I receive a
Farmer's Adv by the family It seems as
without it Quebec.

Entron "Th Enclosed
81.50 for my valuable
farmer's

Salt in Live-Stock Rations (Experimental Farms Note.) Conmon satt (sodium chloride) plays on important part in the diet of most dases of tarm animats stop to consider beter appreciated il we the fluids of the that, of the minerals in inesent in the largest amount. body, altis present not note directly to the Salt does not cond as does the food conenergy of the novertheless it is necessary smed proper nutrition of the body. Beidides its physiological action sat ind increases the patability in appetizer foods. It also stimulates the of many foods. It istive iuices, promotes sood Circulation of the fuids of the best
gadd prevents digestive disturbances. Of the common classes on arma swine mamely, horses, ce the least need of salt. the later ill probability due to the difference in diet, that of swine usually consisting largely of grain whercas orher clases consume large quantities on rough are in which less als salt derange the hrse
stomach and bownels of swine causing gases, diarthoea, convulsions and pargavysis, often resulting in death. Never-
and dheless pigs should mave providing it being to the best means o proll imes, in a covered cepp beare
receptecle if outdoors,, a mixture of salt, receptacal air-slaked lime, bone-meal and
charooal, wood ashes or soft coal cinders.
For sheep salt is very necessary. Keeping it before then at all times is here
again the most advisable course for an again the most advisace scouring. The alt tends to keep the sheep in a good sate of health, and they are better able to ward off attacks of diseases or internal parasites. Fur better quality and heavier feece than do those receiving no salt. In the case of cows owing to their much lager sie and the fact that they are
argy daily large amounts of milk which giving daily large announts of milk which
contains considerable salt, a heavier contians cons colt is needed. For cows being
remo led in the stable up to 2.5 ounces per day is recommended. While cows giving a heary fow of milk require an abundance of salt, at the same time the dry, pregnant
cws should not be overlooked as their cwus should not be overlooked as their
requirements are even greater. Cattle on pasture usually require less salt than those indoors, and the amount necessary varies with the nature of the soil and

veretation. On this account it is ad| vegetation. $\begin{array}{c}\text { On this account it is ad- } \\ \text { nisable to have a supply before them at }\end{array}$ |
| :--- | all times. Either rock salt or ground aitt may be used, but in either case it should be placed in a receptacle in which it will be sheltered from the rain or much usually require a larger percentage of milt than do mature animals.

Horses are no exception in the matter
of salt requirement of alt requirement. Here again it
should be regularly supplied. sthould be regularly supplied. A cake of
tock salt in the corner of the manger where the horse can get it at will is the best means of provision. Horses at heavy work require more than those that
were idte or at light work are idte or at light work. An allowance
of 2 ouncess per day is penerally recommended. .
Ast. Dom. Animal Husbandman.
Forty-f ve Years a Subscriber Eortor "The Farmer's Advocate", Find enclosed $\$ 1.50$ being for renewal cate." We have "The Farmer's Advoome for 45 years, and to be without it would seem like losing a trusty friend.
Brant Co., Ont. A. W. VAN SIC

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by the family theciated by the family than any of the rest. It is a great help to the farmer and his wife.
it
aisems as though we ceuld not live withouts th. Quebec.
F. A. Smiley.

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Specially constructed to withstand the most terrific gales and storms, Preston Safe Lock shingles lock together in such a way as to form a solid sheet of steel.
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Questions and Answers
Queseriton aked by bona-fide subscribers to The Faimers
 Thaust te accompanied by the full name and


 redoed. Miscellaneous.

## Raising Squabs.

Can you give me any information on Ans.-Squab raising and marketing is Ans.-Squab itself and requires particular attention to details, as regards that the management. clean. A pen 8 feet wide pens be kep deep, with a yard 16 feet long and 8 feet wide, will make a house for $2 \overline{5}$ pairs of birds. It is important that the pen be well ventilated, yet sheold be strong currents feed given has not moldes taken are used. Too much wheat in the ration sometimes causes bowel disturbance, anr new wheat is conk must also be fresh. water for at birth weighs about half an ounce, and at four weeks abont twelve ounces. At this age they are about reacy for market. For ing and manazement we ing housing, feedus and core the book on "Squabs for Profit," by Wm. E. Rice and Wm. E. Cox. This book may be secured throung this office for 75 cents

## Gossip.

N 2 Minister of Agriculture
in Saskatchewan.
C. MGGill Hamilton, M.L.A., for
Weyburn, Sask., has recently been made Neyburn, , ask,., has recently been made
Minister of Agriculture for that Province, and has already entered upon his new dutites. Hon. A. Dunning has, sincl
the resignation of W. R. Motherwell combined the duties of the Portfolio of Agriculture and Provincial Treasurer
He will now be able to devote his entire time to the affairs of his Department. Ontario readers to know that the new Minister of Agriculture was born at Whitechurch, in Bruce County, il
Jannary, 1878, and received his early education in the public schools of Ontario He attented high school and Normal
school at Revina and also the Manitoba College at Winniper. For several years he tanght school, and in 1991 took up a honestead and has since been farming on fanilian with the agricult tural needs ong Province, as he has had a witl experience in provincial organizations. Besides being been President of the Saskatchewan Association of Rural Municipalities an Grain Growers' at McTaggart and is life member of the Saskatchewan Grain Growers' Association.
A. A. Colw will, a breeder of Clydesdale he has had a very satisfactory year's business. A pair of pure-bred Clydes-
dales were sold to near neighbor. Colonel F. H. Deacon of
Uniong hioionvilie, secured six choice Shorthorn stock bull, Primrose Duke. A typey,
nike nine-quality bull calf went to R. R.
Sullivan, of Latta, and another onc to H. E. Hodgins, of Farran's Point. A couple of neighlor boys who have re-
turned from the purchases of Shorthorn heifers made American breeder secured the two-yearwinner at severth hey which has been a that he will be shown on the American
show circl number of Yenis year. Quite a large of in different parts of the Dominision

Editor "The Firver"s Adyocate" sooomer, but, did mot send my renewal
"The Farmer, would not be withour


Grandpa says "Show me the Cows"

No need to put the strongest men on the farm at millking!
An old man--a boy or girl, can do as much with a Hinman Milker as three able-bodied men by hand.
Think what this means when hours are precious!
Think what it means in saving the wages of highly-paid help!

Over 50,000 Hinman Milkers are in use to-day-many of them milking. prize cows.

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> and testimony of dairymen you know.

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BISSELL Double Action Harrows will thoroughly cultivate


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## Steel Rails

For Reinforcing Bridges and Barn Driveways. Cut any Length
JNO. J. GARTSHORE
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## CHASE TRACTOR

## Built Without

## Differential Gears

Pulls Itself Out of Trouble-Uses Less Kerosene-Avoids Tie-Ups and Repairs

Because the Chase has no differentia gears it avoids many frequent cause Understande.
Understand how differential gears affect the operation of a tractor and the super
iority of the simple design of the Chase iority of
is clear.
Tractors with diferetial Tractors with differential gears can do putll on level land on a straight-away wheel meets an obstacle the differential throws al' the power into the other wheel, so, quite often you see such - a tracto with one rear wheel dead and the other spinning. That happens $w$ hen the tracto gets one wheel in a mud hole. The very the differential driving force is needed of tits powerto gears rob the motor The same thimo thactor
The same thing occurs in a lesser degree in all ploughing work. For, the sidewheel than on the other load on one ential gears throw the power into the other wheel.

More than half the time the Tractor with differentail gears is, in eflect, a one-wheel-drive tractor

Pulls Itself out of Trouble.
The Chase Tractor, having no differntial gears, drives both rear wheels with equal power. When the Chase rear wheels to driver can use both ear wheeis to pull out. When obthem. On side-hill ploughing or evel ploughing the side-draft cannot pull the Chase from a true course. The Chase pulls its load more evenly-is asier to control-is more constantly
con the iob," "on the job.

## Uses iess Keroséne.

This no-differential feature saves kerosenc of two reasons. 1st. Gears waste 10 ,
of the Chase saves that $10 \%$. in addition, the Chase saves the power that
would be wasted by the uneven pul due to differential gears.

## Avoids Tie-ups and Repairs

Because it pulls evenly the Chase saves wear on bearings, and avoids strain on
all working parts, This means adjusting and less replacement of parts. It means more hours "on the job."
Judge the Chase on its Construction and its Performance.
The Chase Tractor is a simple sturdy machine.
It has fewer parts than other tractors It is a tractor that a farmer can handle easily either in the field or for Belt power, and because of its simple construction and the accessibility of its parts, one that he can attend to with theas trouble and loss of time. It is a low-riding tractor-gets under trees in orchard work, has sure footing
on side hills. on side hills.
The Chase turns in a narrow radius. By throwing either rear wheel out of gear a sharp furn can be made. The motor is the heavy-duty tractor type, built to do continuous service
without overheating, to give high efficiWithout overheating, to give high effici-
encr on kerocene or ency on kerocene or low-grade gasoline
to avoid the waste of lubricating oid to avoid the waste of lubricating oil,
which is customary when kerosene is which is customary when kerosene is who understants and delights in fne machinery should examine the in fhase Tractor and watch it in action. The more he knows about tractors, motors and machinery, the greater respect he will have for a piece of engincering con${ }^{W}$ Fite for literalure and information, Find out, at once, where you can see
the Chase Tractor and investipate for


## BEEMAN

One-Horse Garden Tractor Does everything that one horse can do in garden or field work-does it better and faster.
Cultivates as close as a hoe-even in 12-inch rows. Ploughs, harrows, seeds. Hills potatoes. deal for market gardeners. Invaluable to farmers.
Has a 4 H.P. Motor for belt-work-and trots from one job to another.
Thousands in use for cutting lawns, golf-courses, parks.
Fully-illustrated literature sent on requesteverywherepportunity for wide-awake dealers

Chase Tractors Corporation, Limited TORONTO ontario

##   lills potatoes. nvaluable to golf-courses, on request- walke dealers

on, Limited ontario

Gossip.
Cedar Brook Farm Holsteins In the live-stock advertising columns Jenkins, of Cedarbrook Farm, Inglewood, Ont., is offering two young sons of Highland Pontiac Sylvia, the promising 31.92lb . grandson of the great May Echo
Sylvia. These calves are choice youngsters, and their grandsire is probably Sylvia's sons. On the dam's side, Highland Pontiac Svlvia, has a $31.92-\mathrm{-lb}$. four-year-old dam which made an average of
36.51 lbs . of butter for his two nearest dams. We might also add that the milk records of these two dams average 786.49
lbs. for seven days. This is the sort of breeding which should appeal to all who are buyers of the best, and the two remain long in Mr. Jenkin's stables.
The younger calves which are now arriving at the farm are sired by the present herd bull Daisy Hartog Boy, No. 35214. service, is got by Canary Mercedes Pietertje Hartog 7th, and his dam is Daisy Mottle Beauty, a 30.89 -lb. daughter of Imperial Pietertje Posch, while Canary Mercedes Pietert je Hartog th is a son of the world's famous
Royalton De Kol Fern. He is described and with this wonderful combination of breeding it is only reasonable to expect further news from his get in the near future. Mr. Jenkin's farm is situated one-half mile only from the C. P. R. and G. T. R. stations at Inglewood, Ont., and

Imported Scotch Shorthorns. While in the vicinity of Millbrook,
Ont., recently, a representative of "The Farmer's Advocate" visited the farms of herd of Shorthorns is already known to many readers of these columns. The McCamus herds at present number one
hundred head in all, and at least a dozen of the breeding matrons are inported
cattle of the best Scotch families. At cattle of the best seotch these inported
present quite a number of cows have cale also all got by one or the youngsters
other of two imported sires, Gol ten Challenger and Royal Sensation, the latter was a Ury bred bull by Royal Knight, grandam by Scottish Archer, while Golden Challenger, which is sood the chief sire in service, is a Rosewooll
bull by Ascott Challenger. This bull, bulthough still young, has wonderful although still young,
promise and his dam, Rubyhill 27th, by Grolden Champion, a Golden Drop bull, is described as one of the best breeding cows in the famous Kinelar hes, space -referring to the breeding females, space will not permit indivis reason only throughout,
those which have calves for sale at present those referred to. The complete list of these include five imported cows, among which is a Sittyton Rosebud with a Bruce-bred
Mavfower calf; a Marygold cow by Caplean Broadhooks a four-year-old cow with an importe! Wimple and a six-year-old Broadhooks cow. These are all imported cows, and with the exception of the imported in ore or the other of the two sires mentioned above. There are also two imported cows, a four-ycer-ret,
Butterfly and a four-year-old Secret,
Sesid"s which
several more which are due to freshen shortly. Al The remaining families represented among the imported cows Comp-
Miss Ramsden, Misses, Waterloos, Camales bell-Floras, etc. The home-brequally well in the herd, individuality, also bring for-
as regards id breeding, many ward a lot of splendid breeding, many being got by the former hill probably be Bluff Model. Thed as the sire of Roan Duchess, the top-priced heier a sire of London sale: also had the distinction of
winners, he being a son of Oak Blund grandsons of the great Whitehall Sultan.
Average Father (showirg his pro Average
digy's dawings. .. Would you believe
that he never took a lesson in his life?

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Fifty-four years in the Harness business is assurance that our goods are right. We
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## The Most ImportantHolstein Announcement forMay

35 HEAD The Archibald Dispersal

Twenty-five Fresh Cows, Several Young Heifers and Five Young Bulls
35
HEAD

Comprising the entire herd belonging to JOHN R. ARCHIBALD, and selling at the farm, near Seaforth, Ont., Thursday, May 27th, 1920

FOLLOWING IS A SAMPLE OF THE BREEDING LISTED
K. S. A. C. Evangeline De Kol, born Dec., 1917 A most perfect individual, daughter of King Segis Alcartra Calamity and Witzyde Evangeline De Kol, 31.00 lbs. of butter, 637.10 lbs of milk. This heifer is due at sale time to Dutchland Pontiac Colantha.

Jenny Hartog, a fine five-year-old cow by Canary Mercedes Pietertje. Her dam, Jenny Bonerges Ormsby 2 nd, is a daughter of the five times $30-\mathrm{lb}$. cow, Jenny Bonerges Ormsby 2nd.

Countess Calamity Korndyke, a fine young show cow, with a 7 -day record of over 20 lbs ., and the firit cow ever tested on the farm.
Lillian De Kol Queen, a seven-year-old daughter of Sir Houwtje Pledge Butter Boy, who is also among the first lot to be tested by Mr. Archibald. She has 23.20 lbs , Cherry Grove's Luta, another mature cow.has re. cently made 24.23 lbs . She is got by Mutual Friend Paul De Kol, and in experienced hands should greatly increase her record.

These are the sort of females which will be selling on May 27, and 25 of the lot will be selling either within a few weeks of calving or in full flow of milk. Their individuality is good, and the bulls to which they are bred include a number of Ontario's highest record sires. If you want fresh cows and foundation material at the same
time attend this sale. For catalogues address:

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is only one of the many merits of the SIMPLEX Cream Separator, but it's one that tells the real value of a Cream Separator. Cream lost in the skim-milk is money thrown away, it's just like losing a few pounds of butter every week. All this loss is eliminated when you use

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The large capacity, ease of running, ease of cleaning, simplicity, selispindle point, low-down supply can and general pleasing appearance of the SIMPLEX maker it a favorite
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Write us to-day and let us explain how
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A money mak ing machine or a money making crop.

With feedstuffs olimbing in price you can't afford otele chances with your hay crop. Sorap that old mower and get real efficiency with a

## Frost \& Wood Mower

The longer you own one, the heavier the crop you put it at and the rougher and more hilly your land, the more enthusiastic you will become over the many splendid merits of the Frost and Wood Mower. Its high quality roller bearings ensure light draft. Its cutter bar strength and superior cutting mechanism suarantee long service, good service and service when you want it. All levers easy of control and handy to reach. Thousands of farmers have good reason to

F. \& W. "Internal Drive" gear means real efficiency Look for this Frost and Wood feature. The pinion which takes the operat-
ing power from the big drive wheel, "runs on the inside.," The tow wheels ing power from the big drive wheel, "runs on the inside." The two wheels
turn in the same direction. No tendency to fly apart, turn in the same direction. No tendency to fly apart, become rattly and break cogs. Always ready for work and a quick stari into a heavy crop
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thorn Bulls




NTOCK FARM STOCK FARI


Adrocate.

Questions and Answers. Questionitollaneouqi:

## Matter and Man.

Ta man hired by the year entitled to Ill pey thoold he be laid of by sickness tring his term of engagement?
Ontario. Ans -Yes, provided the sickness is
an any con$\begin{aligned} & \text { merely temporary } \\ & \text { sideable duration. }\end{aligned}$
Exemption From Assessment. Accoriting to the amendments of the cossment derived from investments, such ncome donds, mortgages, notes, etc., is exempt from municipal assessment. . R Ontario.
Ans.- All of same provided it does not ceed $\$ 800$ and the person's whole inome if not over $\$ 1,500$.

> Lost Lumber.

A takes logs to sawmill to be sawn ato lumber. A marks logs while B is
and ans to logs. Two days ter A goes back for the lumber and the lumber has been removed, B claims he knows nothing of the missing lumber, athough he acknowledges sawing the 1. Who is responsible for the lumber?
2. What proceedings should A take to Tecover lumber? 3. If lumber cannot be secured, does A have to pay for the sawing or G. H.
umber? Ans.-1: We think that B is. 2. He should bring a replevin action siy no.

Miscellaneous
Would it pay to sell oats at $\$ 1.10$ per bushel and buy bran at $\$ 60$ per ton? the different millfeeds, including oats? 3. What is a good formula for feeding cows for milk?
4. Does it increase the feeding value of peas, oats and vetches to put them i into hay?
5 . How many tons would a silo 10 by 25 feet contain?
${ }^{6}$. . How do you estimate the number Ans,-1 Considering the quality of Ans, -1 Considering the quality of we would prefer oats at $\$ 1.10$ per bushel. 2. Oats are almost a balanced ration in themselves, but it is advisable to feed some other concentrates with them
bigh production. From the protein standpoint, oats contain a little less than thebran, but area little higher in nitrogen, ree extract, and practically the same in lat. Gluten meal contains approximately
35 per cent. protein and oats 12 . For milk production, it is the protein content which must be considered. In order to maintain body flesh and get the highest returns in mikk, a person might mix ittle oil cake or cotton-seed meal. The kind of concentrates will depend somewhat on the roughage fed. One would nee. to eed more of the protein-rich feeds with 3. The amount to feed depends some. what upon the size of cow and milk yield. Clover hay, silage and roots may form
the basio of the meal ration made up of 5 parts oats, 2 parts corn and one par nitrogenous feeds. A A safe rule is to feed one pound of concentrates to 4 pounds of 4.
he silo, putting oats, peas and vetch in feed for' the stock on in the winter. These rops are grown for silage purposes in 5. A silo of the dimensions giver 6. In order to estimaty 45 tons. bushels in a bin, one finds the cubical contents and takes eight-tenths of it and a bushel contains 1,728 cubic inches, or there is practically 8 of a bushel in a
cubbic foot

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Grand River Dual-Purpose Shorthorns

las buil calves fore.
few females to pore.
HUGH A. SCOTT
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## Reyburn Milking Shorthorns

ANNUAL INTERNATIONAL SALE
JUNE 9th, 1920, AT EUCLDD, MINNESO and five outstanding bulls Sixty head of choice milking Shorthorn cows ant Farm, Euclid, Minn. R. R. WHEATON :: : : Al R. R. PALMER MILKING SHORTHORNS BERKSHIRE PIGS
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Mardella Dual-Purpose Shorthorn cholce young bulls; 30 femalee. cows and heifer. Al of good size, type and breeding. Herd headed
 binations of beef, milk and Shorthorn character All priced to sell. Write, call or 'phone.
THOMAS GRAHAM, Port Perry, R.R.3, Ont.



Dual-Purpose Shorthorns Hind Dorsot Preent oiferings A number of 2 -year-old heitere
and bome young bulle. Write, or come and see. and some young bulk
VALMER BARTLETT, Conffold, Ont.

## The Rise of Maxwell is Due To Its Metals

Fine soil makes fine wheat; fine feathers make a fine bird; and fine metals have made the Maxwell. They have given it:

1-A life of 100,000 miles. 2-Thriftiness.
For its metals are light in weight. Therein comes thriftiness.

But these metals are of extra strength. Therein comes long life.

Metallurgists-those who have made the study of metals a science-will tell you that such metals are costly, but they guarantee quality in a car and their generous employment in a Maxwell is by far the best evidence anyone may need to determine its quality.

They are almost alone responsible for the rapid rise of Maxwell, for the fact that nearly 400,000 now have been built, for that evergrowing friendliness to Maxwell the world over.
MAXWELL MOTOR CO. of Canada, Limited, Windsor, Ont,

## Burnbrae Shorthorns


I am in a position to furnish you with the best in either sex that
can be found. High -clas young bulls for the breder anh




ROBERT MILLER
Stouffville, Ont.

## 40 SCOTCH SHORTHORNS

 J. A. \& H. M. PETTIT

FREEMAN, ONTARIO
Pear Lawn Shorthorns,

 River C.P.R. Peterborough County.

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$\frac{\text { R. R. } 2,}{}-\quad-\quad$ GUELPH, ONT.
Spring Valley Shorthorns ${ }^{\text {Hated }}$ the
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Roan Bull-Calved April 23rd, 1919

20 Bulls-SPRUCE LAWN- 100 Females -Clydesdales, Shorthorns, Yorkshires, Hed
 Minster Fand T. W. McCAMUS, Cavan, C.P.R.8 Millbrook, G.T.R. and P.O., Ont. Minster Farms - Holstoin bulls fit for service for sale. Son of a a 14,7 . 8 -lib. 2 - year-old dom with
ter-fat)
 R. HONEY \& SONS, Dartford, Ont. (Hastings Station). Cedar Dale Farm
 A. J. TAMBLYN, Codar Dalo Holsteins, (C.N.R. station one milio), Orono, Ont. Shorthorn Herd Sires Solling Quick-I have several young bulls left that tuit Reout
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Newcastle Herd of Shorthorns and Tamworths for Sale
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(Lind . All from ${ }^{2}$ R. R. No. 2 , Nom

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ported females in calf or calf by side.
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ASHBURN, ONT.
Glengow Shorthorns and Clydesdales - Recently advertised bull have all been endd
 WM. SMITH, Columbus, Ont. Stations: Oshawa, C.N.R.; Myrtle, C.P.R.; Brooklin, G.T.R.
Will SPRUCE GLEN SHORTHORNS
Whe live an choice, heif bred, chick, deep level, mellow young bulls of breeding age for sale; also
heifrs in calf to a right good sire. Write for particulars. Dundellk, Ontario Imported Scotch Shorthorns $\underset{\text { sire; also a choice }}{\substack{\text { For Swo-val- Salo-Three imported bulls one yearlige } \\ \text { one two-year-old and our the-yearold }}}$为
R.O.P. Sh. M. MITCHELL, R.R. No. 1, Freeman, Ont.


$\overline{\text { STI }}$
Aber of


Whin feed,
If interest
they contair W. A. CLEM Ray

## Fhinn-Flat Protects Property

That very fact, that Shinn-Flat Protects Property, means proitabin-and particularly farmers-can't afford to take hances on lightning. Lumber, labor, grain, stock and ning stroke.
Protection.

## Shinn-Flat <br> LIGHTNING RODS

Do prevent Lightning loses, as demonstrated on thousand of Shinn
provected buildings throughout the Dominion and the United States. Sindu us
Sisents.

Shinn mpg. Co. of canada, limited
Prot. W. H. DAY, Secretary and General Manager.
Manufacturers of Shinn-Flat Lightning Rods
The Kind That


Hamilton House Holstein Herd Sires


D. B. TRACY, Hamilton House, Cobourg, Ontario

Hospital for the Insane, Hamilton, Ont.
HOLSTEIN BULLS, ONLY, FOR SALE
Senior sire is from one of the best sons of King Segis Alcartra Spofford. Junior is grandson
of the noted May Echo Sylvia, by Champion Echo. Sylvia Pontiac.
Write to the Superintendent for prices, elc.
HOLSTEIN HERD AVERAGES 18,812 LBS. MILK A herd of 13 pure-bred Holsteins last year averaged 18,812 lbs. milk and 638.57 lbs. fat.
Do you realize the money there is in such coss? 1 is estimated that the average annual yield
隹 of all coms in this country is under $4,000 \mathrm{lbs}$. These
the $4000-\mathrm{H}$. class. Why feed, milk and shelter any more cows than you need to produce the milk you require?
If interested in
send for
valuable informatetion they contain muld HOLEIN-FRIESIAN ASSOCIATION OF CANADA $::$ ST. GEORGE, ONT.

## Raymondale Holstein-Friesians

A herd sire of our breeding will improve your herd. We have sons of our pre
ent sire, Pontiac Korndyke of Het Loo (sire of $\$ 12,750$ Het Loo Pieterje), and
Echer ent sire, Pontiac Korndyke of Aet Lal Pontiac Echo. Several of these are of
also sons of our former sire, Avondale Porty
serviceable age, and all are from good record dams. Quality considered, our
dhen prices are lower long Write to-day
should not remain long, RAYMONDALE FARM, Vaudreuil, Que. D. RAYMOND, Owner, Queen's Hotel, Montreal









HOLSTEIN BULLS FROM 30-1b. DAMS

The Sunnybrook Farm Herd


 ELDERSLIE HOLSTEIN-FRIESIANS

 Sylvius Walker Raymondale is the site of tho moderivy of our voung bull





O. A. C. Examination Results. There was an unprecedented attendance at the O. A. C. the past year. All classes
were filled to overflowing. However, the number fajling in certain subjects are fewer than usual, considering the number of students writing. This is creditable to the boys. There are at every college adapt themselves to the work, and as a result are unable to secure a pas final examinations:

First Year-Maximum 2700. Riddell, 2217; Kenny, 2199; Balch, 2162; Hutt, 2128; Ruhnke, 2092; White, F. H., 2058; Mutrie, 2010; Davidson, 1987; Cockburn, 1970; Williamson, A. E., 1958; Thompson, A., 1958; Upshell, 1954 ; Summers, 1945; Elliott, 1938; Werner, 1935; Presant, 1927; McKenzie, W., 1910; Kinchsular, 1895; Wallace, 1882; McMcGiffin, 1875; Burke, 1845; Carbin, 1845; Miller, W. H., 1838; Miller, E. A., 1836; Huntsman, 1836; Ratz, 1833; Burton, 1823; Hinchley, 1822; Cohoon, 1796; Wiliamson, W. H., $i$ ichmond, 1789; Manning 1786; McLellan, 1785; Burwash, 1785; Turner, 1781; Graham, A. J., 1777; Laughlin, 1773; Sorley, 1769; Davey, 1764; Synott, 1759; Lloyd, 1752; Rutherford, 1744; Kirk, J. R., 1741 ; Scott, G. A., 1740; Howard, H. R., 1730; Clutton, 1729; McKenzie, R. M., 1720; Hellyer, 1719; Fricker, 1714; Thomas, N. J., 1706; Hull, 1698; Stanley, 1685: McCallan, 1682; MacBeth, 1676; Martson, E. H. ${ }^{1}$ 1669; Sneyd, 1669 ;
Strothers, 1669 ; Blaney, 1661 ; Mahoney, 1659 ; Dickson, 1656 ; Winch, 1654 Adams 1648; Baron, 1646; Van Harlem, 1636; Hinrichs, 1630; Wilson, J., 1628 Bratt, 1623; Kirk, A. R., 1618 ; Schell, 1596; Beattie, . Mi., 10. T., 1588; Arnold 20; Hill, 1593; Mills, A. T., 1588; Arnold Wilson, G. C., 1569; Ficht, 1563; Taylor 1563, ${ }^{*}$ 19, 20; Smith, C. E. S., 1558 Eddy, 1540; Wood, 1. 1 .' Blow 1528 Hillier, 1531; Young, 1531; Blow, 1528 Dyce, $1522 ;$ 12; Loth R., 1502; Armstrong, 1501 Hawkins, R., 1502; Armstrong,
Constable, $1488 ; ~ P e n n y, ~ 1487, ~$ Dalglish, 1483; Speers, 1481, ${ }^{*}$ 20; Watt, 1452, *13; Buchanan, 1446, *9; Edgar 1446; Horne, 1437, 1424; Vignale, 1419, ${ }^{*} 1$ 14; Shearer, 1417, ${ }^{\text {*1 } 12 ; ~ S m i t h, ~ C . ~ A . ~ S . ~}$ 1412 *12: Squire, 1409, *12; Dawson, 1408; Buckland, 1384; Sager, 1381, ${ }^{12}$ Howard, J. W., $1379,{ }^{2}$; Granam, 1359 1377; MacLaren, 1367, "15; Rowat, 1359 Nichol, 1355, 12 , Camer, B. C., 1346, "10 Gilbert, 1348; Fraser, Cole, S., 1336, *9 Calder, 1344, Baotes, 1332; Both, 1332; McLean, 1315 ${ }^{*}$ 12; Jackson, 1315, ${ }^{\text {B12 }}$; Murray, 1312 ${ }^{*} 12,21$; Dobie, 1309; Buckley, 1299 *9, 21; Marston, A. R., 1296 , 1273 , *2 Ziegler, 1293, ${ }^{8} 8,12$; 10,13 ; Nelles, 1256 ${ }_{* 1}$ Bal 2; Crossgrove, 1243, *8, 12; Bright, 1234, *10, 13; Goodwin, 1229, *12; Mac donald, M. R., 1222, *8, 20; Ward, N.A., 1221, ' $\quad 9,13$; Chisholm, 1213, ${ }^{*} 9,10$; McRae, 1205, *9; Nelson, 1200, *20, 21 Bohn, 1181, *' Joss, 1146, *14.
Phillips,
Failed in subjects marked
List of Subects
1, English Literature; 2, Composition , Elementary Drainage; 4, Arithmet 5, Hydrostatics; Manual Training; Mechanics; 10, Geology; 11, Botany; Zoology; 13, Horticulture; 14, Field
Husbandry; 15, Animal Husbandry; 16, Dairy; 17, Poultry; 18, Apiculture; 19, Materia Medica; 21, Farm Management. Second Vear-Maximum 3300 Hart, 2529; Shaw, 2509; Leaver, 2476 Thompson, 2102; Hartley, 2368; Wyatt 23517; Whiteside, 2312; Graham, J. K.

$\begin{aligned} & \text { You want him good and healthy, } \\ & \text { You want him big and strong: }\end{aligned}$
Then give him a pure woolj ersey
Let him romp with att Mis 1
$\begin{aligned} & \text { And he'll always be bright amd } \\ & \text { If he weara, a Bob Long Brand. }\end{aligned}$
BOB LONG
Pure Wool Worsted Jerseys

For Dad and the Lad Pull-over or Button Shoulder 8tye
ande for Fierd Wear, Comfort and Smart Appearance
R. G. LONG \& CO, Limited Whaipes corcuro Bot Lome Brands

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 Holstein Bull FOR SALE


 who won championship at Toronto an
London in 1919.1 heter sold to Jon $A$,
Bell, Jr., for $\$ 7,500$, and made 35 be London in $1919 ;$, ate,
Bell. JI.. for $\$ 7.500$,
butter in seven days. butter in seven days.
This bull was calved February, 1919
 Price, delivered, \$200.
R. N. WHITE
R.R. No. 4


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open to all canada
Ormstown, Que., June 15-16-17-18 $\mathbf{\$ 1 7 , 0 0 0}$ offered in prizes
All judging done inside large covered steel Stadium.
The Livies Stock Dept., ottawa are offering larye prizes for finished
 Cattle men do onot need to be ready to extibitit until Wednesday.
Neil Sangster, President W. G. McGerrigle, Sec. Treas.

ALL BULLS OF SERVICEABLE AGE SOLD for salk from yomng R.D.P. dams. sims. by Financial Raleigh King, son of the $86,000.00$ Financial Beauty King Springbank R O P Ayrshirs Ote ELELE, ONT . P. Ayrshires - Our Aly thires win in the show ring and TURNER \& SON, Railway Station, Hamilton, RYCKMAN'S CORNERS, ONT. Stockwood ${ }_{\text {Cand }}^{\text {Imported and }}$ Ayrshires ${ }_{\text {sev }}^{\text {-W }}$

2

$\qquad$


Broadway, Tillsonburg, Ont., waterbound micadam treated annually
with "Tarvia- B" $^{\text {" since } 1919 .}$.
How Tillsonburg keeps its streets firm, smooth and dustless
$M^{\text {Nix }}$ ANY other towns have just
the same proble Tillsonburg, Ontario faced macadam streets' do not find their under the hard usage of modern
traffic trafric and are put to it to secure
"In 1913 Tillsonburg began using "Tarvia-B" on its main through-
fare, shown above, which carries fare, shown above, which carries
heavy traffic. After repeating this treatment yearly, Mr. C.
Denton, Ex-Reeve, writes us: - "I consider 'Tarvi B' the best coverings for one of that we have ever used and have used it on Broadway for sider the life of the road conbeen saved at least to the has tent of one-third, as we have had comparatively no repairs to make on it since we began


The exacti umited $_{\text {Company }}^{\substack{\text { Montreal } \\ \text { Winnipeg }}}$
100 Sophie Tormentor Jerseys 100 At Auction, June 3, 1920

Register of Merit Cows, Bred Heifers, Heffer Cal
Bulls Ready for Service and Buil Calves.
Descendants of the World's Champion Long-distance cow, Sophie 19th of Hood Farm; Hood Fanm
Pogis 9 th, the champion sire, sire of 79 R.O.M. cows and 31 producing sons; Hood
 HOOD FARM, INC. $::$ : $:$ LOWELL, MASS.
BRAMPTON JERSEYS
the largest jersey herd in the british empire
Toronto Exhibition, 1919, we won twenty-five of twenty-seven first prizes. We now have for sale
first-prize young bulls from R. O. P. dams, as well as females of all ages. B. H. BULL \& SONS Brampton, Ontario Laurentian Producing Jerseys - The ondest bull pe hare at quid
 The CANADA'S MOST BEAUTIFUL JERSEY HERD



DON HERD OF PRODUCING JERSEYS
 PURE-BRED JERSEYS Quality animals-Highest Froduction
PURE-BRED JERSEYS Ouality animals-HTichest production with show type females of (1).
 251; Store, 22 bum, 2ack, 2210;
Hancol- Smith, G
2ate 2778: Moore, F. S. B., $2148 ;$
ai27; Jamieson,
Greaney, 2109 ; 2104; Chamber
20ther 2083; W
 2024 Wildman, Sterait, C. W
Hamilton, F, W St. $\begin{aligned} & \text { Painter } 1975 \\ & \text { 1903; Ripley, }\end{aligned}$ Amstrong, A.
Purdy, 1936; Purdy, 1936; prett 1916; A
$10 ;$ Mack Kay 15: Jackson, 18 Grififths, 1851 Br
$1828+13,18 ; \mathrm{Br}$ 1828 13, 18;
181; Tolton,
Conke, 1796; B 1780 A, 16;
1758; Osborne 1734; †Brenna Nills, 1700 * 11 Halpenny, 167
21,22; istart
Hen Sheppard, W.
tRiley, 1629 Lathey, 1603 *

- Subjects examinations mu

1, English I. 3, Public Spea
Thesis; 6 , Surv Agr. Engineerin Mechanics; 10 , Soil Chemistry 13, Bacteriolog
Horticulture; Horticulture;
Economic Bota 19, Field Husb ment; 22, Pr
fudging Live Judding Live
25, Dairying; Pathology; 28,
Forestry; $30, \mathrm{~F}$

Jukes, 88.3;
s4.0: McArthu
84.0; McArthu
Lewis, 79.9 ;
78.3 ;Grant, 77
74,$3 ;$ Nelson, 7
72.3; Deneau,
field, 71.9; Eil
eid, 7.9 ; El
Foreman, 70.8
70.4; Brown, McCague, 68.9
Irvine, 68.7; Lee, 68.1; Lo man, 66.6; Ars
MacAdam, 66 Ireton, 6 6.4;
$64.7 . * 20 ;$ Mor Watt, 63.0;
$62.7^{*} 15 ;$ Ziegle $61.0 ;$ Kay, 60
$60 . \mathbf{N}^{*} 16 ;$ 59.5 *11; Ho
58.4; Clark, 58.4; Clark,
Shoemaker, $57.8{ }^{* 16 \text {; }}$; DuT
${ }^{516}$ ${ }^{*} 16$; Stirrett, 5 Thompson, G
$54.8{ }^{*} 13 ;$ Mitc $54.4{ }^{*} 12$; Cai
$53.9{ }^{*} 12,16$. W.9. 12,16 ;
W. Y., 52.6
Crews. 51.8. 51.7; Stott,
20: White, 20; White, S.,
${ }^{1} 14 ;$ Goodier, ${ }^{*}{ }^{*} 11,19$. 19 .
Failed in 1, Eng. Lit 3, Economics
Meterology; Chemistry;
10 , Oual. Ch 10, Qual. Che
tive Chemist 13, Geologistr
Physiology; Physiology;
Econ. Entom Farm Manage
21, Field Hu

Disisrove, 2285; Davidson, 2265; Cline, Dissmew re, 22f6; Oldifield, 2236; Cock2251; 2229 Twinn, 2223; Chesley,
 2917: Smith, G. D. Moore, 2164; Hammersley, 2161; 2733: Moore, 2160; Hammer, 2161; Thomas, F. S. B. .2148; Welland, 2131; Shields,
 lof Chamberlain, 2099; Fraser, 2094; Dither, 2099; Western, 2085; Page, 2083; Bromi, 2069; 把igh, 2038; Cole, 2034;
Roge2, 2033; Wilcox, 2028; $\ddagger$ Marritt, 2024: Wialman, 2017; Pearsall, 2009 *16; Stemet, C. W., 2000; Cody, 2002; Lamiloo, F. W., 1987; Ellsworth, 1984;
 Romer Mipley, 1953; McLennan, 1959;
 Purdy, 1936; Karn * * Heming, M1ss, Alp, 1907; Renwick, 1902 r10; MacKay, 1893 *15; Haden, 1871 .
 Grimiths, 18013,18 ; Broughton, $1813 * 2$; Watson, 1880; Toiton, 1807 *4; $\ddagger$ Harley, $1798 * 2$; Cooke, 1796;' Bach, $1783{ }^{*} 13$; MacMillan,
 173i; EBrennand, $1728{ }^{17}{ }_{1}$ Baldwin,

 421,22; IStart, D. E., $1658{ }^{168,15 ;}$
Shepard, W. W., $1630 * 8,10,13,18 ;$ heppara,
tRiey, $1629 * 11,15: ~ A l l m e n, ~$
. flathey, $1603{ }^{* 4,} 28$.
t Below $60 \%$ in English.

- Subjects on which supplementary eraminations must be written.

Lfst of Subjects.
1, English I.iterature: 2, Composition; ${ }^{3}$ 3. Public Speaking; 4, Economics; 5 , Anr. Engineering; ;, Electricity; 9, Farm Mechanics 10 , Organic Chemistry; 11, Soil Chemistry; 12, Animal Chemistry;

 19, Field Husbandry; 20, Animal Husbandry ( X mas); 21, Feeding and Management; 22, Principles of Breeding; 23, Judging Live S+ock; 24, Horse Judging;
25, Dairving; 26 , Poultry: 27, Veterinary Pathology: 28 Veterinary Obstetrics: 29 Forestry; 30, Farm Management.
Third Year.

Jukes, 88.3; Leggatt, 86.6; Wood, F. L. 340; McArthur, 81.9; Waterman, 80.4;
Lewis, 79.9 : Eidt, $78.6 ;$ McCrimmon 78.3;Grant, 77. 6; Trueman, 76.8; Maybee, 743; Nelson, 72.9; Callister, 72.5; Dewan, fied, 71.9; Elliot, 71.5; Ferguson 70.9; Foreman, 70.8; Frey, 70.7; Williams, 70.4 Brown, 79.1; Christensen, 69.7; Mccague, 68.9: Stock, 68.8; McKay, 68.7
Irvine, $68.7:$ Atkin, 68.3 ; Fulton, 68.3 Irvine, 68.7; Atkin, 68.3; Fulton, 68.3
Lee, 68.1; Long, 67.1 ; Pegg, 66.9; Chap man, 66.6; Arsenault, 66.1 ; Semple, 66.1 MacAdam, 66.0; Thompson, D., 65.8 Ireton, $6.4 ;$ Mclntyre, $65.3 ;$ Davis,
64.7 . 20 : Morrison, $64.6 ;$ Clemens, $64.3 ;$ Watt, 63.0; Morton, 62.8; Wadsworth, 61.0; Kay, 60.9; Goudie, 60.6 ; Pineau 60.3 *176; Edwards, 60.0 ; Rowlands,
595
 $\begin{array}{llll}\text { Shoemaker, } & 58.4 & w_{12} ; & \text { Stoddart, } \\ 57.8 & * 11,20 ; & \text { Sutherland } \\ \text { Sind }\end{array}$ 57.8 ${ }^{16}$ 16; DuToit, 56.9 ; Matthews, 56.8 ${ }^{166}$; Stirrett, $56.5 * 16$; Keillor, $56.0{ }^{* 20}$
 $54.4{ }^{*}{ }^{*}$, 12 ; Cairnie, $54.2 *$. 511 , 13 . . Lowrie
 W. Y,, $52.6 * 14$, Snyder, $52.6 * 20$ rews, 51.8; Sibbitt, 51.7 * 12 ;' McPharlin, 20: White, S $51.5 * 14$; Wasson, $51.3{ }^{*} 13$, ${ }^{20} 14 ;$ Goode, S., $50.0 * 12,20$; Lindala, 50.0 19; Taylor, 48.4
Failed in subjects marked
3, Econo. Literature; 2, Public Speaking; Meteromogncs: 7 , 1 rench; 5 , Heat:
Chemistry;
, Coll Storage; 8 , Inorganic Chemistry; 9, (Yaal. Chem. (Written);
10 Qual. Chem, Practical); 11, Quantita-
tive 10, Qual. Chemy. (Practical); 11, Quantita-
tive Chemistry;
12, Geology, Organic Chemistry; 13, Cenemistry: 12, Organic Chemistry;
Physology; 1, Cy, Cypt. Botany; 15, Plant Physiology; 14, Crypt. Botany; 15, Plan
Econ. Entom, Syst. Entomology; 17 Econ. Entomoles: 18, Bacteriology, 19
Farm Managemen 21, Fieldagemen'; 20, Sc. of Education
bendry. Husban ry; 22, Animal Hus Wheels

## \section*{ <br> <br> PASCO <br> <br> PASCO Wire Wire <br> <br> 10 Reasons Why <br> <br> 10 Reasons Why PASCO Wire Wheels PASCO Wire Wheels Are Popular} Are Popular

1. They are trued and balanced on a special truing stand and balancing machine.
2. Due to the special method of truing the wheel-thereby securing equal spoke tension-breaking and loosening of spokes is practically eliminated.
3. They save tires because the metal absorbs and radiates heat which is fatal to tires.
4. PASCO wire wheels are five times the strength of any wood wheel, size for size.
5. The tangent method of spoke lacing gives greater curb clearance.
6. The spokes do not interfere with the valve stem-the largest sized air chuck can be used.
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9. Their symmetry enhances the beauty of your car.
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of different ages, both sexe WELDWOOD FARM Small pigs of "Weldwood" r's Advocate London On David A. Ashworth - Denfield, Ont. Parmerb ARSHIRES



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Ram Lambes Shoarling and older Ramma Wednesday, July 28th, 1920 When many grand specimens of the breed will be

 These eales will ofer a unique opportunity to
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quirements
oor the forthcoming season. For particulars and catalogues in due course, of
the secretary the escreary.
W. J. WoFF, 49 Canal, Selisburry, Engliend Lakeview Yorkshires If you want brood sows of any age, stock boars of JoHNO DUCK, ${ }^{\text {Ir }}$ Shropshire Yearling Ewes bred. to bibbyd eww lambs gired by him. Two Shorthorn buila.
Two Clydesale estallions. W. H. PUGH, Myrte Station, Ont.

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DOMINION INNER TUBES insure perfectly balanced tires. DOMINION TIRE ACCESSORIES enable you to repair the small cuts, holes and bruises, that frequently occur, and thus make tires last longer. niciob M( westrie Sold by The Best Dioughout Canada.
Sold by the Best Déalers by using it for light trucking as well as for pleasure, let it do its best work and give you its greatest pleasure, by equipping it with DOMINION TIRES.
, Thely, The da as Contributing to Great Nation, both of
ed with commendable ag the interest mani, the large auditorium churches was crowdea village and surroundthe school serves so be described as one of ear. Bural section, and athers" has developed ation public school and , at present under tie of Principal the higher carries the students culation and Normal school three teachers f approximately 10 ic school-rooms, and
inuation school. Any inuation schoor. a fee of 50 cents per continuation school lent in the section or uniform fee of $\$ 10$
means of these fees grants the levy ypon grants the levy upon
e section is stated by e section is stated by
rer to be very little ordinary rural public joining districts. A rried on and punils
e in autumn school be added that uat ion department
in succession taken s in succession taked
standing compared Standing compaions,
tional institutions type of work. It can jointly accomstantially the con-
without the name thout conveyances. ation pupils drive hey often act as , the village being a centre for farmer

A Reliable Scale Takes the Guess Out of Selling
SCALES on the farm will save you money. They take the doubt out of your business transactions. Even the smallest
 grocer who has only about one-twentieth as much money invested as the average farmer, and does not do nearly the amount of business, has a pair of scales.

The Renfrew Handy Two-Wheel Truck Scale will weïgh anything from 1 lb . to $2,000 \mathrm{lbs}$. It can be wheeled around as easily as an ordinary truck, and when not in use can be tipped up and stood in a corner out of the way. The


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will weigh accurately wherever you use it, whether in the barn, on the road, or in the field. It is self-adjusting, and will weigh accurately on uneven ground. This makes it particularly desirable as a farm scale. There is no need of having to level up the scale every time you use it.

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Branches -
Montreal, Que.
The Happy Farmer Tractor
Sussex, N.B.
Milwaukee, U.S.A.


[^0]:    LONDON, ONTARIO, MAY 13, 1920.
    No. 1442

[^1]:    mane

[^2]:    Edron "The Farmer's Advocate" hat it is the leading farm to your paper would not be without it. I was unable 10 get new subscribers as everybody
    takesit around here
    Rusell $\mathrm{Co}_{\mathrm{o}}$, Ont. R. Brown.

