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 the wood that they could reach and pull
down from the forerat trees, using only
their shoupherd't crooks.


EDITORIAL.

| undred-million-dollar increase in the adian field crops for 1909, is the |
| :---: |

Fruits of Forty-four Years' Effort.
a word of retrospect and promise may be fittingly indulged. How many readers ever pause to consider what this paper represents? Briefly, it represents forty-four years of earnest
striving for a definite purpose-to produce a firstlass agricultural journal at a reasonable price, and therehy benefit the agricultural industry. It in the business before it was put on a paying basis but since the turning point it has constantly improved, each year's profits contributing to the betterment of the paper during the succeeding twelvemonth. The paper to-day is thus not the product of one man's effort, nor of the whole present staff. It is the cumulative product of forty-four years' effort of publishers, editors and patrons, representing continual acquisition of experience, knowledge, prestige and infuence. On file in this office, available for present use, is the All this poes to produce a tical and more reliable paper than would be pos sible for a new publication in the field. ". The Farmer's Advocate " is what it has grown to be, and, if the witness of friends is to be taken,
gro:vs better all the time. You, as a subscriber, get the benefit of the constant improvement and progress in the form of more pages of better mat Take the matter of size alone. In 1904, when the paper was first made a weekly, the year's Volumes comprised 1,831 pages. Last year there
were 2,104 , or nearly 300 more. That alone would were 2,104, or nearly 300 more. That alone would
make a good-sized book. To be sure, advertising has increased, but the paper has been enlarged whenever the amount of advertising warranted the extra size, and the advertising pages themselves are a useful part of the paper. Take the illustra tions: In 1907 we indexed 524 ; in 1909, 673.
Fut, of course, the greatest gain is in quality. History-making developments or discoveries in every branch of agriculture are published accu ately and promptly in " The Farmer's Advocate,' largely on the strength of direct, first-hand infor perience are kept before our readers in the most instructive and timely manner.
Helpful, stimulating correspondence is published from every corner of the country, while mote information are a regular feature. Through the Questions and Answers Department a wealth of information is always on tap. The markets of sur leading centers are accurately reported by the most painstaking of correspondents, ever alert for the producer's interest. The Home Magazine is most capably conducted by a special editor, who
devotes her whole time to the work assisted, besides, by a most acceptable staff of correspondents. This department alone is worth the subBy prizes for results in roadmaking, and by orchurd demonstration work, the paper has allied itself in a very practical manner with agricultural For the coming year, plans have been made for Several special features, one of which is the series miss (ertain theeds, which no stockman should to disclose. And all this we give you for three cents a
week. In reading, as in no other article, it pays thing but the best. This paper pives the fruit forty-four years' experience to each subscriber for $\$ 1.50$ a vear. To many a farmer it has been
ngle i the greatest bargain in agricultural be it is the greatest bargain in agricultural reading ever fiered Canadian farmers.
The results set forth above could not have been active supcountry The mutual relationship between publishers and patrons has been to the advantage of both. Every penson who has contributed of his experience, or has put forth effort to extend our circulation, has thereby contributed to the making of a better paper. For the support of the past we are grateful. For the future, we can honestly promise renewed efforts to excel in the production a high-class journal that will promote and relect credit upon Canadian agriculture:

Aptificial Bleaching of Floup

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\begin{aligned}
& \text { Onir references to a recent news-item that four- } \\
& \text { een carloads of flour had been seized by the } U \text {. } \mathrm{S} \text {. }
\end{aligned}
$$

Is of flour had been seized by the U. S. Department of Agriculture for violation of the order prohibiting the artificial bleaching of flour by yas or electrical processes, has been the occa sion of interesting correspondence on the subject. The head of one extensive milling establishment in Ontario writes that, "The millers of the United States, being satisfied that there is no injury done o the flour (by artificial breaching), have, after months of fighting, forced the Department to bring action in the courts against some mill or mills using thê bleacher, and bave the courts deide as to whether the bleaching is contrary to the Pure Food Law." The same correspondent states that the first case must be brought into court not later than the 15th of February next. He also adds that the subject has been fully considered iu Great Britain, and decided by the Privy Council, that there are no harmful resulte arising from the bleaching of flour by gas or electrical rocess, as practiced in this country.
Inquiry of Prof. Harcourt brings the informaNon that a machine for bleaching flour by the Alop process has becn installed in the Laboratory of the complex investigation requisite to advance cision, he is maturally non-commital to whether the effects on the flour are harmiul or not Prof. Alway, of the Agricultural Experiment Station, Nebraska, concluded a report of an extensive investigation with the statement that nitrogen salts in large doses are harmful, but the quantity in carefully-bleached flour is so small hat is of no physiorogical importance ; also, hat the use of nitrogen peroxide in the quantities employed by the millers of Nebraska whitens the high-grade $\mathbb{C o u r s}$ and the resulting bread, withor weight and without ading sube sufficient quantities to be injurious.
Professors Ladd and Stallings. of North bakota Station, conclude their report of North vestigation with the charge that the nitrous oxide remaining in the four after bleaching is physiologically active, and is injurious to the quality of the gluten ; further, that the process permits lowgrade flours to be passed off for high-grades patents
To the layman, the perusal of these reports, with their conflicting conclusions, proves nothing but the difficulty of the problem. In a matter afa article as bread any reasonable expense suc curred by Government in discovering and publish ing the truth, and the whole truth, is amply justi-
 largest associations is that all their early apples, are kept, and that he has had cotisiderable experi

THE FARMER'S ADVOCATE and Home Magazine.
the leading agricultural journal in the Domint

John weld, managre
Farmer's abvocate
THE FARMER'S ADVOCAT
is published every Thursday
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 men, gardeners, stockmen and home-makers, of any publication
in Canada




 5. THE RLAW I $\begin{gathered}\text { sibe ntil } \\ \text { discontinued } \\ \text { den }\end{gathered}$
discontinued
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of address should give the old a well as the new P. Po, adidres
WE INVITE FARMERS to write us on any
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ALOMMUIC Mith this paper
individual con $\qquad$
Eastern Experience with Boxpacking. such as Duchess, Astrachan, Wealthy, Snow, Alex ander, etc., bring far better returns when packed In the bushel box. One of them reports making as much per box on the carly fruit as per barrel
on the winter fruit. One good thing about the box package is that If growers will keep, in mind that the box packar should not contain anything other than the best of our fruit, we can soon work up a splendid reputat
Lion for this package. If, however, it becomes merely another outlet for low-grade fruit our eputation wili suffer accordingly.
There is this point, too, as Mr Mexill math
tear in his paper read before the Quebec pomo logical and Fruit-growing societs, the market for customens have to be sought out at first. To derive the best returns from box-packing, it must estallichod that anter yenr, and "reputation establish
money.


## The Colt-training Question.

 our readers for commemt on uniticism of the methods of colt-training outlinal in the prizewinning articles recontly publishad in these columns on that subject have been receised. mut all of which havebeen complimentary or commendatorv, and some of which have been decidedly critical. The prin cipal point to which weception hats been takem the competitum ther is at stiking similarity in th
methods of education suggested, such as the carl
accustoming of the foal to bo handlecl. hallerad nut taught the lessons of sulmisuion to the will of his be admitted that there is sume reason in this com. local scheme can bee proceeded with tills, submitted plaint. since "time is mones or it "cquivalent, responsibility imposed by the Act on the Depart-
on the farm, as in other worcupations, and especial- mant is the control oi tenant-purchasers in the
ly in these times, when suitable help is so difficult mater oi timber-cetting, a duty formerly entruct to secure he when sultable help is so difficult the the Land (ommission, but very laxly observed. the conetime for any readers that too much mathasis has hared to some readers that too much emphasis haw been attached
to this earls training, and to some of the later
phases of the undertahine, it mas, at the same time be accepted as sound doctrine, and adopted
to the extent to which time arailable will admit. Another coincidence is that the authors of the
pricewinning estanss have evidently dealt principally lighter. or drivinge, class of honse, which necessaril
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$\qquad$ hand at present, two of which are of the carriage lass, with tempers requiring careful treatment the third being
pasily trained.

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enthusiasm his chlehralWhich, however, are tuit tontlatione conclu-. 12 puunds. The boxes cost us 15 cent
cemts to pack a barrel.ounds (the quantity in a barred is cents, 1s:did cold simedvantage isa barcel. esper hally was at the clost as good as salling tion

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THE FARMER'S ADVOCATE.
Januaki © 6,1910 THE EhOLUTIOX OF HRISH HORSLE SCHEMES
Perhaps he best ieature of the recent meeting cussion on lrish horse-ureeting, the subject being introduced by l'rof. Lampbell, of the Lepartment great detail the history of the schemes adouted during the past nne jears. Three kinds of eliort
are comprised in the scheme at present in operaare comprised in the scheme at present in opera-
tion: (1) 1he annual registration of stallions
 sires and their resale to farmers; and ${ }^{(3)}$ the
granting of ser ice nominations to mares. ${ }^{\text {Con- }}$ Considerable moditications have been made in the schemes from time to time, the most important
undoubtedly being in 1906 , when the registration of cart-horse stallions (e. g., (1ydesdales and
shires) was discontinued, Shires) was discontinued, except in special and
clearly-defined districts. Concurrently with this step, the hulf-bred stalion of the hunter or Irish draft type was first recognized, and the attention of the lepartment was forced to this class of sire
by reason oi the difficulty of getting a sufficient number of suitable Thoroughbreds at possible year 1906 , revealed the disquieting fact that, of known of fully 2, uon. The owners of these were then asi ed to submit them for examination, but
only 36 : were put forward, and of these only 12 What the llepartment now appear to be striving for is a list of $1,0 C 0$, instead of 300 , registered stall ons, and their policy is to secure this withbreeds, as the reputation of the Irish horse rests largely on its freedom from cart.horse blood.
Rather do they recogn'ze the necessity of finding sires of the same type and blood as the ordinary horse of the country. Plenty of good half-bred
colts are raised in Ireland, but the Ilepartment are iaced with the dillculty that, under present con a gelding than as a sire." In order to insur that the best shall be retained ior breeding, two carried out, and consists of the purchase by the Department of promising colts which would other-
wise be castrated as likely hunters, and their rearing on the Department's farms till three years of
age, when they are sold to private owners. The other scheme is to subsidize breeders by offering
them substantial prices for suitable entire colts sullmitted for purchase as three-sear-olds. This
is the French method, but is not iavored In order to meet the requirements of those who specially go in for harness horses, the nepart-
ment propose to introduce, as an experiment, some Normandy sires, which they state are bomewha
similar to the native Irish type, but more "har nessy." The Hackney has Iong since been em-
phatically pronouncad against, but, judging by opinions so far expressed, the public do not seem
to be greatly enamored with the suggested resor to French sires.
To strengthen whatever scheme may prevail, the
need for licensing all slallions stunding for public need for licensing all staliious standing for public
service is heing more clearly realized every day, and the ('ouncil oi igriculture have resolved to
ask the Vice-1'resident of the Nepartment (who is with this pressing matter. It is not sought to treat owners of existing low-grade sires too harsh-
ly, but father to give them every facility to get better ones. The Council were inclined to accept
only Thoroushbred sires serving Thoroughbred
marns exclusiter mares exclusively.
The registered sires are also to be overhauled It transpired, in the course of the discussion, that opinion, on the fruitfuluess and the soundness of the progeny of their local registered sires, with a
view to the elimination of all that may not be "FMERALD ISLE

Canadian farmers have never been favored with
more prosperous times than now nearly every line of agricultural production are en
couracine, white somp are atmost fatulousty high
the heter duction, while also enhanced, has not increased in proportion to the possible returns The margin
hetween cost of production and silling price was never hefore so wide. Migh prices, howere, are
hut an Aggravation to him with nothing to sell
More hogs. more cattle, more sheen, more horses more poultry, more clover, more corn, more silos Wrcte hlalia, more roots, more soiline crons, more
crops-those that vield of them), more intensive
charge returns! But will not increased product ion lower prices? No
disastrously. Incrensed production is necessary to supply increasing demand. Particularly is this
irue of the better grades of produce. IAhor? We, that is a problem, but not insurmountable
Managernent will solve it. Tabor-savinex mothods hent bv the year, with good treatment, will

## HORSES.

Training the Colt.
The colt should know its master; also, the
master should know the colt. He should be hanclled sufficiently, and in such a way as to thorfeel that man is his friend. When this him to has been once established, the training will be more easily and successfully accomplished. Give the colt its name, and teach it to come allowing the colt to lick it from the hand.
When about a week old, get it to lead in the box stall, the trainer standing on the near side, with the left hand over the face; the right hand should be on the top of the animal's neck. Now,
gently push the colt away from you until it will lead. When the command, "Whoa !" is given, hold the colt still until it is again told to come.
In haltering, which may be done any time after In haltering, which may be done any time after from the near side, holding the halter in both hands, allowing the colt plenty of time in which

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\begin{aligned}
& \text { irst against one side, then the other, Unfasten- } \\
& \text { ing the rope, I turn the colt around, and lead it } \\
& \text { off, meanwhile standing on the near side, with the }
\end{aligned}
$$ to smell it. When all fear is gone, hold the

halter up in the left hand, and, with the right hater up in the left hand, and, with the righ
hand over the colt's neck, reach the strap, and quietly and quickly draw on and buckle the halter. Provide a suitable rope, ten or twelve feet long, Attach same to the halter-ring, and tell the colt
to come. Teach it to circle, going first to the near, then to the right. Lead it into a narrow stall, run manger a couple of turns, giving the colt about three feet of a tie-rope. Hold the slack rope in the hand until the colt ceases to pull back. This time. Now tie the colt securcly and minutes alone for an hour or two, when it may be allowed
loose with the dam. It has learnt that it could neither break the halter nor get away, The foal. kindl, is given its liberty ior the next two years, halter occasionally
 harness. At that age the colt has less streng1t
than when older, has not the disposition to resist co, readil, and will accuire its lessons more easily. Taking the single harness, put the hack
hand over the right shoulder, and enter the stall hand over the right shoulder, and enter the stal to cee and smell the harness Now gently put
the backhand over the back, iondling the colt while you get the crunper and breeching in place hext, adinst the breast-collar, bringing the traces
back, and making them secure in the breching
Vow put an the hidlo low put on the bridle, with check in Mace, and hact the andmal out into an enclosed yard aiter it Nrive lines hack harness the colt acain, bringing the drive lines hack through the shaft loons. and have a mad-rone twelve or fifteen feet inne. having one
end of it run throngh the near ring of the bridle,
ander the iaw, and fastened in the right ring

Holding the rope in the left hand, wet the colt to circle the near way until you can keep well becommence to drive him, tapping him gently with the whip when required.
After getting the animal to drive nicely with Aiter getting the animal to drive nicely with
the lines, teach it to back. The trainer should stand facing the animal, and, taking a ring of the
bridle-bit in each hand, as he gives the command bridle-bit in each hand, as he gives the command
" Back!" he should gently press back on the bit repeating as often as is necessary, until the colt will back promptly at the command This accomplished. gently stroke and pet the animal, giving it a slice of apple or carrot, or some sugar

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\begin{aligned}
& \text { atter each exercise as a reward for obedience. } \\
& \text { When hitching, I face the cart into a stone wall }
\end{aligned}
$$

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\begin{aligned}
& \text { When hitching, I face the cart into a stone wall } \\
& \text { or a building in which there has been placed a ring }
\end{aligned}
$$

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& \text { curely tied to this, I gently pull the shafts up, up, } \\
& \text { ineanwhile speaking kindly to the animal. I first }
\end{aligned}
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\begin{aligned}
& \text { meanwhile speaking kindly to the animal. I first } \\
& \text { hitch the traces, then the hold-backs, and while }
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$$

The colt remains tied I push the cart up gently,

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& \text { and then pull it back again. This is repeated } \\
& \text { two or three times, and then the shafts are brought } \\
& \text { first }
\end{aligned}
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\begin{aligned}
& \text { two or three times, and then the shafts are brought } \\
& \text { tirst against one side, then the other, Unfasten- } \\
& \text { ing the rope, I turn the colt around, and lead it }
\end{aligned}
$$ off, meanwhile standing on the near side, with the

lead rope in the left hand, and the lines in the lead rope in the left hand, and the lines in the
right, the latter resting on the shaft to steady
it.
When the colt will go so that it will drive ofi When the command is given, exercise it for not
more than two hours during the first few days that it is hitched. I never break a colt to drive with a loose line, but I train him to be a fast horse which will mover, and a well-mannered My training along this line of amusement I owe o my father. I felt that I had been fully rewarded for my labor and pains, when the different and Dungannon, presented me with the first prize or hest lady driver for four years in succession $t$ each place. (MISS) ANNIE W. GREEN.
Huron (

Remedy for Tail Switching
I noticed in your last week's issue someone asking a remedy for tail-switching. I have found
the following method to bring good results: Take two straps, about one inch wide, that will : reach :rom the crupper to the breeching. Have loops made in both ends of these straps, so that the is for the breeching to be slipped through (the lattur loop should be large enough to permit the 4 rap to slide on the hreeching easily). Have two
small strays, with buckles attached. small strayp, with buckles attached; sew one about six inches from the top of the loop through which the crupper will run. Place one on each side of the mare, and buckle the small straps
around the bone of her tail, under the hair. With Chis anpliance, she can move her tail, but not far enough to allow her to catch the line.
$\qquad$ therefore, the habit likely won't he of long stand-
ing if the ahove anpliance will he put


An Educated Driving Hors
of that habit. this habit is to tie up the tail, and put a sevenpound weight in the inside of the hair. This
extra weight keeps the animal from switching the but not so humane as the above. Docking would not secure the desired effect.
Brant Co.. Ont.
(iEO. I. SUTHERLIND.

Unsatisfactory Syndicate Experience.

I have just read your editorial on stallion synI have just read your editorial on stallion syn-
dicates. You think that the evils of syndicating would be done away with by having several a purchase. Well, that very thing was tried up her lous horse-owner ever did up a lot of farmers worse than we were done up, as the writer of this was one of the feeced. ing was called to choose a couple of the members to purchase a horse. One of the men chosen was this fall acting as expert judge, at fall fairs, and the other-well, at the present another horse fraud. Those two worthies went to a certain horse firm, and entered into a secret arrangement, which was were to reserve back $\$ 200$ in cash and $\$ 400$ in stock, for which they agreed to take a horse which was not worth much more than half what they paid for him. Cnfortunately, we did not find their ill-gotten gains from them and let them go instead of having them sent down for fraud. The horse proved to be a worthless animal, only leal
ing fifteen colts from eighty-five mares, and, after running him at a loss the second year, we cepted about one-quarter what he cost us, and
no doubt he was used again and again to fleece Note-Exceptions to alles This cas would seem to have been one of the unfortunate exceptions. Nevertheless, the syndicate, organized been the means of intioducing good horses into many districts. The experience indicates, howvigilance should be exercised by every party to the The thirty-second volume of the British Clydes dale Studbook, about to be issued, will be, we
are promised, the largest ever published. What's he matter with the cild

LIVE STOCK.
Holstein-Friesian Cattle.
By W. G. Ellis.
These are what are hnown on the Continent of
Europe as North Holland cattle. But in Holland. as in the British Isles, there are many differe
types of the bovine race. We in America gave tomer these cattle a new name, Holstein-Friesian, whic although not correctly designating the land their nativ
described by the Holstein-Friesian breeders of
America as being large black-and-white, improved cattle, bred in North Holland and the neighboring The first volume of the Netherland Herdbook for The first volume of the Netherland Herdbook for
North Holland cattle gives the following information: "The pedigree of the Netherland (North Helland) cattle dates back farther than two thou-
sand vears. The form, proper to the breed, is owing entirely to climate, housing, feeding, tending, and manner of treatment, having remained the same
for hundreds of years. Hence, th." cattle have ttained a distinct type, which, through inher This type has undergone a gradual change
america. chiefly owing to the fact that the rations here contain a larger
concentrated food than they feceiving in foreir thative land, the general hatit of of Holstein-Friesian milk product, as a const quence, being much improved. It is largely ow-
ine to this fact that the prejudices existing 20
vearg ago against these catule are noniovistont o-day.
The earliest knowledge of Holstein cattle heing mported into America was about the year 1613. nundred a and eighty, vars later, The Holland I And o. wera known to have shipped to America cight At different periodese ani-
dent of the American association of breeders of realized under ordinary conditions; but as quanHolsteins, made an importation of a bull and four tity of production and persistency of milking durcows A few years later, Hon. Garrett S. Miller ing long periods are well-known characteristics of made another importation, consisting of a bull and this breed, he should probably anticipate a yield
three cows. (Others quickly fell in line, and in from a two-year-old, fairly well cared for, of from 1872 the first herdbook in America was printed, 5,000 to 6,000 pounds of milk in ten months, in registering 56 bulls and $7 T$ cows. creasing each succeecting jear, until, at five years About ten years later the fame of these excep- oid, he should expect irom seven to nine thousand
tional animals spread into Canada, and excited pounds. Of coursc, if he wishes to give them the attention of ontario's prosperous ceptional care, and feed ver: heavily, their yields
 Friesian cow. A. C Hallman, New Dundee: Wm. Shunk, Sherwood; R. S. Stevenson, Ancaster: R
Howse Crump. Masonville : H. Rollert. Cassel;

 1901 annual meeting, decided t
 George, were conspicuous among the early Cana- registered animals, entered for a record test, are dian importers, and many of these pioneer im- properly classitied according to age, the date of
porters still occupy positions in the front rank of calving, date of test commencement, and date of Canadian Holstein-Frisian breeders. The closing is noted. The total quantity of milk issued their first herdbook in 1892 breeder A. C The toct is conducted under the inspection of Hallman securing the honor of registering the first an appointee of the superintendent of an agriculbull and the first cow. This first volume contains tural college or an experimental station. The inthen, in the face of national prejudice the slack- ing inctuding in exery case every person assist-and-white cattle have grown into strong favor, and mal, is required to make a very sweeping affidavit to-dav the records of the Canadian Holstein- before a commissioner notary public, or justice of Friesian Association stand out in marked contrast the peace, In case the result is considered abnorWith those of other dairy breeds, for which we are mal, a 24-hour test is inmediately made under the Holstein-Friesian cows. It is a breed of dairy which is borne by the Association. catte among which it is hard to find culls.
The Holstein-Friesian breed excels in milk pro- periods, but now a breeder may have conducted a duction, it is superior for veal production, and seven, fourteon or thirty-day or other length a vactuable for beef production. The calves are time, test. Also, he may have a successful seven-
valut

another seven - day
test eight months
after calving, in the
same lactation pe riode providing her
condition conforms III It ite test.
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arpe at birth, and grow and fatten with great to its Record of Merit, based on official in addition West Friesland have alwavi avoided indand and day tests, a Record of lerformance the same as other tained Consequently, this breed has main- in its herdbook sarly have adopted, publishing thus well in high standard of vital force, and does under officially supervised private tection made Northern Russia. In Clanada including that of the Association does not guarantee the re re furally possess. Individuals of this breed na- such that fairly accurate records of production ar They are good feeders, being by no means choice. Holstmin cows had the latter part of October, 325
in the quality of their food, consuming freel the for Record of Per
 but cass to diopose of the more costly commercial The American Holstrin-Frinsian Association has



Hampshire Down Yearling Wethers.
tormance have been registered. The superintend-
ent of Advanced Registry, in his report to the annual meeting, in June last, stated that the list of
cows having produced in excess of 24 pounds but ter-fat in seven days then numbered 34 , while 41 full-aged cows appear in the prize-list of the seven-
day division, the last of which has a fat producpearing in the junior two-year-old class, all sho a production in excess of 13.9 pounds butter-fa pasthermore, the report shows that, during th past fiscal year, 2.351 animals tested under the
Advanced Registry, of which one-half were heifen with first or second calves, produced in seven con secutive days, an average of 395.2 pounds milk
containing 13.681 pounds 56.5 pounds, or 27 quarts of milk, equivalent to of the best commercial butter per week 16 pounds has made a to say that no other breed of cattle or nearly so large a nearly equal to this for so large est, thate, for a single cow's record in a year's 27.4:32 pounds milk, and $1,164.64$ poundsa, namely hat of Grace Fayne Second's Homestead, of 35 ,55 butter in 30 days, stand out in bold relief as un

Winter Steer-feeding Fural Experiment four years the Indiana Agricul- at Lafayette, has conthe results in bulletins issued yearly. and in bullishetin 136, issued lately, the details are given of experinents carried on last winter, beginning Nov. 17 th,
and continuing for six months. The object of this work was to obtain additional information on the following problems in feeding beef cattle: "The
Iniluence of Age on Isconomy and Profit in . niluence of Age on Economy and Profit in Fat-
tening Steers in Winter" " Corn Silare as tening Steers in Winter", "Corn Silage as a
Roughage in Fattening Two-year-old Steers ",
lo
Cottonsecd Meal as a Supplement Cottonsecd Meal as a Supplement to Corn in It is vs. Long Feeding Periods." out that conditions in Indiana hast fall were so unfavorable that many feed-lots The summer of 19018 was one of prolonged drouth. resulting in thinner grass cattle, and poor vield and high price of corn. The experimenters, in common with other feeders, had to face these im-
avorable conditions, and yet they are able to re-
port that a reasonable profit was secured from all The manner of cattle-fattening about the same ers very materially from that pursued by Canahan feeders, but, from the conclusions arrived at. usiness on this side of the line. All cattle were the lots, the win hole time Corn and meal were fod in troumh on the yard twice a day, roughage in racks. DifFing from the practice of some feeders in the corn belt who keep grain continually hefore fattening
attle, only as much concentrated food was given The Water could be taken at will.
 The values placed upon the animals both at the

of guin and proht per steer increased with the age
equal yo-year-old cattle, placed in the feed-lot in higher finish during given a fult feed, attain a either yearlings or calves. The margin between buying and selling prices of yearlings and two-year-old steers was $\$ 2.25$ per
hundred ; of calves $\$ 200$ An increase of 10 c . per bush. in the price of cor required a corresponding increase in the selling price of two-year-olds, 41 cents per hundred; of earlings, 42 cents per hundred; of calves, 40 An increase of 50 cents per hundred in the original cost of cattle required an increase of 29 3 cents per hundred in the selling price of calves, two-year-olds.
The amount of capital required to handle the The amount catlle increases with their age. pings increased with the produced from of the cattle.
The price received per bushel for corn w
cents when fed to calves, 78.6 cents when
ents when fed to calves, 78.6 cents when fed to
yearlings, and 79.3 cents when fed to earlings, and 79.3 cents when fed to two-year-
olds during the winter of 1908 . head was $\$ 6.73$ on calves, $\$ 10.84$ on yearlings, and $\$ 12.79$ on two-year-olds from a six-months'
feeding period. feeding period.
The profit per dollar invested in cattle, hogs and feeds for six months was 12.5 cents in feeding
calves, 13.7 cents in feeding yearlings, and 12.5 calves, 13.7 cents in feeding yearlings, and 12.5
cents in ieeding two-year-olds. A ration of shelled corn. cottonseed meal and corn silage, without hay, proved to be the most
efficient ration tested for fattening two-vear-old steers, as shown by the rate fattening two-year-old and finish of the cattie. The addition of corn silage to a ration of shelled conn, cottonsed meal and clover hay, rehigher finish on the catule. Corn silage has a beneficial effect in causing
cattle to shed their winter coat earlier than those attle to shed their winter coat earlier than those eceiving the same ration without the corn silage.
When corn silage is used, there is a smaller consumption of grain than where it is omitted from The addition of of shelled corn and cotover hay meal to a ration rapid and cheaper gain, a higher finish, and a
silage fattened more rapidly required loss feet in slage fattened more rapidly, required less feed in ish, distributed the fat more evenly over the car cass, had a higher market value, and returned
greater profit yer head than similar cattle fed without using these feeds. The price received during the winter of 1908-9
per bushel of corn, fed in connection with clove hav, was 73.1 cents; in connection with clover tion with clover has, coitonseed meal and cor silage, 85.8 cents ; and in connection w
seed meal and corn silage, 96.7 cents. tion of concentrates to roughage that "long fed
cattle. "Short-fed" cattle make a greater daily gai long-fed " cattle. it from a feeding period of 180 do ins than a fron The margin necessary to prevent loss on ied"' was $\$ 1.41$ per hundred ; on "long-fed'" cattle During the period in the feed-lot there was a greater profit from were ng heavy, fleshy feeders than from feeding lighte fed two months longer, the profit per cattle wer also on the investinent, was practically the same The corn fed to "short-fed "ccattle had a feed-
ing value of 80.3 cents per bushel or 25 cent more than the market value when fed. or 25 cents to the "long-fed" cattle, a value of ' 79.3 cents, or 20.5 cents more than market value when fed. hat, while, as is pointed be drawn to the fact more profitable for the man who raises his own steers to fatten them before they reaeh the age
of two years, yet, for the feeder who buys in cattle, animals of greater age are often more proftable. Also, to the conclusions that the addind clover hay resulted to a ration of shelled corn cheaper gain, a hiosulted in a more rapild and profit per steer, and that when sillage was further dided to the ration the result was a still more before.

Sheep at Our Agpicultural Colleges
The system of keeping a couple of breeds of Agricultural Colloges, is not, according Maodonald of thinking, either in the best intereats of the way dents, nor of the sheep-breeding industry of Canada. What is the first impression the student, when he enters the sheepfold at the College to form it not that these are the princtpal beeeds. I care quite what breed or breeds he may find there, it is best. It has often been said it is next were the possible to keep a breeding flock of all the mutton breeds on one farm, with any degree of success. plan that could be worked out is there no othe dents would have an opportunity of studying the characteristics of eaeh breed, so that they could
go into a college judcing competition go into a college judging competition, such as is
held every year at the International (Chicago) upon at least an equal footing with the other college teams? This alone would be of great value to this banner sheep-breeding ground of North o our college professors, who maniroid benefi we only put the material in their hands to teach


Pure-bred Berkshires

Trom, besides the knowledge pertaining to sheen that each student should carry homie with him. be, whereby this could be accomplished. We have nine distinct breeds in this I'rovince. Suppose each College selects, say, five typical lambs of
each breed, either ewes or wethers each year, and each breed, either ewes or wethers, each year, and
keep them until they are yearlings off. This would mean that there would be a flock of 90 head during part of each year after the first. Repre
sentatives of each breed could then be used in the sentatives of each breed could then be used in the
class-room for the students' benefit, also for the farmers' short course in judging, and should be of untold benefit to the nuany thousand excursionists who visit the College during the month of Junc.
leight here I would say that, in order to make the best impression upon excursionists, the breeds should be kept separate during June, as all varieties of sheep grouped together present a mottled appearance, no matter how good the individua
Ten acres of good pasture, fenced into nine 10 temporarily, would be sullicient for the occ
After the yearlings are done with in the classbest. if ewes were selocted, they should be sold in time for mating ; if wethers, they could be slaughtered at the Winter Fair, for comparison only, not for competition. Or, what would probeach breed, and keep the remainder for the shor: judging course in January, and then send them an abattoir, and have them reported upon. A
report from the colleges as to cost of maintehance, etc., should be of great value, as well ; the sheep could be slaughtered for the College din-ing-room, and thereby cultivate among the stu-
dents an appetite for good, wholesome meat, which dents an appetite for good, wholesome meat, which
would be a good thing for the students, as well as for ontario generally.
In concluding my rambling remarks on this
very important sulyect. I might sav I have no r $h$ jetion to lessening or increasing the number of
head I have named, but I would like to have in free and friendly discussion upon the principle laid
down to find out what farmers, students and prodown to find out what farmers, students and pro-
fessors realls think is hest. Middlesex

Horses Versus Cattle
The Brant Township Farmers' Club, has again summer months. is Foing to a awake a stroneor of 32 , and all indications are that thi
membership will lee greatly increased. had a number of very good meectined. consisting of
delates and discussions on various subiects debates and discussions on various subjiects, and
much valuable information has been passed on
The benefit derived from Farmerg' The benefit derived from Farmerg' Clubs is not
only learning from others, but it is also an inenti e towards self-education, which is in the end by
ar the inost important. To know for cours lif becauce you have thought it out to your own sat-
isfaction. is of far more benefit to you than to have it told to coll. This sort of education will
bring indenendence, while to have things told fosters derendence. The reason that farmers are
oming more to the front is berause they are get-
ting to he more of a thinking community. Former-

Sy, their activity consisted mostly of physica!
hard labor; but now, when a little mental exircis is mixed with the labor, we find it much easier to get along. To know why we do certain things goes a great way to making work take on the more mind stay, and we Mil always frna that the it is performed we mix with our work, the easic are interested in it. The more we know of the Iaws of nature, the more pleasure we derive iron working in harmony with these laws. cultural matters, hut it has also taken up lighter and perhaps just as important a branch as the agricultural, namely, that of entertainment and culture. We are trying to make our Club
one of all-round development, with special stress, one of all-round development, with special stress
however, on agriculture. A good farmer should be developed on physical, intellectual and mora lines, and, of course. on spiritual lines, too, but
we have not yet seen fit to incorporate this fea

The annual meeting of our Club was held o the even.ng of Novemimer 11 th, and a very pleas
ant time was passed. The meetink was enlivened ant time was passed. The meeting was enlivened
by several solos and instrumental duets, and everybody pronounced it a splendid success. After the anditor's renort and the minutes of the las
meeting were adopted, the previous officers wert meeting were adopted, the previous officers wer
again elected. The balance of the evening was spent listening to a debate on the subject, "Re solved, that raising horses is more desirable than
raising cattle." The debate was well contested, and some very good points were presented on both sides, but many of them lost much of their value because of imperfect presentation. The points on the affirma
tive could the briefly summed up as follows: 1. The feed that we raise for horses is casier on the land than what we raise for cattle
2. Horses are a necessity for farm work. 3. More pleasure can the derived from raising
horses than from raising cattle. 4. There is more recreation in preparing and
train'ng a horse ior market than for preparing a steer. "ne is a pleasure, while the other is work horses. (atte require the urain to be pround while also the charge for chopping
h. Dairying perhaps pays. hetter than raising \& High prives of individual horses cannot be 9. Horses show more life than cattle, and are ()n the negative side. the followins points were 1. Statistics show that there are a srea en a lone way to misel than that cattle which should than horsece a steer is fit ior the market there is sold. forts white, with cattle the main object is milk clear profit secondars and may he regarded as
nents than the coll. sumpect to more serious ail A horse with a serious accident, such as a
broken leg, is only worth his hide, while a cow is always worth her value as beef.
6 . It requires a great deal more care to raise colt than to raise a cali. than horses. 8. The good olti ox team has never been known
o balk this cannot tee said of the horse 9. The horse that produces the high prices so little thought of in many colleges that thes have no piace on the curriculum.
1n. More colts die than calves, and, 11. Because colts are more valuable than
alves, we lose more in such event by raising colts than by raising calves. cattle and dairy produce than exporting horses. 13. The average price of horses sold in Ontario during a certain year brought 10 per cent.
profit over their average valuation before thes were sold, while the average price of cattle sold in
Ortario during the same vear brought 39 per cent profit over the ascrage waluation before they were Affrmative points criticised by negative side Affirmative points citicised bye negative side

1. Horses are not a necessity. |lxen can do all farm work. Horses are becoming obsolete. The automobile, traction engine and flying mahiness are taking their place.
2. It was pointed out that just much pleasare can be derived in caring for cattle as for ${ }^{\text {horses. }}$ 3. The horses that produce the high prices of drawing humanity downwards, while cattle uild humanity up.
Serative points cricised by affirmative side : are too clunsy and unsatisfactory. cattle Aecision of our nest meeting we will discuss . Th most important improtoment I intend to make
during the coming vear.; E. Wlu
Bruce Co Ont

## THE FARM.

Countries that Grow Clover for Seed. itates grow clover for seed purposes? Is it
rown successfully in any of the countries of South Imerica, or Europe, and, also, is it grown to any order of merit, which produces the most alsike clover seed" "hat 1 wish to know, if I can get the intormation, is what countries besides Canada hnd the Lnited states grow alsike clover seed: sume all countries that prodnce alsiketlover seed
will likewise produce profitably all other kinds oi Red clover for seed purposess is grown to a
limited extent in almost all countries having a temperate climate. It is grown in quantity for
commerce in Canada. the Inited states, (ireat
 ustrin-fungary, Russia, norlhern Italy, Swizer-
and. Chili in Kouth America, Now Z,ntand and
 histralia for seed is ats et not "xtensive. Only

THE FARMER'S ADVOCATE.
Dominion Crops for 1909.
The fiscal estimates of production and value of
the field crops, and the per-cent number on hand
and conditions of live stock in Canada have been
given out by the Census and Statistics Oftice at
Ottawa.
The estimates are based on the reports of
large staff of correspondents in every Province
the Dominion. From the Northwest Provinces, in
ddition to the regular correspondents, the office
addition to the regular correspondents, the office
received reports from over 1,000 postmasters.
An area of $30,065,556$ acres oi field crops has
yielded a harvest which, computed at local market
prices, has a value of $\$ 532,992,100$, as compared
with $\$ 432,534,000$ from $27,505,663$ acres last
year. The details of area, yield and value for
each kind of crop are shown in the following
M.

Clover for
$\qquad$
$\qquad$ dry as it might have been before it was qualed to
$\qquad$ Western. States and Canada, to be used by dairy-
men, because they could not afford too use their
own product, showed another phase of the dairy
industry BUTTERMAKING AND MARKETING.
Professor P. A. Campbell, University of Maine,
air of Animal Industry, delivered an able ad-
$\qquad$ stand as was here obtained. Observation and
experience in the district would indicate that 20
pounds of seed on irrigated land is about the right

Hard vs. Soft Maples: Planting, Etc.
with fold underneatith, slipped in parchment-wrapped, cartons
in paper
having the trade-mark of the maker printed there-
on, was, he thought, the ideal way of marketing
lot, and 1 would like the following questions an-

| SOME CORN YIELDS. <br> The heavy yields of corn reported from a few ctions-600 bushels from a little over three acres, own lyy Dr. H. M. Moulton, Cumberland Centre, d 6,325 pounds, raised by Dr. G. M. Twitchell, uburn, on his best acre of flint corn-ould be plicated by any, Prof. Hurd thought. <br> EW IDEA IN BREEDING: BREEDING FROM KNOWN PRODUCERS. <br> The new idea in breeding, the use of males own to get producers, was the prominent feature a paper read by Dr. C. D. Woods, Director of he Maine Experiment Station, and prepared at his xperiment Station. In the experiments at the ation, breeding from hens in advanced registry d given progeny with no better performance quite so good. This had started breeding off another tack. Considering this high-producpower as only one factor, males which hed a tain number of daughters in advanced registry re used as breeders, and indications at the prestime pointed strongly to successful issue. iry experience seemed to confirm the new idea, learned. The whole idea was to an extent in lated bryo, but if the Dairymen's Association desired and would raise funds to maintain it, scientific estigation would be started by the Experiment ation. Prof. Sanborn, of Gilmanton, N. H., |
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At the annual business meeting, W. G. Hunton,
Readfield, was elected president, L. E. McIntire,
Waterville, vice-president : Leon S. Merrill, Solon,
secretary; Rutillus Alden, Winthrop, treasurer
W. K. Hainlin, S. Watenford, trustee, W. K. Haunlin, S. Waterford, trustee. Mr. Alden
was also chosen on the stail of the Experiment
Station council. Station council. $A$ committee was chosen to take Dr. Woods, suggestions relative to breeding under advisement were appointed a committee to push vigorousl the revision of the tariff on cream, with a view
to making it consistent with that on dairy to making it consistent with that on dairy butter. ciety's scope of usefulness.
The exhibit of butter
placed on tables where it cuat fine one, and was after the awards were made. Orin Bent, tested
ton, was the butter. The highest jucge on both cheese were, $96 \frac{1}{\frac{1}{2}}$ on butter
and 98 on cheese. Prof Weld and 98 on cheese. Pror. Werd judged the milk
and cream ; 87 dairymen submitted samples, and and cream; 87 dairymen submitted samples, an
the 348 bottles made the largest collection o these commodities this country has ever seen. Nearly 500 ears of corn were shown, the flin variety predominating. Dr. G. M. Twitchell had
best full acre, the weight in ears being 6325 best full
pounds.

## lce Houses.

glad to have many farmers who would be very who would not begrudge the labor or slight ex
pense involved, are deterred from ginning by an idea that it is a very difficult mat ter to keep ice; that to do so requires special
knowledge and skill. The process is exceedingly simple. great mistake. are deperdent upon three very easily understood principles.
The first is drainage. The ground underneath by drainage. In addition, it is well to maise it a few inches by a layer of cinders, stones, or other porous material through which the water may The second principle is ventilation. Not of the
bottom or sides of the ice-block-that would be ruinous-but of the air-space above. Without venvery warm, as everyone knows; and there is another condition which is relieved by ventilation,
which works more damater and which works more damage than does heat, and
that is dampness. No one can dry ice, of course, by ventilation, but the sawdust covering shouse,
be kept as dry as be kept as dry as possible. The drier it is, the
better a non-conductor is it. The third and main principle is insula-
tion. To secure this, there is nothing better than sawdust. A foot thickness of it on bottom, top and four sides is sufficient. The fresher and
drier it is, the better. If sawdust. cured, cut straw or hay will answer very well There needs to be, however, a double thickness of it to give as good rasults as sawdust. Two A fine, costly building is not necessary. An kind of a structure in which are observed the
three aboveruentioned principles will serve the
purpose : that is it will keep ice purpose ; that is, it will keep ice.
J. A. Ruddick, Dominion Dairy Commissioner than whom there is
where, recommends short posts-nlates, a building with sills-set
tween. $2 \times 15$ inch studding tween, the inside boarding to be of rough inc
lumber, the outside of lumber matched and dresseel
This make This makes a sat isfactor- and very and dressed
building. If it is thought desirab) io to save ox pense, and appearance is not much considered, th efficiency, be dispensed with scarcely any loss
A description of an ice-house which was erecte by n member of our staff over twenty years ago
and which seems good for as much longer, may
be useful. The site is in an old orchard be useful. The site is in an on old orch longer, may
the way, a shady
side situation is desirable. The in side measurement is ten feet square, and the heigh from ground to plate the same. Instead of studt
ding., sills, and short posts for the frame four
cealar hosis. in line on each side. heing made firm at the lowe into the ground Twoty- posts, about three fert
ted and nailes were fit being crossed and lolted strougly tosether at the
corners. A single lining of unplaned inch the was puit on inside the the of unplaned inch board
large dairy-patron ice-house and milk-stand for to a description of an excellent structure of that " The Farmer's Advocate." Christmas Number of patron could afford a smaller and plainer struc

Creameries Discard the Oil Test change from the oil test to creameries win season. A meeting of the officers and test next


A Family of Contadini
mont creameries was held at Ayton, on November at when it was decided to take up this question ineetings were held on Dec. $14 \mathrm{th}, 15 \mathrm{th}, 16 \mathrm{th}$ and
17 th, respectively roted in favor of the change. the patrons agreement was drawn up and signed by the presidents of the respective creameries: Alsfeldt, the officers, Sirectors and patrons of the
craumen Valley, Ayton and Fgremont creameries, acting upon resolutions passed at our
meetings, held on the 14 th , 15 th, 16 th and 17 th meetings, held on the 14 th, $15 \mathrm{th}, 16 \mathrm{th}$ and 17 th
davs of December, 1909 , respectively, do hereby lointly agree to adopt the IRabeock test as a basis Editor :" The Farmer's Advocate Water, that prime essentinl is


The Daipy Conventions.
Onairy conventions are the order of the day in Ontario this week and next. The Eastern Dairymens Convention, at Belleville, will be om before
this issue reaches its readers. The Western Ontario dairymen meet in St. Thormas on Wednesday and Thursday, January 12 th and 13 th. The patrons' session will be Wednesday afternoon.
feature of the convention programme will be usual, announcement of the results of the dairyherd competition, for which, by the way, there have been ten applicants, not counting one who tered in the cheese-factory patrons' section, but there are an unprecedented number (six) in the
creamery section. For the winter dairy exhibicreamery section. For the winter dairy exhibi-
tion, to be held in connection with the convention there has been a very large entry, the number a
week ago being already considerably in excess of week ago being already considerably in excess of
the total last year. Butter shows an especially the total last year. Butter shows an especiake
goon increase, particularly the October makes.
which are already more than double the

## GARDEN: ORCHARD.

Fruit-growing in Sicily. special correspondent of "' The Farmer's Ad
te," Chas. S. Williams, visited the vocate," Chas. S. Williams, visited the Island of
Sicily, off the south-west of Inty. Sicily, off the south-west of Italy, in the Mediterquake that devastated the City of Messina the temains of which were recently shaken Messina, the hock. Mr. Williams pictures it as a fertile and beautiful land, bedecked with flowers and clus tered with the richest of fruits. Small wonder that the people love their home, despite the terretter, illustrated from several original photo-

The Canadian farmer, whether his were rolling fertile valleyg of the in the middle section, or the tilled with our modern implern Provinces, to be saving devices, would, I am certain, look askance overed history, and the scorchineaved rocks older than nating island exported seven billions of lamons darins and produced oranges, grapes, mandarins, almonds, figs, olives. etc., in equally surprising quantities, For sics, etc., in equally
pendent on the tourist or is not defamily who the tourist or the mermbers of the three millions of people mav be called tral, Her cultural. They are poor, but called truly agri-
res
the richer farmers
so much must be carted, by hand of ly donkey, some
times half a dozen times half a dozen
iniles from the vil lage fountain, ulive life in every
ficilian township:
or or, while grapes er during the long drouths,
emoners do not. Sc
he public fountain formes the center
and is to
he Sicilian town he ticilian to
what club
sewing circle, sewing circle " is
ith us. The lavi
tna has thrown
 retaining
miles of vithes cevered
vine vineyards, and
iten is the pead Int-farmer's house,
he pell as what opening of the season of 1910 We solemnty ful powers rest in the Out the above agreement." and integrity to carry covered peak of Mt. Ftan, which dominates the
whole island. In the miles
days see laden with the ripe frait, is an unondin interest. The viness are cut down to within three
or four feet of the ground, that all the strength
may or four feet of the ground, that all the strength
side Italy and France, with the rich greens of the would be, Nearly every where. Then follows men
leaves and the browns of the stones and earth, tion of the special fruit districis make artist's pictures on every side. For the the Niagara and Learmington districts, the An-
vintage, the men, women and children of each napolis and Cornwallis valleys, and in the far farm and its neighborhood are organized to cut West, the Okanagan and the Kootenay sections. and noise, for the Sicilian is not a quiet worker From fifty to one hundred women, each with a half-bushel basket, heaped with the lovely grapes,
on their heads, file along the walk, singing the songs of the country, to a huge room built for
the purpose, where the men and boys, barefoted the purpose, where the men and boys, barefooted sion around the room, forming the human wine
press, which thakes the last drop of juice from press, which takes the last drop of juice from the
grapes, and for which, as yet, no invention has improved upon.
ground, and, with the skins are returned to the other' 'yar's, growth; and the domestic animals like those in this picture, are turned in to eat the grape-leaves, and help prepare the ground
for the next season; for the goats and pigs together clear it of every leaf and weed. I have often wondered what the
good Canadian plow would be in Sicily, on the people, as well as the land, for every bit of the
plowing is done with the crudest spike of wood or iron, driven through a primitive joist-shaped,
oren
hand-hewed log, turning up a very meagre furBut the universal implement with which the earth, is turned over, prepared, and often plante
with, is the common pick of Italy, which those of her sons emigrating to America continue to
use there in the building of steam and trolley railways, better than those of any other race This pick is often the plow, the spade, and the
weeder, while next in utility is the broad wod en hoe. Hand-hewn, rough, and apparently awk ward to handle, it has a field all its own. With creep up a bare bit of mountain-side; and, as soon
as built, earth is handed up with this same hoe which is held there by the new wall, and each ot promptly produces something to repay the he earth idle in Sicily
There are three gatherings of lemons annually wo of oranges and mandarins-the trees heavy February brings forth a wonderful carp wild flowers; the wealth of variety seeme in-
credible, and with the almond blossoms the same credible, and with the almond blossoms the same island. Then, indeed, the Sicilian farmer may orget some of his hardships, and revel in the beauty of his homeland and its
joice in its climate and fertility
If his year has been prosperous, the family onkey is brought out, his gaily-decorated trap market, always by three or four members of the
amily, often borrowing the high, two-wheeled amily, often borrowing the high, two-wheeled prosperous neighbor. CHAS. A. WILLIAMS.

The Canadian Fpuit Industry.
$\qquad$ er at Birmingham, at a meeting oi the Royal Ca-
adian Institute, held at Hotel Metropole, London England, Tuesday, Wecember ith, 1909 Lord trathcona in the chair
The topics dealt with in the paper are familiar

- Canadiaa readens, and need only be mentioned re engaged either in production or distribution oot, as a rule, in both. The modern Canadian ruit-grower is, however, an exception to this rule,
for he must engage in both, and will, if successuevepment of the export fruit trade of Ontario, and following close upon that, the growth of
Nova Scotian fruit exports. The total value of Nova scotian fruit exports. The total value of
green or ripe apples exported from Canada in the
vear ending March 31 st, 1909, was $\$ 4,823,645$, year ending March 31st, 1909, was $\$ 4,823,645$,
Preat Britain receivins practically the whole
irauds in Frauds in packing, and the appointment and work
of inspectors in hindering and detecting these, are eferred to. Government has a arded considerably disseminating information by means of Experimen-
tal Farms, Illustration Stations, and Farmers' Intitutes, also through spraying demonstrations A goad word is said for the Canadian press.
The admirable service rendered by the press, "The admirable service rendered by the press,
more particularly by agricultural journals and hose devoted to horticulture, is unequalled in any f practical experiince for the most part by men raining, printed on good paper, with excellent iland attention of the interests they serve. Their broadening influence, and the practical help they ford by furnishing information, correcting errons, ions, suggesting improved methods or supporting If asked, Where is fruit grown? the answer


Village Fountain in Faormina
Packing Fpauds and Inspectors. In an address by W. A. Mackinnon, Dominion
Trade Commissioner, before the Royal Colonial Institute, of London, England, on the "Canadian where in this , to whe were we here in this issue, there occurs a spicy passage join:
The packing is commonly done by men employed by apple-buyens or speculators, many of British capital. They begin work at the orchards rom which many of the early shipments are exorted direct, and are later on engaged in ware-


Sicilian Goat and Pig.
put up more or less loosely for storage. They are higher life, or at all events to keep withim the limits of error allowed by law to the judgment of gin their task with the best and doubtless they being well by the ultimate purchaser of their handiwork. But, just as the road to perdition is said
to be neatly paved with good intentions to be neatly paved with good intentions, so the the "ace," is well and truly laid with fine, hand some fruit, evenly placed in narrowing circles of
blushing red ; hardly less attractive are the next blushing red; hardly less attractive are the next
two or three layers, aiso carefully placed by hent wedging the first immovably. Then, alas ! comes
a falling olf; whether it be that a giddiness
caused by bending head and shoulders deep in the discussion on high politics brings oblivion of comhon things, or merely that our packer is unable hidden from vision of that smiling "face" now is that he now becomes careloss ; basket after basket of uncertain quality is poured in, and only when the process of "tailing off "is reached does already pencilled on the "head." Grade-mark, more a couple of layers of the best are hand-placed-for might not some captious buyer demand to see the "tail "? - the barrel is pressed, nailed up, and ready for all comers. A fearful
practice, you say, sign oi commercial decadence and moral depravity-copied, surely, from the devious ways of the Red Man. True, though such things have been known, at rare intervals, even on this metropolis. not have you think that such But I would not have you think that such
methods are approved or even winked at by growers or dealers in Canada; on, the contrary, both campaign, educative at first, now punitive, to stamp out these frauds. Mr. McNeill, Chief of the
Fruit Division at Ottawa, has an able staff of inspectors employed in detecting and prosecuting the offences of false marking and packing. The
penalties have been gradually increased, and this penalties have been gradually increased, and this
(last) year the names of convicted (last) year the names of convicted packers have
been published in a Government report. idea of the value and calibre of the inspectors may he gathered from the fact that, when not engaged in actual inspection, they are able to meet fruitgreetings of Farmers' Institutes, to discuss with them, not merely commercial problems, but those having to do with fruit culture in all its aspects.
They give orchard demonstrations of spraying, of They give orchard demonstrations of spraying, of
pruning and grafting, or, at other times, of packing apples in barreis and boxes, and always in the presence of assembled growers, than whom there are no keener critics. An inspector who did not
thoroughly understand his work would have a most uncomfortable time. and would never have a second Histopy of Fruit-growing in the
Annapolis Valley.-III. Annapolis Valley.-III.
Up to this time, 1860, nothing had been done England. In that year was held the great Inter England. In that year was held the great Inter-
national. Exhibition. in London, and Nova Scotia
was represented by many natural products, and
among them was a collection of ton
or fifteen varietices
of apples. These of apples. These
were well displayed, and received much miration. During the nex
year inquiries were year inquiries ware
received from deal-
ers in London. ers in London, signment of applee
to that market,
but the freight
 be prohibitory sels was consider risk, on account of
the length of the

In the autumn In the autum he efforts of few gentlemen in
Halifax, $a$ show Halifax, a show
of fruit and vege-
tables was hold or the purpose of making a selection
to be sent to the
Roval Horticulture Royal Horticulture how of fruit and vegetables made a great auccess taking one silver and seven bronze medals, and received especial notice and praise from most of the leading papers. This success was the immediate ause of the formation of the Fruit-growers' As
sociation and International Show Society of Nove Scutia, which was organized on March 3rd, 1889, and incorporated on the 10th of May, 1864. This Association at once commenced holding
annual exhibitions, and from them sending col lections of fruit for ": Show, Comparison, Nomen clature, and Report" to the Royal Horticulture
Societv,
London. Society, London; Massachusetts Horticultural so for exhibition to all the great showe in Lon

Omaha, Buffalo, and the different Dominion These exhibits were successful in capturing large number of gold, silver and bronze medals and case at the World's Fair in Chicago, in in a glass a number of others have been won since, bringing
the number up to 19 or 20 . This work of the Associ
exhibitions, continued for over 20 years the annual and the many public sent to foreign exhibitions, of the Province, and addressed by many of the largest and most successful fruit-growers, showing
the farmers the advantages and profits to be dethe farmers the advantages and profits to be de-
rived from the careful cultivation of the old, and the best methods of planting new orchards, served ontinuing, especially in the County of King's. The census gives the acres of orchard and garden

|  | 1871 | 1881 | 1891 | 190 |
| :---: | :---: | :---: | :---: | :---: |
|  | Acres. | Acres. | Acres. |  |
| Annapolis | 2,241 | 3,329 | 5,061 | 6,0 |
| King's | 2.916 | 5,179 | 8,481 | 12,9 |
| Hants | 1,105 | 1,960 | 2,256 | 3,0 |
| Nova Scotıa | 13.614 | 21,624 | 30,036 | 32,8 | 1911 will show a still great that the census crease in planting. In proof of this, we have statement made by four of the largest nurserymen Fruit-growers' Association, on December 1st, that they were all sold out for spring delivery, an

wimporting largely to fill orders. and see what advance has been made. From 1860 ply of the local mat much done beyond the supinces. A few small lots had been sent to Londor via mail steamship to Liverpool, and a consider
able trade was being worked up in able trade was being worked up in the export o
Gravensteins to Bostor, at good paying prices Gut that market wastor, at good paying prices
ley iterwards shut by the Ding ley tarif.
was rapidly increased : quite apples to London cargoes were sent by sailite a number of smand
ports: some of these sham ports; some of these ships delivered the local want of ventilation, and long out bad, owing to weather. This was soon found to be with rough Several tramp steamers were loaded at Bay
Fundy ports Fundy ports, and arrangements were made with a to call at Halifax for part cargo of apples London the trade has grown to much larger proportions Anchor liners is long steamers and borrowed regular line sailing every ten days from How a This minroved means of transport has stimu 24,255 Barrels, in 1880 , to 125,121 in 1886 . from
00 in 1892 . $50 n$ non 500 in 1892 : 500,000 in $1896 ; 536,267 \mathrm{in} 197,-$
$651,465 \mathrm{in} 1907 ; \quad 675,463$ in 1908 , vear's eron it is' estimater that from 750,000 and for this shipped, and the various apple barrels have been line of the Dominion Atlantic Railway are reported
full to overflowing have been ranidly this, the local markets, which fromi thls Valley, probably taking one-third of the own towns. large quantities are supplying our foundland, to Prince Edward Island, and to New
Brunswick, while. barrels have been sent to South Africa, and some
to thie West Indind idly, not acreage of orchards in this increasing vary rap.
counties. Lunentharg but in several other
barrels toported a surplus of 6 . ono mate 1 nor export last year: this year they esti rapidly Queen's, Shelburne and Yarmouth , will
supply themselves, and soon have a surplus
fact, orcharding is incres the Provinee, and is making a successs wherever
the proper varieties and methods of cultivation are
used

Visit of Canadian Fruit-growers er at Rirmingham, sends the following extract
from a lewter which he had just received froment
Secret tion: \% I the National Fruit-growers' FederaFederation to onfer to Canadian fruit-growers a
most cordial invitation to visit some of ther
fruit ruit pantations of Fngland. If this visit is arranged. and my Council sincerely hope it will be,
they ulil feel treatly honored at this opportunity
of welcoming Cunadin fyin welcoming Crandian honored at this
The above followed a surgestion made by Mr. Mackinnon m one of his reports to the Iepartment
of Trade and Commerce. that Canadian fruit growers oug
on the Continent, and visit the ports and markets havingland. The Iresident of the Federation self proposed that an official invitation be hent so that if such a party is organized, they should not only visit the markets, but one, at least, of the fruit-growing districts. It is to be hoped that ad antage will be taken by our itruitemen of
this courteous offer.

## POULTRY

$\qquad$
weather. Rut use of corn is a fine thing for co
Green-cut bone, in moderate quantity,
astonishing egg-producer. Have it fresh and
and do not feed to excess.
Laying hens need lime; more of it than they
obtain in grain consumed. Crushed oyster-shell
is cheap and good. Old plaster may also be used.
Those who think " " * * do not require grit, should examine the crop contents of a bird just
ofi the range. Gravel, coal cinders and hard ster olf the range. Gravel, coal cinders and hard stuff
of all descriptions, shapes and sizes may be found up to the dimensions of large grains of corn.

Variety in the grain ration pays well, but let the main reliance be on wheat-tailings, if avail
able, but otherwise, good sound wheat. Notwith standing the tempting price of this staple cereal it is worth more in the form of eggs than as

It is well to give the *irds their morning feed at night, burying it deep in fresh, dry litter, re admit. A flock of chickens are alarmingly will turbed by even the gentlest movement of litter
during the day time, while they are
winter-ogg producer within reach profit await the Yake trouble to seek out and supply a strictly fancy Egas in choicely-flavored, guaranteed fresh eggs as 75 cents and a dollar a dozen. Of course high class of "as absolutely reliable, and a fastidious citizen would not pay such prices The average finest hen fruit, though an increasing number of

## Profitable Poultry-keeping on the

 Farm.
## oints from Professor W. R. Graham's Address the Ontario Winter Fair, Guelph, December

There is no fear of overproduction. In thre
creased from nine of fowls hept in ontario inon the Toronto marhet. In spite of increasing country It would be possible at present to sell Irish ergod There is no kreat a difficult. in efgs or chickens. Farmers have the best chance farmers complain of how hard it is to get hens trouble with will tell you straight what is the hens. Some, of course, will object, and talk about hens getting too fat to lay. That happens
seldom. If a hen is really overfat, hanging do
behind. it is
chickens reared in this way. Food in self-feeders, ard water, are constantly accessible. To pro 3.2 to 3.4 pounds of grain.

The past fall has been the best yet for pullet pril, had Forty-six pullets, hatched the first of fed pullets laid best. Sour milk is betermilkIn at any time than sweet. ast year they had of white Wvandottes, whic ere fed all they wanted, and the feed for them in cents per head per mont be kept from freezing, the reply was : If you house is really cold, keep fowls with rose combs or cut the combs down. The combs of fowle mperature that would nip at once the

## THE FARM BULLETIN

## Prosperity in Essex

opportune time for renewing the past ser as an ploits, so that we may ascertain what lines oo
industry have proven profitable, and also deter mining, as far as possible, those worthy of follow will receive greater benefit from such a process than farmers. Too few ever think of taking stock have been losing investments and' steps punsued for their improvement or elimination. 1., judicious, up-to-date farmer of the wise, care luaring demonstrated by the record of farming energetic, cautious, economic husbandman is iubilant over the returns for 1909. Pessimistic notes come from those who, through lack of energy, care
lessness, slovenliness, or slipshod methods, have miled to secure what they consider to be sufficient remuneration for labor expended. That rapid progress in the direction of prosperity is being
made by the farming community of Essex, is easily
recoornizd decognized. Indications of good times are in evi-
dence. when comparing the present season with that of one year ago. Improvements have multi-
Hied rapidly in that period. Many homes have cen beautified: neat, comfortable, commodione houses crected. with a view to utility, substantiavard extravagances Barns have, style, or outremodelledt in many cases reared upon cement hiock foundations, affording reared upon cement table accommodation. Liberal applications of aint have not onlv added materially to the out
"ard appearance of farm buildings, but also in
reases the powers of recistance Another st riking manifestation of prosperity rained since crops were removed and ander their hurial. Ifeading farmers are recognizing to disability of pushine forward more rapidly the in large measure the " "ottery" aspect of avoid ress is noted in the advanced price of farm prog latimy at prices which a fow yeare changed hand of our most successful fruit-growers, Jisposed Hope of our most successful fruit-growers, disposed of
his fifty acres for $\$ 1.500$ a sum far in advance of
its appraised value five years ago. The main fea
ture in bringine
$\qquad$ $\$ 7,000$ heine paid for a frity is even much higher.
street, while as on Talbot frr property in the neighborhood of choice peach
farms. Fxtensive proparations forms amptensive preparations are being made
for an ample increase in the peach area of 1910
A. Fox hac 1. Fox has over 8 noo young peach trees, suitable
or transplanting in the spring
In your December 23 rd iscun entitled "Corn-growing in Fscex." containing cer-
tain statements which to mum majers of . The
Farmer's Adtocate", Farmer's Advocate"" may serm extravagant. For riter hac so worcefull, presentantiate what the 1. velopment. In fact, it has scarcelv, ressed the nal stage is reached, no sane mandare prophesy ssible the the mast improved style of Iabor-ca thachinery, application of knowledge commani varieties best suited to the sothers: and climate of neninsula, a remarkable increase per acre may
the result That 1 Nop bushels per acree is out

JANUARY 6, 1910

## THE FARMER'S ADVOCATE

Esteemed Old Subscriber
bushels, while there are many ranging from 10
to 125 per acre. The hog-raising industry has received a great
uplift during the past month, which will have a tendency to increase the production, and establish beyond a doubt our claim to being the banner
county in this line of farm product, as well as that of corn throughout the Province. Prices
ranged from $\$ 7.75$ to $\$ 8.15$ per cwt. during ranged from $\$ 7.75$ to $\$ 8.15$ per cwt. during De
cember. Thousands of dollars were paid to farmers of Mersea and Gosfield during December for hogs delivered at stations on the C.M. and P.
M. railways.
David Coulter, 8th con. Mersea, is M. railways. David Coulter, 8th con. Mersea, is
credited with making the largest shipment at one time, receiving, as his share of the plunder, about
$\$ 1.0$ ono There are many different opinions as to the best breed of pigs for the market. Some choose the Tamworth, othens the Jersey Reds,
Mr. Coulter still clings to the old Berkshire. TBei cat le for iocal trade are very scarce, and
animals are being slaughtered that are far from animals are being slaughtered that are far, from
beine in prime condition. Many farmers have not Seing in prime condition. Many farmers have nol
the shelter necessary for voung stock, and the cold weather which has prevailed during the past three or four weeks is causing them to opart with those
for which accommodation cannot be found Farm ior which accommodioncanno foct found Farmcompelled to stand shivering in a cold wind for hours both night and day, not only require mor
(uel to keep up the animal heat, but also cannot iuel to keep up the animal heat, but also cannot lay on
housed.
A little judicious foresight would bring many e
dollar into some men's pockets.
Roads have been dollar into some men's pockets. Roads have been
excellent in our locality during the past season, excellent in our locality during the past sea.
and now we are enjoying a senson's sleighing.

West Durham Farmers' Institute We have just closed a very successful series of
ontings in connection with our Farmers' Instiute. The deputation was Mr. Gavin Barbour, of
(rosshill. whose subjects were Drait horses and
 crops a and Poultry for profit.
Mr. E.sdon gave an exhibition of some useful raising. He seems to be able to talk to any
lenpth on the subject.
Everybody was pleased with the man from Glengarry. silo, which was commented on very favorably as being labor-saving and evenly distributing the
corn in the silo. Mr. Barbour is an easy speaker,
 or the horse, and was listened to with close at-
iention. The only difficulty seemed to be the afternoons were too short. He said, "Good breeding," "Breed for a type and be persisten ."
In closing his series of atdresses he asked the
ounng men to take an interest in all that goes to Makg men to take an interest in all that goes to
our country's good; to bear their full thare of the responsibility that may come, taking a strong stand against anything that makes
ALGinst the good of mankind.

## Eastern Ontario Winter Fair

 A total of $\$ 8,000$ is offered in prizes for horses, he Eastern Ontario Livestock and Poultry Show be held in Ottawa on January 17th to 21 st large number of copies of the prize list have bright for a better show and a larger attendance than ever beforer Hseaders or owners having tock to show should send for the prize list atnce. to D. T. Elderkin, Secretary,
21
Sparks Street, Ottawa, as entries close on Jan. 8th. Ther
will be single fare on all railways and will be single fare on all railways, and Ottawa is
an attractive city to visit while Parliament is in an attractive city to visit while
session, as indeed at any season.

## Rabies Rampant

A dog which had last week bitten eight persons
in the neighborhood of Galt was killed, and an after examination proved him to have been affected witu rabies. At the request of the child's parent
the head of the animal was sent to (Ittawa for Purther examination.
The unusual number of instances reported the The unusual number of instances reported the
past year of dogs affected with rabies biting perpast year of dogs affected with rabies inding not
sons and armo stock reveal that the malady is not
reatricted to hot summer weather as was formerly restricted, wot is liable to break out at any season,
belie should eerve as a warning to owners to oh.
and she and should serve as a warning
cerve necessary precautions.

> Jr. Jas. W. Robertson, Principat of Macdonald College. Quebec, expects to leave shortly on an ex tended tour, beginning with Switzerland. While abroad he will pernd study European agricultura and economic eonditions in Europe, in order more effectualy to emhance his effirts for the advance-
ment of efturation and the ggricultural interests of
Queber

Wm. Francis, whose pertrait, reproduced from a photograph taken some years ago, appears here support of "" The Farmer's Advocate ", has been continuous He has been a subscriber has been vears. Mr. Francis has been a resident of Caradoc Township, Middlesex County. Ont., since 1839 At that time, the Longwoods Road was the only period underwent the full measure of pioneer ex-


Wm. Francis, Mt. Brydges, Ont.
periences. As a farmer, Mr. Mrancis won many prizes for stock of various kinds, but his specialty
was the breeding of Shropshire sheen in which he A zealous Anglican, he is yet liberal toward those of other denominations.
He occupied the pasit He occupied the position of treasurer of the respected by all ; and now, in his old age, havin retired to the village of Mt. Brydges, their
wishes for long life and comfort follow him.
J. W. Richardson's Holstein Sale.

The sale of Holstein-Friesian cattle on December 30th, held by J. W. Richardson, at Riverside
Farm, Caledonia, Ont., was a decided success A bout half of the herd was was a decided success bering 46 head, only five of which were mature cows: 29 were one year or under. The 46 head Kol Posch, went to Dr English Hospital Prince De sane, Hamilton, Ont., for $\$ 52 \mathrm{5}$. A. C. Hardy Brockville, secured four females for $\$ 940$ Proi Dean, O.A.C., Guelph, opened the sale with an address. Arrangements for the sale were mosi complete in every particular, being held under a Over 50 C people were present. Col Welshy farm of Brantford, the veteran auctioneer, conducted the sale, assisted by E. J. Wigg \& Son, Cayuga, and disposed of all in a little over two hours. The
s1gnal success of this sale is a fitting tribute to signal success of this sale is a fitting tribute to
the proved excellence of the Holstein cow as a profitable producer of dairy stock and products. It was observed during the course of the sale that those having the strongest official backing and of
well-known families of merit secured a brisker bidding and an ultimately higher price.
Following is the sale list:
females
Temima Wayne Aaggie We Kol, 6 years; C. Hardy, Brockville
 Toit. Davis, Woodstock
Toitilla Echo De Kol 6 th, 3 yrs.; Munro \&
Lawless, Thorold Lawless, Thorold
Hulda De Kol Princess,
ess, 9 yrs.; H. F. Pat
Ormsby Veeman De Kol, 2 yrs.; Chris. Ed-
Nancy Wayne of Riverside 3rd, 5 yrs.; A. ©
Hardy
Mechthilde
Wechthilde De Kol Daisy, 3 yrs.; W. . Osch Wayne of Riverside, 1 yr.: N. Mitch

Cassy Netherland, 9 yrs.; J. McKenzie, Wil Jemima Wayne $\qquad$
 Helen Iaple .............................................. Lady Way Centre .................................... Lady Wayne of Riverside, 1 yr.; Dr. English,
Hamilton Aagrie of Riverside 3rd, 1 yr.; D. A. Mc-
Phee, Vankleek Hill Phee, Vankleek Hill
Alfaretta Netherland, 2 yrs.; J. Ashord....................... Ryckman's Corners
Helen Pietertje 3rd's De Kol, 3 yrs.; w..........................
 ener, Red Deer, Alta. ............................
Daisy Mechthilde Posch, 2 yrs. A. C. Hardy Sylvia Mechthilde, 3 yrs.; P. Merrit, BeamsDaisy Mechthilde De Kol Pietertje, 7 yrs........ A. C. Hardy
Arggie Emily of Riverside, 1 yr.; T. W.
Hutchinson, Aurora Hutchinson, Aurora
Daisy De Kol................................ Lady Johanna Rue Lass, 1 yr.; F. Passmore, Nancy Wayne Posch, 10 mths.; A. J. D. Davis.......................
Aaggie of Riverside 4th, 10 mths. A Davis ............................................ Kenzie, Thornhill
Toitilla of Rquent..................... Clothilde Schulling, 1 yr.; Robt. Atkinson, Lady Mercena of Riverside, 2 mths.; Ezra Lady Teake of Riverside, 3 mths.; S. Best, Prince De Kol Posch, 4 yrs.; Dr. English,
Hospital for Insane, Hamilton Hospital for Insane, Hamilton
Sir.......... Riverside Wayne Lad, 11 mths.; D. A Mc Phee, Vankleek Hill
Riversido Sir Mercedes, 8 mths.; Colin C.i......... bell, Martintown Eachern, Vankleek Hill mths.; D. B. Mc Riverside sir Axie, 7 mths.; A. J. ............... Davis,
Woodstock Daisy Teake Johanna Lad, 11 mths.; Archie Phillips, Dunnville
Riverside
Robine Robinson, Markham
Riverside Posch Lad, 9 mths.; Walter Mar..................... Riverside Lad Wayne, 7 mths.; Austin Sir Paladin of Riverside, 9 mths.; Peter Sir Burke Abbekerk De Kol, 9 mths.; J. W. W. Westbrooke, Cainsville
Prince Calannity Netherland, 9 mths.; He......... McNally, Ryckman's Corners Riverside Lad Johanna, 8 mths. Riverside Sir Burke 8 .............................. Riverside Sir Burke 8 mths.; Sidney Best

## The Dangerous Fly.

evening address at the recent annual pr.ting of the Ontario Entomological Society, ained and, he new Dominion Entomologist enterccount of the comino a very large audience by an insects were common house fly. He said that these chiefly through the part they played in spreading isease. Numerous cases of typhoid were caused yy them, and the death of thousands of infants Was shown to have been brought about by their agency. The main way in which the fles carry atise frem sick patients, or filth laden with disease germs, or sores on animals of any kind, and thus getting
thousands or even millions of the germs on their thousands or even millions of the germs on their
legs, tongue and body. Then, alighting on the legs, tongue and body. Then, alighting on the
food and drink, they contaminate it with these germs, and thus introduce them into the human system. All mothers and housekeepers should
see that food, and especially milk for infants, is kept where flies cannot get access to it. More$200 \begin{aligned} & \text { over, no filth of any kind, but especialiy horse- } \\ & \text { manure, should be left exposed, because it is in }\end{aligned}$ 245 manure, should be left exposed, because it is in
130 single fy may lay about 1,000 eggs, and these may all turn into full-grown flies in about tea days
after they are laid.

The Dominion Government is seeking te recover payment of some extended promisocy otes for
seed grain distributed to needy Alberta farm-set-
tlers two eness


Interest Pald on Savings Deposits
at Our 77 Branches in Canada.
MARKETS.

## Toronto.

At West Toronto, on Monday, Jan.
receipts of live stock at the Clty and At West Toronto, on Monday, Jan.
receipts of live stock at the City an
Union Stock-yands last week were cars, comprising 1,326 cattle, 9 hogs, 2
sheep, ${ }^{\text {colves. }}$ Trate brisk for
classes. classes. Prive butchers', $\$ 5.50$ to $\$ 5.75$,
good, $\$ 5.25$ to $\$ 5.50 ;$ medium, $\$ 4.80$ trat good, $\$ 5.25$ to $\$ 5.50 ;$ medium, $\$ 4.80$ to
$\$ 5.25 ;$ common, $\$ 4.25$ to $\$ 4.70 ; 0$ ows, $\$ 3$
to $\$ 4.80 ;$ millers, $\$ 35$ to $\$ 80 ;$ calves $\$ 3$

 REVIEW OF LAST WEEK'S MAREE It being the holiday season, the re
eipts of live stock at the coipts of live stock at the City and
Union Stock-yards $\begin{gathered}\text { wore } \\ \text { light. } \\ \text { loads of exporters of good quality }\end{gathered}$ fere loads of exporters of good quality were
on sale at the Union yards.
Trade was good for every class of stock, at firn
prices; equal to those paid during the previous week.
Exporters.-Export steers sold from export bulls at $\$ 4$ to $\$ 5$ per cwt . Butchers'.-Prime picked lots sold a
$\$ 5.50$ to $\$ 5.75$; loads of good, $\$ 5$ to
$\$ 5.25$. medium, $\$ 475$. 85 . $\$ 5.25$; medium, $\$ 4.75$ to $\$ 5$; common, $\$ 1$
to $\$ 4.50$; cows, $\$ 2$ to $\$ 4.50$. stockers and Feeders,-Few, if uny, of
sither class, were on sale.
cher changed.
Milkers though light, Was greater than the and only one cow at the latter price.
Veal Culves. - Receipts light pricos Grul, at $\$ 3$ to $\$ 7.25$ per cwt.
Sheep and Lambs.-The run of sheep o be strong, as follows: Wwes, $\$ 4.25$ to
84.65; culls and rams, $\$ 3.25$ to $\$ 3.50$ Hogs.-The hug market, also, was firm, Horses. - Considering $y$ points. holiday season, there was an active thade
at the Union Horse Fxchange lagt wock

 $\$ 235$, but the bulk of sulme ranged from
$\$ 180$ to $\$ 220$; general-purpose, $\$ 130$.
 and Millifeed.


## IMPERIAL BANK OF CANADA <br> CHARTERED 1875

## Capital Authorized, $\$ 10,000,000,00$

 Reucrad $5,000,00000$$5,000,000,00$
SAVINGS DEPARTMENT

## $\$ 1.00$ opens an account. Interest paid at highest current rate from

 paid at highest current rate fromdate of deposit.
 Branches throughout the
inion of Canada.

> Chicago
 8.50 to $\$ 4.75$; calves, $\$ 3$ to $\$ 9.5$
 $\$ 8.20$ to $\$ 8.40$; chice light, $\$ 8.20$
to $\$ 8.45 ;$ packing, $\$ 8.30$ to $\$ 8.55$
pigs, $\$ 7.50$ to $\$ 8.30$; bulk of salee, $\$ 8.25$ to $\$ 8.50$.
Sheep and Lambs.-Shoop, \$4, to $\$ 0$
ambs, $\$ 6.50$ to $\$ 8.65$; yearlinge, $\$ 5.2$

Buffalo.
Hogs,-Heavy, mixed Yowkems and pigs
$\$ 8.80$ to $\$ 8.85 ;$ roughs, $\$ 8$ to $\$ 8.25$
stage, $\$ 6.75$ to $\$ 7.50$; dairiea, $\$ 8.75$ to

British Cattle Markets.
weight; refrigerator boel, to demoralized, an

## GOSSIP

hased trom John Gardhouse \& Sons. Highfield, the imported Shire stallion, Guelph last month. Mr. Patrick now
antario Winter Fair at
and year purchased from Gramam Bres., Clare Clydesdale, Sir Marcus. Mr. Patrick ad-
ertises that vertises that he is prepared bot buy
Clydesdale and Shire stalliens two to five
yearg
$\qquad$ annsouncement in our advertising col-
impursoses holding a dispersion sale
ontire herd of Shorthorn a couple of years ago, Mrembered that
a tended to be a dispension of the her
but owing to a number of the eatle, in
cluding several of the best in the herd
haning having contracted indigestion, trduced by
the feeding of a consignment of meated
corn sold, and were not in condition
their produce, and held. These since that time, principally of desirabl Cogether with a are included in the sale,
Shorthorn cows English-bred dairy herd, we are assured, is at progeny. The in
fine health and condition, mumberin young bulls head, about half a score being eviduality. Mr . Johnston's extended
experience, knowledge of pedigrees, and
$\qquad$
$\qquad$
$\qquad$


Women's Institute Convention at Guelph.
 lieved strongly in taking an interest in whatever work one had to do
"Glad service ${ }^{\text {or }}$ means everything Our work is hard or easy, according
to the spirit with which we enter
into it. If we think it is drudgery, it is into it. If we think it is drudgery, it
drudgery. When housecleanine she ha drudgery. When housecleaning, ghe hat
found it advisable to do but on
room at a time. She always poure

Mrs. Jno. Cumberland, Brampton
was not quite as strong on . sys.
tem ", as the preceding speaker. She believed in keeping all rules elastic note of her address was a warning to
farm women not to despise, but to appreciate their life, work, and all She had spent thirty years on a farm,
and for the last four had been in town. Were it possible to have the
outside work done for her, which she
cannot now do cannot now do, by reason of ill
health, she would gladly go back to the farm to-day. She drew a humor
ous comparison of the way in which the day is spent in town and coun own so many steps must be taken,


The House-mother
Cer, with soap and borax in it, then
let simmer; finally, put through the washing-machine, rinse, blue, starch,
and put on line. When cleaning win dows, bon ami is used, and, for sweeping bare floors, a new invention called "dust-bane," which takes the
place of the old-time " "tea-leaves," or shredded paper. Save steps and time, develop all sides of your
nature, and don't be in a hurry to leave the farm, was her concluding Mrs. Howell, of West Toronto, who
had spent 28 vears on a farm, 20 in Mrs. Howell, of West Toronto, who
are too high or too low. Adjustable in every schoolhouse. The childred should also be given individual drinking cups. . . The "High Schoo Age is a time of fast physical debe taken that sufficient sleep, whole some food, gymnastic and out-of-door exercises are a part of the daily pro-
gramme. gramme.
Let us see to it that we go ahead in the next generation. Prevention the medical profession to-day. Let the medical profession to-day. Let
us help in the good work. With bet-
ter physical conditiono
as well as the minds of childro as well as the minds, of children im
prove. Free physical exercise is absolutely necessary for a sound body
and mind. Keep that as a basis to wort from Keep that as a basis to

> QUESTION DRAWER.

This department of the programme, which is always followed with at tention, took up a considerable part
of the day, the answers being given by the Misses Watson, Miss Graham, Mrs. McTavish, Mrs. Graham, au Mr. Putnam. Miss Watson gave in
formation re the courses at Macdon ald Institute, and recommended farm ers' daughters who contemplate attending to apply early, as applica
tions require to be in months ahead -. A question re paraffine washing brought the answer that it is re garded as a real labor-saving device. query as to what a society should do where recipes and demomstrations were no longer required, thought that
society must be "Heaven." knew of one society that is studying Canadian trees and forest resourcen, and is persuading the local authori-
ties to take better care of the Mrs. McTavish approved of social evenings at intervals, and Miss Watson, of Ayr, dibapproved of many often arouse too strong feelinge. " How can you make members stop talking in a meeting ?" brought the
ready response, "Have the proper ready response, "Have the proper
person
for president. should go to a meeting if she can't hold her congue at the right time." DEMONSTRATION OF LABOR-SAV-
An exhibit of several labor-saving nventions-a box for raising bread a dustless vacuum cleanser, a denawith much interest. 'The vacuum dustless sweeper, costing from $\$ 15$ to
$\mathbf{2 5}$, and operated by two people, was very strongly recommended as being easily operated and a consumer
of dust. It takes the dust from wall paper upholstering and curtains as well as from carpets. In some places two or three wome
clubbed together to buy one.
cake-mixer has been found a valuable help; also a good thermometer, which secures uniform results in bread, butter and cheese making; 70
to 80 degrees is the best bread temperature. The alcohol iron has not yet arrived at a wholly satisfactory tage, but will, no nerves
The last address of the session was Toronto, who had chosen the subject. is very full of work to do. Ehe said, where are signs of things awaiting work-people to be taught, character portance than mines greater imSometimes, when we read the newsapers, there comes a sickening sense many people. of the lives of a great The work of a physician is to make people adequate for their work. Hacy so-called, lessen the adequacy of the people of this country were seven different things that the speaker wanted to dwell upon: (1) Want of Sleep. Two varieties of hysteria. Hysteria is a disease that we don't inderstand very well as yet, hut neurasthenia is better understood.

THE FARMER'S ADVOCATE.
Hope's Quiet Hour nerves-nerves that are not adequate
to the reasonable demands of life, A child at first sleeps nearly all the time; about- 8 hours' sleep per day
is about right for the adult. is about right for the adult.
Want of Food: The reajority of Want of Food: The raajority of nery
ous people do not eat enough Th Ther
mother sometimes sacrifices hersel mother sometimes sacrifices herself
for the rest. Again, she has cooked for the rest. Again, she has cooked
the meal, and has no appetite for it; when you begin to feel like that, just go out to tea. One of the most im-
portant elements in the Rest portant elements in the Rest Homes
is nourishment. Things are made so tempting that the patients want to eat. A little of this might be very
well introduced into homes in general. If you are nervous, get some
member of the family to cook for member of the family to cook ror a
While do anything to create a relish
for your food. tor your food. (3) Change : This
a very important element in every
one's life People wear out on the one's life. People wear out on the
spot that is always being rubbed. If we could send people away for per-
haps a day in every month-even to haps a day in every month-even to
walk in the fields with a friend, they
would be fresher, and more able for would be fresher, and more able for
life. (4) Fresh Air : Put all you
have eaten for a day in one scale of have eaten for a day in one scale of
a balance. I will put in the other a balance. you have breathed, and
the oxygen you ane weigh more than the food.
it will win Fresh air is the most inmportant food
we have, and you must get out of we have, and you must get out of
doors frequently to get it. People
cannot be well without fresh air (5) cannot be well without fresh air. (5)
Environment: Have your surroundenvironment: Have your surround ings as beautiful as you can, and
put your house where its windows
will cominand a heautiful view a view is helpful to the nerves. (6) doing so gives one power to be steadfast against self, the greatest power
of all. She would recommend her this. "The Tracks We Tread,", by frequently. A business man whom she had known, who hadn't take
holiday for 15 years, sat down morning and cried, instead of going
to his oflice. He takes holidays now, and takes his wife for a trip,
and finds that he has gained in every Sometimes conditions seem, ad-
verse. If we can change them, we cept them as Job did. It is pos-
sible for us, by training ourselves, to sail the ship, and to gain power that made the trouble. We can't make made the trouble. We can't make
other people do as they ought, but we can make ourselves.
change our own attitude.
We can
Have we dignified in our own minds our own
work? Have we said, "I'd rather he a mother and keep, a home than
anything else,"? Mothers should make themselves happy by remember-
ing that theirs is the greatest work hearts. there is not much danger
their falling victims to nerves.

Before closing this. one of the most
successful conventions in the history successful conventions in the history
of the Institute, it was decided that
the next annual convention be held in the next annual convention be held in
Toronto, in Noventber, about the time of the Horticultural Convention and
Fruit. Flowe and Honer Show, a de-
cision that will no doult On Thinking Glad.



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$\qquad$


## Is This Waste

 xxvi.: 7,8 .
$\begin{aligned} & \text { I am writing this two days after } \\ & \text { Christmas, having just } \\ & \text { made some at- }\end{aligned}$ Christmas, having just made some at-
tempt to tidy the house, which was of
course-littered with the delightful dis orrer of tisuenepaper, colored string, bits
pf baby ribbon and Christmas seals. There are people in the world still-peo-
ple who look down in lofty scorn on the ple who look down in lofty scorn on th
childike spirit of Dickens-who say (o think-"To what purpose is this waste?"
Think of the quantity of ribbon and tis
sue-paper, cut up to wrap about Christ-sue-paper, cut up to wrap about Chris
mas presents, and then tossed carelessl mas presents, and then tossed carelessly
into the waste-paper basket. Think of
the money spent on Christmas the money spent on Christmas labels and
seals Why, it probably amounts to
thousands of dollars in Canada alone
Is this waste? Might not this "."wastIs this waste? Might not this "wast-
ed" money be gathered into a heap and
civen to the poor ? ciples of Christ echo the lament of those But we are not concerned with the
opinion of the servants of our Lord-what
does the Master Himelf does the Master Himself say? Does He
think the money spent in dainty wrappings is wasted? He evidently did not
think the alabaster box and precious ointment were wasted, when they were
joyously sacrificed in loving lavishness by
Mary of Bethany. That apparent Mary of Bethany. That apparent
"waste" has been an inspiration to lov-
ing hearts ever since. Let us carefully
examine the question of
$\qquad$ the table, and unfastened one parcel after
another, we found that the youngest
member of the party had taken special caro to have each of her taiken special daintily
done up. She had bought a fresh supply of paper, ribbon and seals, because the firs
lot had been used up for gitts outside th
home. Do you think she considered tha ple ? Not she! In all the rush of particular and special delight in all th
sacramental outward tokens of the in And II, tor one, did not consider the time
and money were wasted. The fitt would have been as practically usefulpaper, but they would not have been the
outward signs of overfowing, considerate
love-love that scorned to consider ex love-love that scorned to consider ex-
pense or trouble. And the thought came to me to have a chat with you about
the value of keeping our perfume fittingly shrined in an alabaster box when we
ofler it to our Lord. Think of our gifts find it hard to accept a much-needed Christmas basket. They feel that the
gift is "cold as charity"-real charity is never cold. But if the basket be daintily
packed, with mysterious packages slipped
in here and and packed, with mysterious packages slipped
in here and there, properly boxed of
wrapped, and labelled wrapped, and labelled with cheery Christ
mas wishes-how delightul the task uas wistes-how delightrul the task of
unpacking it will be. Five cents' worth
of paper and ribbon will give far more same five cents spent on sugar or meatMy Thine.
My soul is is manifold.had time to think, I heard a great
leg. I would have fallen to the ground
if the crotch of the tree had not held
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ in" and also dressed in her very best
clothing-"clothing of wrougt gold . raiment of needle eorork." -Ps. xlv.: 13,14 .
The wise metn brought gitts of frankinThe wise men brought gifts of Prankin-
cense and myrrh to present to the King,
and they did not consider that such cense and myrrh to present to the King,
and they did not consider that such
offerings were wasted on the Child in His and they dere wasted on the Child in His
offerings wis
lowly home. Gold was, evidently, uselowly home. Gold was, evidently, use-
ful-some would have said of the other tul-some would have said of the other
gifts, with their symbolic meaning : "To
what purpose is thion what purpose is this waste?" Were they
wasted? wasted?
There may even be some followers
\# Mr. Gradgrind," "Wr. Gradgrind," who consider it
"Wriste to have candies and nuts at
Christmas time. Just fancy a Christmas Christmas time. Just fancy a Christmas
with only necessaries and no luxuries ! with only necessaries and no luxuries
It might be sensible and practical, but it certainly would be a very poor imitation
of a real, old-fashioned, hearty Christmas. It Would be all outside-body
without spirit. head without heart without spirit, head without heart.
God might-as has been quaintly said-
have made us in such fashion that our at regular hours, been shovelled into us
a coal is dumped into
 Think how the rich juice of the grape is
contained in a beautiful case. Think of
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ increasing my pain a great doal. But
mother-love is stronger than everything
Christianity a failure? Is the Bible a book of myths? Is it a book of specucism going to bring more light out the clouds of the letter of the written
word? Is Prof. Flliot ment of the religion of the futurunce hope that will satisfy? Oh, never!
The religion of the acterized by more wisdom in hearing Lord's sayings, and in doing them.
is in the doing we realize the life of to God and man, and have a better While the farmer plows and sows, and
devotes his time and talents to a useful life, as all relligion has relation to lite
he becomes wiser and humbler in the presence of his Lord. His mind is is
communication with his Helper and Sus his house on a rock. The foolish man's
house is built without any effort on his part; he hears the sayings, but does not
do them, while the wise are continually
doing and working. In loving kindness came to mankind as the Spirit and Lite ling changes, the questionings, the start-
ings, and the disturbances above
$\qquad$
$\qquad$

$$
\begin{aligned}
& \text { sciousness. } \\
& \text { show }
\end{aligned}
$$

$\qquad$
weak and stif that I could hardy move.
I though of my poor little babies at
home. knowing that hy the the the

$\qquad$

$\qquad$
hangry that I roould not keep trom eatinghitele things. I then turied to crawl
down trom the tree, but in so doing I
$\qquad$
As the sun on a shrine of gold.
When I rest my heart the peach and plum and apple, and
countless fruits. How very different the
world would be if these were all a dull world would be if these were all a dull
black, or brown, or gray.
How tender and considerate God is in
His numaberless ways gitts in dainty ways to give His chil-
dren pleasure. The world is full of de-
light ful things which
$\qquad$
$\qquad$


$\qquad$

The Ppize Compositions nuts. I joyfully filled my mouches, and
was hurrying home with them to my
three sweet Lhree sweet little children, when to met a
huge creature called huge creature called a man. He carried
a curious stick, called a gun, and was
followed tioned, on account of their passing
away. He saith, "Shall find fand indicating the absence of it, and his reAnd yet, many who are leaders of men, Lord. But the invitation is now going
throughout all the world, to come to the
Lord and learn of the many thine is saying unto us, out of the clouds of
tho letter of the written word, as in
$\qquad$
$\qquad$
$\qquad$ waters of Lite
that we enjoy giving to Him as plain It ha
been suggested that the organist insory is being taken up, in order
soothe the sufferings of the congregation
Anyone who does not offor

$\qquad$
$\qquad$ present joyously to Him, as an outwan visible sign of our love. When the
Church ilits up her gifts to her Royal
Bridegroom, neither
$\qquad$
$\qquad$

Picture Competition.<br>(SENIOR BOYS.) What a Gun Did.Father who art in Heaven. He is re

vealed to us plainly, Let him that
heareth come. and him that is athirst
come and drink of the waters of Life

## The Beaver Circle.

The prize compositions
## 

$\qquad$
$\qquad$



John Kendrlck Bang
thate tronang witho, whiter made
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$






 d 1
$\qquad$




HAT TRIMMINGS MADE NEW, OLD COATS RENEWED, DRESSES CHANGED IN COLOR AND STYLE.
That's what Diamond Dyes will do for you
There's a dye for every purpose-a dye for every colo There are a thousand uses for Dlamond Dyes, and each one
save you money. You can use Dla
You can use Dlamond Dyes and be sure of the results. You
use them with safety can use them with safety on the most expensive piece of goods, and there is no danger of the goods becoming spotted or streaked
or harmed in any way.
Faded hosiery, silk gloves, veils and feathers can be made
like new with their use. Portieres,
Portieres, couch covers, table covers, ribbons, sashes and And for dyeing dress goods, faded garments, skirts, waists and suits, Diamond Dyes are invaluable, both in economy and
usefulness. There is no other dye made that will do the work of Diamond
Dyes. There is no other dye that you can Dyes.

## Dlamond Dyes

s are " the standard of the
$\qquad$
Important Facts About Goods to be Dyed Diamond Dyes are the Standard of the world, and always give perfect results. You must be
sure that ou get the ene
you intend to dye.


 Diamond Dyes for Wool cannot be used for coloring Cotton. Dises for Cotton.
 Which take up the dye slowly.
"Mixed Goods." also known as "Union Goods," are made chiefly of either Cegtable fibres. other "uxed Goods." also known as "Union Goods." are made chiefty of either Cotoro, Linen, or or
these goods. Diamond Dye Annual - Free $\begin{gathered}\text { Send us your name and address (be sure to } \\ \text { he sells Diamond Dyes) and we will sion your dealer's name and tell us whether }\end{gathered}$

THE WELLS \& RICHARDSON CO., LIMITED.
200 Mountain Street, Montreal, P. Q.
during the summer How interesting and educative was your description of
that Gowgama trip ! By the way, my husband and I took in
the London Fair in September-it was my steadlast yesolve to call on you in your den, but alas! the afternoon at my
disposal glided away in that interminable weakness of woman-shopping Wishing yow and all the Nookers
happy and prosperous happy and prosperous New Year, I sha
leave my eard. Congratulathoms, Forget-menot, on your
addition to the list of Ingle Nook babies. Here's wiohtng it (him
long life, and prosperity.

Canning of Meats in the Farm Canning of diferent kinds of meat is done much it the same way. Chickens from the bowes, salt and pepper to suit trom the bowes, salt and pepper to suit only a small amount of liquid remaining When propenly cooked. In preparing it
for the cans, leave nothing but the bones pressing the meat into the cans, adding some of the Hiquid as they are being
filled, and emough to cover chicken when filled. Aftey it becomes cold, clean of
the cans thoroughly and put the small tin in place. It is now ready to be
soldered, and st is important that it be soldered, and done, fow if not air-tight, it will spoil. We take it to the tinsmith, who
makes only anall charge. After being soldered, ethe eorn-size can is boiled for and it is very important to keep them andiling the llangth of time mentioned.
One of the Imstitute delegates at Guelph (I did not learn her name), said a good throw can into hot water, and, if it bubbled, would have to be resoldered
before boillng. Beef, pork, veal, headbefore boiling. Beef, pork, veal, head-
cheese, in fact, any meat, will be a success if these tastructions are closely fol-
lowed. In macking beef or pork in tomato-size ean, put in as large pieces as
possible, as te turns out nicer for a stew. When a can of meat is to be used cold
both ends of the ean are cut very closely to the edge, and slowly pushed through
slicing it as themes from the can. Mrs. Farley was one of the speakers a
the Women's Institute Convention re cently held at uelph

The "Farmer's Advocate" Fashions.


THE FARMER'S ADVOCATE.


Price of above patterns, 10 cents for
each number. Kindly state number and each numer. Kindly state number and
age when ordering. Address. Fashion
Dept., 'TThe Farmer's Advocate." LonCurrent Events.

As a result of intrigue and the op the Turkish Cabinet has resigned.

Over 90,000 Americans emigrated o Canada during the past year, mos Flans are out for the re-erection rence, at an estimated cost of $\$ 10$ 000,000.

England to. Perks is coming froin to promote the Georgian Bay Canal project.

The biggest British mall that ever on December 26th, by special train of on December
twelve cars.

John Ross Robertson, of the Totocking of the Sick Children's Hospi tal at Christmas

Rev. Dr. John Currie, an eminent rian Theological College, Nova

Over $\$ 1,000,000$ * ${ }^{*}$ damage was dons by a recent storm on the New Eng-
land seacoast, and over 30 people About 25 persons * coming from ths Northwest to enjoy Christmas in On-
tario, were injured in a derailing ac-
cident on the C P. R at Chapleau. The centenary of the birth of Wil
liam Ewart Gladstone was fittingly clebrated in England and many other lands throughout the world
on December 29 th. The Christmas and New Year
holiday traflic on the Canadian rail holday tratlic on the Canadian rall-
ways was the heaviest on record-
one evidence of the buoyancy induce one evidence of the buoyancy induced
hy prosperity.

The Jaçues Cartier and Frontenac
Gas
Co $\$ 4,000$ at Christmas among 50 em ployes, according to position and
length of service.

King Leopold II., of the Belgians,
who died in December, has been suc eeded on the throne by Prinoe Albert son of the late King 's

The Canadian Government has bo
gun its navy by buying from Grea gun its navy by buying $\begin{aligned} & \text { from Great } \\ & \text { Britain the cruiser }\end{aligned}$ Rainow," 3,400 tons, built at a cost of $\$ 920$,
ono, which will be used as a training ship for recruits.
 FREDERICK BABSON:
 Edison Phonograph on a

## FREE LOAN

Yes, an absolutely free loan, the world's greatest phonograph, our new No. 10 model, 1910 outfit, now offered on a free loan. Edison has been worline for several vears-the ollmax of this inventoris skili. Tit eolinaed
 machine. You must get one of theere phonographs on a free e ion to learn what Mr. Edison
has acoomplished in perteoting the greatest, the most wonderrul talking mechite ever made.




 "I want to see a Phonograph in every

Home"
The phonograph is his pet and hobby, and it is true that there should be no home in the country without
this grand and magnificent entertainer. At any rate you ought to seize this opportunity to have a phonograph free for awhile and hear all the music at least
a few times before shipping back the phonograph. And remember, please, you can't imagine what a talking machine is like, what
the latest improvements mean, until you have heard our outfit No. 10 . It is so far superior to the ordinery talking machine you may have heard in your town
 the Free Catalog!




Sign the Coupon:

## Edison Phonograph <br> 

Do you know how much you are losing by not owning an Edison Phonograph

- This instrument was made for you by Mr. Edison. It is intended to bring music into your home. It will help you entertain your guests. It will amuse you during your leisure hours. It will help you to bring up your family to love music.

This is what Mr. Edison meant when he said that he would like to see a Phonograph in every home.

How can you let any consideration of money stand in the way of your owning one of these great entertainers? The Phonograph will give you so much more in return for the money than you can get by spending it in any other way.
Do not take our word for it. Go to a dealer today and hear the Edison Phonograph play the Amberol Records, and you will know why we are so positive that you cannot afford to do without it.
 dison Amberol Records
 catalogs from your dealer or from ns.

## More bread and Better bread

 -And the Reason for it
(Le Chien D'Or.
A Canadlan Historical Romance.
Copyright, 1897, by L. C. Page \& Co. (Inc.)

A STRONG FLOUR can only Manitoba hard wheat is acknow. Manitoba hard wheat is acknowledged the strongest in the worldPurity Flour lis lind used for Purity Flour.

But that's not all. Every grain of this wheat contains both highIn e from the low-grade the Western Camada Flour Mills put the hard wheat through a process so exacting that not a single low-grade part in with the high-grance of getting in with the high-grade.

Of course this special process is means a lot to Purity flour usersthat's why we use it,
It means that Purity Flour made entirely of the highest-grade flour parts of the strongest wheat
in the world.

It means a high-class, strong flour and therefore yields "more bread and therefore yi

Parity may cost a little more than some flours, but results prove ical after all.


2urity
rinuma
The Annual Sale of Breeding Stock
CONDUCTED BY THE GUELPH FAT-STOCK CLUB,
Winter Fair Building, Guelph, Wednesday, March 2, 1910
W. R. ELLIOTT, President.

CNo you want this catalogue?

Here is a specimen page reproduced from our Midwinter Sale Catalogue of Whitewear and other seasonable goods.
There are forty-seven other pages in this Catalogue that are just as interesting. Men, women and children all have been remembered in this price-reducing carnival
This Catalogue is now going out to all the addresses on our mailing list. If your address is not there, just write it on a postcard addressed to the Company, and a copy will be sent to you.

## misersIMPSONoway <br> TORONTO



T
EN THOUSAND PEOPLE are making poultry pay $\square$ by The PEERLESS Way You Can Do as Well
as any of them
Weill Help You



G.
 save her. De Pean rode fast up the Rue St. Louis, not unobservant of the dark
looks of the Honnetes Gens or the tamiliar nods and knowing smiles of the partisans of the Priponne whom ${ }^{2} \mathrm{Cemer}$ on the
Before the door of the mansion of valet of the Intendant holding his master's horse, and at the broad window, half hid behind the thick curgaged in badinage and mutual de ceiving, as De Pean well knew.
Her silvery laugh struck his oar as
he drew up.
He cursed them toth; Dut fear of the Intendant, and a due
regard to his own interests, two teel ings never absent trom the Chevalier de Fean, caused him to ride on, not
stoppring ons he had
nitended He would ride to the end of the Grande Allee and roturn. By that time the Intendant would be gone,
and she would be at liberty to recelve his invilation for a ride to mean when they would visit the cathetrai and the market.
of Angelique to enough of the ways the hand of the Intendant. She had slighted and vilipended himself, even
while accepting his gifts and gallan while accepting his gifts and gallan of her character, he had faith in the ultimate power of money, which rep resented to her, as to most women carriages, and, above all, the envy and jealousy of her own sex. These things De Pean had wagered
on the head of Angelique agrinst the on the head of Angelique against the
wild love of Le Gardeur, the empty admiration of Bigot, and the natteries of the troop of idle gentleme who dawdled around her. He felt confident that in the end
victory would be his, and the Angelique would one day lay her hand in his as the wife of Hugues de Pean
De Pean knew that in her beart she De Pean knew that in her heart she
had no love for the Intendant, and the Intendant no respect for her Moreover, Bigot would not venture to marry the Queen of Sheba whhout
the sanction of his jealous matrenee


Nitrate of Soda
NITRATE AGENCIES CO.
California $\quad 321$ Stimson Block. Los Angeles

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1103 Temple B B
ddros omico Neareat Yoi

dred mistresses it he he liked and be
congratulated on hhis bones fortunes,
 of losing the favor of La Pompadour
who had chosen a future wife for him
 futtered round her, basking like but
terfies in the sunshine or her semi regal splendor. the Filace anong the partuners ot the
Crand Compmany, who had met to
 down to their debauch, however, they
had discussed, with more regard to
to their poussiar interests han to the
principles of the teealogue the condi principles of the Jealogue, the eond.
tion and prospecest or the tompany. The prospect was so little encour-
aging to the associates that they aging to the associates
were glad when the Intendant bade was not lost that was in danger.
what - Philibert would yet undergo the fate
of Acteon, and be torn in pieces by of Actæon, and De torn in pieces by
his own dog." Bigot, as he said
this. ylanced from Le Gardeur to De Pean, with a look and a smile which caused Cadet, who knew it
meaning, to shrug his shouldens an
inquire of De Pean privately, "Is the trap set?" "It is set :". replied De Pean, in a
whisper. "It will spring to-morro and catch our game, I hope."
". You must have a crowd and
row, mind ! This thing, to be safe
must be done openly," whispered det, in reply,
" We will have both a crowd and a row, never fear ! The new preach
er of the Jesuits, who is fresh from
Italy, and knows nothing about ou lot, is to inveigh in the marke
against the Jansenists and the Hon netes Gens. If that does not ma
a crowd and a row, I do not kno "You are a deep devil, De Pean
So deep that 1 doubt you will chean
 Never fear, Cadet! To-morrow
night shall see the Palace Gay with
illumination, and the Golden darkness and despair."
(To be continued.)

## POTASH mens PROFIT

Every farmer, market gardener and fruit grower, who has not alread
done so, should test the truth of this statement by using POTASH this year NO BETTER RESOLUTION CAN BE MADE FOR THE NEW YEAR Potash is an absolutely Indispensable Ingredient of a Complete Fertilizer and may be obtained from a
highly-concentrated forms of
Sulphate of Potash and Muriate of Potash we shall advise you where you can get supplies. For the benefit of dealer and oheren cequiryso such quantites at CoNsIDERABLY REDUCED PRICES.

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## PSORIASIS


 Pimples,
 and

## Superfluous Hair,


Hiscott Dermatological Institute
QUESTIONS AND ANSWERS 1st.-Questions anked by bonacidie, sul-
scribers to "The Farmery Advocte" at
 and

$\qquad$
Miscellaneous
Farmers unrepresented




Twice as Strong as our wonderfully seccure stide lock. It consists of three thick$\begin{array}{llll}\text { nesses } & \text { of sheet steel-see } \\ \text { ARROW } & \text { B. }\end{array}$ The top of the shingle als
Where the greatest strain Yet the top lock or most other
metal shingles isnit as stronk as the side lock of ours. Ahingrew above hows how the

Nailing Is Protected.
ARRow D shows the methor
 top lock of the rikht hand
shingle overlays the one on tho
left The nail goes through both
shinglese
All mails on the fange of
top-lock are corered by shinglese on the row above. Thus posure to the weather They
cannot rust or work lose They care there tore wherk loose. They

So strong are our locks that
thero has not yet been a gale
pow
cov
Loc
powerful enough to rip off a roof
covered with PRESTON Lock Shingles. The terrific wind on April 8, 1909 ripped off scores of wooden, metal and prepared
roofings. Yet not one of these metal roofs was a PRESTO Gale-proof Shingles
 are the Sare- Looks that even tit
some of the shingles were not some of the shingles were not
nailed the roof would be solid nailed the roof would be solid
and wind-tight. It is utterly impossible to get PRESTON Shingles off the roof in any other way than by reunlocking each shingle separateShingles on your roof they are

## Snow-proof, too

 No snow can be driven upPRESTON side locks and on to PRESTON side locks and on to our top lock closes right down over the end of the side lock.
No rain or snow can be forced past this fold of sheet steel, unless you drill a hole through is Just how easy it is for snow Just how easy it is for snow
or rain to be driven up the side
foints of other shingles you can joints of other shingles you can
readily see for yourself. Simply fasten the sides of two
ordinary shingles together. Then ordinary shingles together. Then
hold the shingles up and look
that through the joint. You can see
daylight through it. That means daylight through. it. That means
there is an unobstructed passage there is an unobstructed passage
through which rain or snow can
be driven by the force of the wind. the same test with PRESTON Shingles. You can not see daylight through our side
locks. That means the ends of nur side locks are closed secure-

## Generous Folds

## Thic tolu of prestov sum



Even the shrinking of the woo neens ortine ceans srain dua hot sufficient to make any difference to our sate-1 ocks, whereas Sther shingles will pull apa

## Patented Construction

 You understand Preston sara-Lock shinglee rere so difierent in constructiontrom other meal shingles. They will always be dirferent and betof the interiocking shmingles This the interiocking shn. Skes. Th
patents wo mold prevent othert rom making as good a aningle
British Government
Specifications
It is a well known fact that the British Government is the most particular buyer in the could not pass their Acid Test for galvanizing. This test is more severe on the galvanizing than twenty $\quad$ years of Canadian
weather. Yet PRESTON shingles will easily pass this test.
PRESTON Shingles are mad and galvanized according to Brit

Twice the Service
Shinglee galvanized according
for these spectitations are good
for wice the service of sthingles
Metal Shingle and Siding Co. Hranch offico and Factory Fontory, Pr



The atention of tarmers and stookmen.
is directet
is. is directed to the adverisement of the
Wareren nutomatic teed rack and manger, manutactured by the Pige wire Fence
Co., ot Wallerville, Co., of Walkeriile, ont., which, it is
claimed, will pay tor its cost in a ter months by avoiding waste, and heeping
teed clean. It io made of steel and
ond strong wire, and is, therefore durable See the adverisement and write tor
deaseripive
The announcemenent mululished in these


 day, January 18th, and will be con-
tinued on Wednesday at 9.30 a inued on Wednesday at $9.30 \mathrm{a} . \mathrm{m}$. The judging of horses will commence at 2 p Tuesday̆, at a public meeting, the show will be oflicially opened, when addresses
will be delivered by Hon. J. S. Duf Nill be delivered by Hon. J. S. Duff.
Minister of Agriculture, and the Hon. Mr Justice Riddle. Addresses on various subjects of interest to farmers and stock.
breeders will be delivered by exter breeders will be delivered by experts
during Wednesday and Thursday, on the during Wednesday and Thursday, on the
following topics: Soilling Crops, Silos and Silage, Cow Records, Seed Corn Purchasing Seeds, Fattening and Market-
ing Poultry and Eggs, Feeding Breeding ing Poultry and Eggs, Feeding Breeding
Sheep and Market Lambs, Pork ProSucep and Market Lamos, Management of Swine, Market
ductisses of Horses, Underdraining, Feed Cluction, Management of Horses, Underdraining, Feed
Clas Beef Cattle etc. columns a few weeks ago, taken from a
Chicago paper, that Richard Gibson, of ing of the International Exhibition Asso
int., was at the annur ciation, held during show week, elected

Gibson having been chosen as frst vice-
president, a decidedly complimentary ac-

QUESTIONS AND ANSWERS Miscellaneous

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WHEAT YIELD OF SASKATCHE
What is the estimated wheat yield fol
$\qquad$
$\qquad$
FEED RATIONS FOR COWS
$\qquad$
to get for milking cows and fattening
two-year-olds? I have corn unbusked

If you have not been using Windsor
Salt for butter making, get a sack and try it. You will then see why the prize butte makers use it.
There is hardly a farmer's daughter in Canada who does not know Windsor Salt.
It has been the universal standby
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1 to 5 years of age, are now in our stables. Up to over a
ton in weight. Big, stylish, choke-full of flashy quality,
and faultest ton in weight. Big, stylish, choke-falles. of flap to over a
and faultity,
best lotess movers. Preer imported to Cainners among themula. The
termsto All are for

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## ure Coupon

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Troubled With Backache For Years. Now ComBy The Use of cure MI TIDNTY PIT DOAN'S KIDNEY PIITIS $\xrightarrow[\text { Mrs. W. C. Doerr, } 13 \text { Brighton St, }]{\text { Mondon, }}$ pleasure that I thank you for the good your Doan's Kidney Pills have done me Have been troubled with backache fo brought me a box of your Kidney Pills. I began to take them and took four boxes and am glad to say that 1 am cured enfeel as good as I used to before taken sick I am positive Doan's Kidney Pills are
all you claim them to be, and I ad vise all you claim them to be, and I adnis
all kidney sufferers to give them a fair Let Dosn's kidney Pills do for you others. They cure all forms of tidne troulle and they cure to stay cured Price, 50 cents per box or 3 boxes for
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LFARA TO MOUNT BMRDS,-Taxi-
dermy is a very entrancing art for pri- aturalists who are versed in its mys-
eries can mount their own trophies and
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There are many anecdotes of actors and
playwrights in the lately-published recol-
laywrights in Squire and Lady Ban
ections of Sir
croft. Some of these. of course, origi
or
nate with the always amusing $H$.
Ryron. To a Provincial landlady he
$\qquad$
H. SMITH, Scotch Shorthorns

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ONTARIO. Extra choice young bulls and heifers for sale
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Mr. A. J. Hickman, Court Lodge, Egerton, Kent, England, Exporis Pedigree Live Stock of Every
Description to all Parts of the W.rid.
 THE "MAPLES" HEREFORDS
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For Salo: 25 bulls from 6 to : $8:$

 W. H. HUNTE Oranseville P.O. and sta. Homestead Aberdeen-Angus
 shourd write. or come and see them.
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ABERDEEN - ANGUS Will sell both sexes; fair prices. Come and see
them befure buying. Drumbo station. WALTER HALL. Washingion, Ont. Balmedie Pouled Angus and Oxtord Down

 Aberdeen-Angus Cattle $\begin{gathered}\text { S ock all ages, } \\ \text { and } \\ \text { both }\end{gathered}$ good strains, at reasunable prices. Apply to
ANDREW DIN SMOE CGrape
Clorksburs, Ont. 1854-Maplo Louge Jtock rarm-1909 Sgorthorn bulls and heifers of extra
quatity and breoding, and from best milk-
ina strains.
A. W. SMITH. Mapie Lodice P.O., Ontarle HIGH-CLASS SHORTHORNS

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| GEO GIER RAAN VALLEY | JUHN GARDHOUSE \& SONS


 Geo. D. Hetcher, Biltersham P.O, Ont., horn bulls 10,13 and 18 months old with both
breding and quat ty for herd.headers. Prices easy.
Stokik bull Benahie ion

 Wiizalieth's muther did not teach her
little duaphter much that she should have
learned about religiont sor dil
$\qquad$
$\qquad$



## LAST WEEK WE SAID ON THIS PAGE THAT ON

 2nd and 3rd February, 1910ONE HUNDRED AND FORTY

## SCOTCH SHOPTHORNS

SELECTED FROM THE HERDS OF
HON. W. C. EDWARDS, ROCKLAND, ONT


W. G. PETTIT, FREEMAN, ON

JOHN MILLER, BROUGGAM, ONT.,
MILLER BROS., BROUGHAM, ONT
MILLER BROS, BROUGHAM, ONT.,
JOHN MILLER. JR., ASHBURN, ON
and ROBERT MiLLEE. STOUFFVILLE, ONT.
and that no collection of Shorthorns has ever been sold in Canada that
approached this lot in
QUALITY, BREEDING AND REAL VALUE.
We now add that the number is greater; each animal is in perfect con-
dition in every way ; no apologites or explanations will be necessary;
there will be bull hat can win again; there are others that have never been shows, and will be wanted by those that are after the honors of 1910 .
Unprejudiced men will use this space and more to tell you the rest eep the dater open get your name in line for illust

Robert Miller, Stouffville, Ont. MANAGER OF SALE.



30 HEIFERS AND 29 BULLS
present offrring
 H. CARGILL \& SON, CARGILL, ONT. SALEM SHORTHORNS! give and wat heve
 SHORTHORNS

$\qquad$ John Douglas, Manager. PI IER WHIIIE, Pembrake. FOR SALE HE SIIORITIORNS AND BERKSHIIRES

Meadow Lawn Shorthorns


The Best Roofing Manufactured


[^0] ta... P. .



## QUESTIONS AND ANSWERS

 Miscellaneous.WEIGHING ANIMALS-WORKING 1. If I or ainy man takos a load ot
hogs to market, or a beast of any kind, can the weigh-master prevent the kind,
going in to see them weighed ? 2. If I engage a man for a number of
months, can he quit work at 6 o'clock and call his day's work in, and claim
every second Sunday? Ontario. 3. He is entitled to the statutory holiYear's Day, and so forth, but subject to days. There is no arbitrary rule as to
hours-they must be reasonable trom peir

VALUE OF BUTTERMIIK
What would buttermilk without rinse
water in, and fresh from churn, be worth per hundred pounds at factory for foed for ing hogs, or ite price per gallon; or
would there be any likelibood of selling
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$\qquad$ ar. remunerative prage purposes at a
For feeding
 For it might be made worth
nore. Fore on a farm in regular
vantitios not in excess of reasonet ess of reasonable
th in these days

MISCELLANEOUS
hat is the right way to put rope
is the best blood preparation
draft coltg, with a viepation to
$\qquad$
Htow close bred are the Clydesdales
$\qquad$
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## GRTVINFEED




ELECTRICBEANS
ARE A BRACING BLOOD \& NERVE TONC.

They are unequalled for Billousness, Sick Head ache, Constipation, Heart Palpitation, Indiges
tion. Ansmia. Write for sample and booklet of testimonlalas. 50 c. a box at all deaiers, or Thb
Flifctrio bran Chemical Co. Limited. Ottaws
Scote, Shorthorns
 champing.
breeding.
bred the Guelp wav sired by a bull of , ur
ve toung bulls for ane now.
ite forr breeding and prices. John Milter, Brougham P. O, Ontario.


Have two excellent bu ls left yet, both about ten
months old and go d eount for an herou also
number ot chaice heifers, oll ages. For particulars
wite to:
write to: Wm. Smith, Columbus. Ont.
SHORTHOKNa,
Berkshires. Cotswolds
Berkshires, Cotswolds.
In Shartorns. 53 he d t, select
rom : 20 calves (13 bulls and 7

Chas. E. Bonay , stle. C.ampbellford, Ont.
Maple Grange Shorthorns


Clover Dell Shorthorns


High-cla s scotch Shor thorns We are nuw offering chuice young bulls of service-
able age. and a number one and two sear old
heifers. Mo st fashinably bred and heh class
shor


SHORTHORNS For sale $\begin{aligned} & \text { fam offerig } \mathrm{g} \text { for } \\ & \text { sale a number of females of }\end{aligned}$
 hugh thonson. box 566. St marv's, ont. Spring Valley Shorthorns. Hend headed by Clipper Chief (imp.) $=61220=$
(9663) If you want to get an imported bull. or nd Write, or come one to head your herd, be the sure
nem. Leng-ditstance
lepbone. Shorthorns and Leicesters ${ }^{-A}$ number of young bulls and heiters trom grand milkiocely dame dams


THE FARMER'S ADVOCATE

QUESTIONS AND ANSWERS. Miscellaneous.

PROBABLY ECZEMA Have a Holstein bull, 10 months old.
About a month ago the hair came of his
head and neck until it is now more than
half off. head and neck until it is now more than
hatif off. The animal appears to be doing
well; gets skim nilk, roots and hay. Ans.-This appears to be eczema. WasiUS.
We parts thoroughly with warm soap
he

More Strength


The World To-day Calls for Men of Strangth, Men of Action.

 No mat 1400 nim Yown that he can't be built up. You
can recover your old-time vim and ourage.
There's strength in Electricity Yor
such as you. It is a builder, an inThere's strength in Electricity for
such as you. It is a builder, an in-
vigorator, a strength-giver. Its glowng energy fills your nerves and veins orked organs respond immediately ith new life and energy. It flle
ou with ambition, happiness. ambition, animation, and
to be, the way you ought to be, and
the way you can be. Make your
body into a storage battery by filling It every night with the gentle cur-
rents from the DR. SANDEN ELFCTRIC HERCULEX, and the results
vill surprise you. The world will look rosy to you, and you'll have the strength and courage to tackle any task

FREE UNTIL CURED

$$
\begin{aligned}
& \text { Call or write to me and } \mathrm{I} \text { will at once arrange to let you have the } \\
& \text { Belt on trial, not to be paid for until cured. No deposit or advance }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Belt on trial, not to be paid for until cured. No deposit or advance } \\
& \text { payment. Send it it it doesn't do the work. Liberal discount }
\end{aligned}
$$

$$
\begin{aligned}
& \text { for cash, if you prefer to deal that way. } \\
& \text { EElectric Suspensory or other attachment free, and guaranteed for } \\
& \text { ane vear }
\end{aligned}
$$

$$
\begin{aligned}
& \text { It is a quick and lasting cure for Weakness of any Organ of the } \\
& \text { Iody, for Nervousness, Rheumatism, Pains in the Back and Hips, Lum- }
\end{aligned}
$$

SEND FOR MY FREE BOOK

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\begin{aligned}
& \text { If you cannot call at my office personally, write for my book. It is } \\
& \text { full of things every man ought to know, and gives full particulars. }
\end{aligned}
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DR. A. F. SANDEN, ronse treet Toronto, Ont. Entrance: 6 Temperance Street. OFFICE HOURS : 9 to 6, SATURDAYS UNTIL 9 P.M.
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P. O. Box 378, Guelph. Ont. Breads SCOTCH SHORTHORNS Extlusively.


## MOFFAT, ONTARIO.

Por Sale: Seven bulls, some of them show buble
most ot them from imported siris and dama. Write
Moffat Station, II miles East of CIty

275 BURLINGTON SHORTHORNS 275




SHORTHORN BULLS
of serviceable age. Anong them are high-clays herd-headers. We . G. PETTIT \& SONS, FREEMAN, ONT


Imp. Scotch Shorthorns ing for Short,
Imp. Scotch Shorthorns ing for shookcan supply Shorthorng of all a a ese with richen
contch bredding and high-clase individuality.

Maple Leaf Shires, Shorthorns. Hampshire Hogs
 horthorn Cattle|BRAMPTON JERSEYS
vearling rams. Prices very reasonable for quick sale.
J. T. CIBSON, DENFIELD, ONT.

32 THE FARMER'S ADVCCATE




INSTANT LOUSE KILER KILLS LCE


THE GOLDEN LAD BULL,
 Tt PORIER, 360 st. Glalr Ave. Toronto. CHOICE BULL YO YRAD
 D. DUNCAN, DON, ONT. WOODBINE STOCK FTATION. FARM


## Imperial Holstery, art, ont


 Holsteins at Rlagedale Farm-Eight bull

 Glenwood Stock Farm
Holsteins all sold out Histeins and
Yorkshires


| The Maples Holstein Herd! <br> RECORD-OF-MERIT COWs. <br> Headed by Lord Wayne Mechthilde Calamity Nothing for sale at present but choice bull calves from Record-of-Merit dams. Walburm Plvers, Fald <br> Wist Ma <br> Holsteins - ${ }_{\text {bred }}^{\text {Maple }}$ Grove offers a few richly Sir Abbekerk De Kod koung cons, and Mercenaly yin calf to also young stock sired by above bulls. For descrip- $\qquad$ H. BOLLERT. Cassel, Ont. |  |
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## Molstitins


 an near Ingerad H.E GEORGE. CRAMPTOV. ONT ARIO. CENTRE A AND HILLIEW
 Fairview Herd
 E. H. Dollar, Heuvelton, N. Y.


##  AGAIN ! E. \& F. MALLORY, Frankford, Ont



Maple Hill Holstein- Friesians



QUESTIONS AND ANSWERS Miscellaneous

RATION FOR STEERS Having no hay this year, have to feod
beef cattle cut straw and silage, mixed,
and have to be sparing of the seilege and have to be sparing of the silage; in,
tend feeding twice a day. How much
chop should I feed per diy chop should I feed per day at two much
to steers weighing now about 800
900 founds each ?
 bushels barley, and one bushel peas, t , by
measure. $\quad$ Have had the steers in tor
twor two weeks, but amn only leeding very
light on chop yet. Would like to have
steers ready for at atest.
J . McL. eating about 30 pounds of silage and 8
pounds oat straw, we would recommend
commencing with a pound of bran per
day, edded day, added to whatever meal they mary
be getting. Then, in about two weeks
time, prepare a mixture of 8 are chop, by weight, to $2 \ddagger$ parts oill cake,
and substitute this for whatever, the steers may be then receiving, chop
the bran extra to the end the mix. creasing oil cake to be fed in in gradutuanly on in-
the feeding until at the close of about ten pounds of the mixture
besides the pound of bran. The bran
sould te mixed should be mixed with the rest of the
concentrates in feeding; we have men-
tioned it separately to make it clear that we would feed each steer about a
pound per day, from beginning to end of
feeding period RATION FOR COWS-PEA-ANDWHITE GRUBS
$\qquad$
$\qquad$
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$\qquad$
$\qquad$ Wy and good oat straw, for feeding to I plowed up a f field this fall which
ad been in sod for five bottom of the furrow 1 saw quite a lot he likely to attack the the grain those
gext
spring ? Is there any way of poisoning or ketting rid of them way of poisoning
Cops will they the thent kind of
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QUESTIONS AND ANSWERS Miscellaneous.

A FREE-MARTIN

1) twine the other calf being a bull, whic was castrated. The
leen noticed in season. 1. Can anything be done to make he bired? Will a bull so born beget stock? Ans.-1. Heifer
generally provered
to be barren, generally prove to be barren, but in rar
cases a heifer so born comes in season and breeds regularly. The barren heifer
twinned with a bull, and failing to show twinned with a bull, and failing to show
ostrum, is called a free-martin, in thi being imperfectly formed or contracted and there is usually more or less of
masculine appearance about the head. masculine appearance about the head.
2. Yees a bull twinned with a heiter ingle. RATION FOR STEERS Have been feeding steers for Faster
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3. In what propor barley and
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