## PUBLISHED EVERY WEEK. \$1.50 A Ē? YEAR.



Vol. XLIV.
LONDON, ONTARIO, MAY 6, 1909.
No. 867


BELL ORGANS
arb also a well-known standard.
prople who want the best
buy " bell." catalogut
buy "bell.". cataloour
no. 0 trils ablabout them.
The forll fliano and organ company, limited. GUELPH, - ONTARIO.



## ROOFING

Best for Houses Also
Our "Eastlake" Galvanized Steel Shingles have been tested by time. They have been made and laia and no weakness found yet. Any other guarantee necessary? FIRE, LIGHTNING, RUST and STORM PROOF
Let us know the size of any roof you intend covering and teresting offer.
Note what the "Philosopber
. Metal Town" saya on page Netal Town" says on page
783 of this issue.
Metallic Roofing CO.
MANUFACTURERS
TORONTO and WINNIPEG


When Writing Please Mention this Paper


#  OVIE USE FOR A PICIET EENCES 

THS piture shows how one woman used her picket Dairy Tubular bowl, hung below its bearing fence to dry the disks from her "bucket bowl' cream and fed through the lower end, Our patents separator. She realized the need for using a separator prevent imitation, so others still make "bucket and the work of thoroughily washing a half bushel of disks bowls" out of date years ago. twice a day, but she did not know that the simple Sharples Dairy Tubular would have saved her that worl and given better service, or she never would have let her husband buy a disk machine.

## Two Wrongs Don't Make a Right

"Bieket bowl manufacturers are wrond in the first place, in using wide mouth, squatty, "bucket bowls" fed through the top. That kind of bowl is not modern. They are wrond. again, in flling their bowls with disks or other contraptions, for such parts do not make a steady, simple, light, easy to clean, durable bowl. These two wronds don't make "bucket bowl" separators desirable or ridht.

The only modern bowl is the light, slender, simple
"bucket bowl" machine, and insist
Anyone can build disk séparators cheap and just as good as the "old original" disk machine. Any dairyman who is willing to.endure the inconveniences of a disk or other
on trying one, should buy one cheap-then he will not lose so much cheap-then he will not lose so much washing a "bucket howl" when he throws it away and replaces it with a Sharples Dairy Tubular. Disgusted farmers are throwing away "bucket bow"" machines, both new and old, and-replacing them with Tubulars. Not a pleasant experience for them. Avold it by getting a Tubular. The manufacture of Tubulars is one of Canada's leading industries. 1908 sales way ahead of 1907-out of sight of most, if not all, competitors combined, 1909 souce The Sharples Separator Co. catalog No. 193



For Drain Tile, Red and White Buinding Brick AND CEMENT CHIMNEYS, WRITE: R. J. DOYLE, OWEN SOUND, ONTAIRIO. BEST RESULTS OBTAINED FROM " ADVOCATE


## Making Hay

As all progressive farmers are at all times ready to adopt any new machines which prove economical, we print a letter and clipping received by Dain Manfg. Co., Preston, Ont., from a party using their Loader.

Kingsmill, Feb. 27, 'o8
Dain Manfg. Co
Gentlemen,-1 enclose clip, ping from "Aylmer Express," ping from
of July 25th, 1907
" The haying outfit of L. M. Brown, of Kingsmill, put in $3^{1}$ loads of hay one day last week, the product of 14 acres, Twenty-eight loads were loaded with a Dain Hay Loader od with a Dain tiay oly one man on the wagon, and for twenty-four loads the man
drove his own team. Mostly unloaded in a shed with ordinary horse fork, although a gasoline engine is used for un-
loading in the barn. This looks like very fast work, and shows what can be done by an up-to-date farmer with
modern machinery, even if men are scarce."
I do not regard this as at the loader easily kept the unloading gang at work, and to work in most of the time.
I believe one man'with your loader and roller racks, such
as we use, will load ten loads as we use, will load ten empty
per hour all day, if empty per hour alb cay, to himp in the field.

Respectfully yours,
I. M. Brown.

For further information and circular of this machine, write:

DAIN MFG. G0. PRESTON, ONT.


This cut shows how boulders are removed by using

Spring Clearing by Using STUMPING POWDER

Manufactured by Hamilton Powder Co. You will find it to be the best, cheapest and quickest way STUMPING POWDER is indispensable to farmens who have these pests on their lands
write Hamilton Powder Co.'S orfice (nearest to where you reside)
Toronto, Ont. Montreal, P. Q. Victorla, B. C
For FREE descriptive catalogue and prices. Write to-day


CANADIAN PACIFIC no change of cars golng to
Western Canada
ON C. P. R.
Homeseokers' Excursions
Special Trains from Toronto
April 20th and every second
Tuesday until September 21st,
Low Round-Trip Rates. Colonist and
For copy of Homeseekera' Pamphet, rates
and fuil information, apply to nearest
and

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TORONTO PHONOGRAPH COMPANY, LTD. 40 Melinda Street, cet,


First in the Hearts of the Countrymen DE LAVAL CREAM SEPARATORS
have, by their universal performances
of superiority, won for themselves the
f superiority, won for themselves
highest position in the Dairy EUERYWHERE
The De Laval Separator Co. 173-177 William Street, Montreal
VANCOUVER WINNIPEG


Spray with the EMPIRE KING






FIELD FORCE PUMP CO 666 Eleventh St.,

## AMERCCAN FENCE


made by the Canadian Steel \& Wire Co A sound, substantial, endurmg fence, built on elastic, hinged-joint principle-the most scientinc, priac known. It yields to great and sudden pressure
original shape. original shape tected against weather
forsale by
Reliable dealers everywhere. Insist
on having fence that will give you absolute satisfaction. If your dealHAMILTON, ONTARIO, WINNIPEG, MANITOBA.

BESSEMER GAS ENGINE OIL
wil make your engine rut beter and hast onger $\underset{\text { A. W. WARKS }}{\text { A. }}$ \& $\underset{\text { Pet }}{\text { SON }}$


WHEN WRITING ADVERTISERS, PLEASE MENTION "THE ADVOCATE""

Spring is Here AND WITH IT SEEDTIME That means that harvest will soon
follow. Have you got your barn in shape? If not you nee
Junlor Slling Carrier.


This is the strongest and best
working carrier made, and it will working carrier made, and it will
operate with either Fork or Slings.
For particulars, prices, etc., write: Louden Machinery Co., GUELPH,



# The Farmer's Yivocate <br> Persevere and Succeed.' <br> <br> \section*{and Fome Magazine} 

 <br> <br> \section*{and Fome Magazine}}

EDITORIAL

## Spraying Before Rains

 Fchardists of many years experience who for soon after a rain as possible, for the control of ot in grapes, were surprised, at the convention held some time ago in the Niagara District, hear that it was better practice to apply the spray immediately before a rain. It was pointed growth during and immediately after wet weather and that when dry spells came the tissues became so hardened that the spores of the dread fungus Could not gain entranceEveryone who makes a study of spraying fo fungous diseases will agree that, under certain conditions the new gospel is right. It is ad done in spreading the disease when the shoots are growing rapidly. If, then, spraying mixture that destroy the spores of the fungus can be ap plied to these young shoots before the part is infected, in such way
damage is avoided
What orchardists want, however, is something What can be worked out on large plantations. The new doctrine is open to criticism on many points. How can any man arrange to spray from ten to forty acres between the time he is convinced tha wet weather is about to set in , and the time the rain begins to fall? How many times in a sea son would different growers decide that a we spell was imminent, and prove to be false proph ets? Would the application of spraying mate rials be effective, provided a drenching rain con inned for several days atter the work was dore grapevines immediately before a rain is of great value in combating rot. On small vineyards, and in cases where the spray can be applied quick fore rain falls, the result doubtless would be satis factory. In the case of continued rain, and con sequent continued growth, is it possible that there would be sufficient spraying material to prevent the entrance of spores, or would it have effect
only on the growth made during the early part only on the growth made during the early part
of the wet spell? This is a point on which growers want to be clear, and it can be settled only by practical work. The main object is tion immediately before a rain is more effective than an application at any other time, then, Dy however, such application is liable to be washed off, thus necessitating another spraying as soon as the rain ceases, it is equally important have those interested made aware of the fact. those who have the means and the equip tuent. it might be advisable to give a thorough spraying both before and after a rain. Every-
on. however, cannot fall in line with this pracwever, cannot fall in line with this pracFor localities where that a thorough applibe made as soon after, rain ceases as posprove to be effective and economical on plantations, and in cases where the rainfall heavy, but it never can become popular in al practice on extensive fruit farms. There spraying, but the cost of material, hire for and horses, and wear and tear on machinery

It is Up to the Breeders. draws pointed attention, in another col mn to the fact that farmers who want cred itable Shorthorn bulls of dual-purpose breeding should he willing to pay a fair price. He complains, as other breeders have done, with reason that prospective purchasers of dairy Shorthorn herd-headers commonly limit themselves to forty or fifty dollars for a bull, whereas a beef-making farmer counts eighty to a hundred and fifty dolars well invested if he can get the type and qualof sire he wants.
The point raised is worth a little inquiry. We fear that a great many dairy farmers cannot escape the imputation of belng oversaving in the class of bulls they buy. hat the sireter thanks to his prepotency he wisdom of liberal outlay for a high-class tock-getter is beyond debate. The dairyman's parsimony in this regard is probably due to severcauses. First of all, bulls of the recognized dairy breeds can be more economically bred, and have commonly been more cheaply sold than those of the special-purpose beef breeds, because the dam of the dairy bull pays for her keep in milk checks, whereas the year's keep of the beef bulls dam is a first charge against the calf. Also, it must be remembered sat, enhanced to the same extent as Shorthorn values by rich men who breed cattle as an avocation or hobby, and can afford to put more money into the business than they take out. It may be replied that the operations of such reeders do not affect the values of the lower class of stock, but undoubtedly they do, for when liberal prices are paid for top-notchers the tend ency is, through sympathy and speculation, to in crease somewhat the prices for all grades except manifest culls, and sometimes also or in illustra go outside the realrn of breeaing for an inustra tion, there can mands and high prices ofered for American corn of one class and another increas the price that cattle-feeders pay for it, to a figur much bevond what they would otherwise think they could afford. Two factors which operate to regulate prices are what the purchaser is willing or accustomed to pay, and what the seller de mands or can otherwise obtais
We see, therefore, several factors which in th past have operated to maintain the price of Shorthorn bulls above those of the dairy breeds hence, in part, the more circumscribed idea o values held by the dairy husbandman. This may be further attributed, in some cases, to previous disappointing exper ex ength show sires, purchased on the strength or type and sacity ring excellence, rather than heredortunate experi ence may have led him to pessimistic conclusions concerning the feasibility of increasing milking guality through sire's influence. This mistake i being gradually corrected to-day by the increasing stress placed by dairy breeders upon authenticated records of production, and the most enterprising dairy farmers are now looking for bulls with Record of Merit or, Record of Performance an cestry, and paying fair prices for sires of deep milking strains. terprising and inberal rar shortho many high-class dual-purpose Shorthorn bulls being bred in Canada, and in seeking to buy one a purchaser runs a long chance. His difficulty is much greater, because there are no officially authenticated year's dairy records of Canadian

Shorthorn cows; consequently, in seeking to pro cure a bull of such strain, one almost has to go it hlind. The net result of this has been to turn the best-paying dairy-bull customers will not likely go the Shorthorn breed, and "shown"-in back to it until they have been shorthorn Breed, ss' testing and Records of Dairy Performance of Shorthorn cows, and a number of breeders take adventage of the system to develop the milking propensity generally in their herds, proving in indisputable black and white that it exists, in what strains, and to what extent. 11 is all the well to talk about educating buyers, but the stockman who wants to do businessants, and then what the enterprising purchaser was it in quandemonstrate contment Otherwise, the purchaser will simply take his cash to other counters, as the wide awake dairy farmer has been doing.
The encroachment of the dairy breeds upon the field of the Shorthorn in Canada is undeniable, and it is chiefly due to the fact that the milking quality of Shorthorn cows has been allowed to languish, mainly owing to a wrong system or management. There is stil a demand line of Shorthorn bulls of certain circumseribed lines of breeding for the American market, Wastern farmers quest from the West, and itle, and continue to who want duat-purpocause it is nearer their requirements than any other. The fact that there is as much demand left as there is, indicates the immense scope there would be in Canada for a deep-milking, dual-purpose breed. If Shorthorn nen wish to provide against future inroads, and win back a demand that properly belongs to them: if they wish to breed a class of cattle adapted to the economical breeding of high-class beef on high-priced farms, they must ance, kut deface, not tentatively, and fure of the breed cisively and for good. the breeders. Collectively and individually it is up to them. Breed the natle, and they will command the price. But the cattle must be genuine double-deckers, pre the cattle must be gent in transmission both of beef type and dairy capacity. The day has gone by when we can call Shorthorns dairy stock simply because they are not anything else.
can be and must be combined.
Meantime, let buyers remember that really good dual-purpose bulls are scarce, and when one

Pioneers in Good Farming Competitions. those in charge of Manitoba's agricutural educa tion propaganda, persist in referring in the cood Farming competition 1908 being the postage stamp Pro nce in in in in in in thed tho Dominion one despatch states: "This compotition is similar to that carried on in 2ueber, as that was a competition in good farms." It might be interesting to our Easter farmers to know how good farms could be es tablished without good farming. The fact is Manitoba is not the pioneer in this line of agri cultural education. A new name may have been devised, but the details of the competition ar similar. tion inaugurated prize farm competitions in 1880, and they were continued for, several yeare the Province being divided into groups, and on
has been inoculated into rats, thus generating a disease similar to typhoid fever, and playing written to Germany for particulars.
Why not try Ontario's old reliable common cats? Perhaps the Manitoban official coul profit by importing a few, and establishing breeaing station.

## Mystifying Rules

That only such matters as are designed for Horse Association of Canada should be addressed espondence requesting information, applicatio forms, transfer blanks, etc., should be addressed to the Accountant, National Live-stock Records Ottawa, is the important point of Mr. Sangster's letter, published elsewhere in this issue.
of opinion that a good many readers will be re lieved to have the matter thus distinctly stated. so far, so good.
Proceeding, Mr. Sangster replies, in passing, to our remark to the effect that the directorate of the Clydesdale Horse Association of Canada has been " making an unenviable record in the incubation of new and mystifying rules and regulations," arguing that all these were badly needed and beneficial. Without debating this point, we that has been given in bringing them severally into effect, and more especially the obscure and into effect, and more especialy he them, ampl justify the characterization applied. Not t expand the point, let us cite, for the purpose Illustration, this one, quoted from the back of the secretary's official letterhead

The following are admitted to registry:
IMTOORTED ANIMALS. - Stallions and mares Clydesdale Studbook of Gireat Britain and Ire land, whose sires and dams, together with their sires and dums, are also recorded and bear regis tration numbers in said Studbook, provided that
the breeding of such sires and dams, if already the breeding of such sires and dams, if already
recorded in the Clydesdale Studbook of Canada as ancestors, comply with this rule."
How many times will the average man have t

Buy in Stores for Cash
goes to make operations thorough, up-to-da and practical, were taken into consideration. As far back as 1867, Quebec held good-farms agricultural societies. Similar features have characterized the work of the Provincial Departnent of Agricuture "ery sar shce 1890, under provisions stipulate that awards go to the bestkept farms. In fact, Quebec has perhaps the most thoroughgoing competition on the continent. It does not end with an examination of the farms and placing of awards. No expense is spared in preparing an attractive and cducational report nutlining every detail.
Manitoba is doing a laudable work in her Manitoba is doing a laudable work in her
good-farming " competitions, but it is not necessary to represeht that agriculture hits developed all these years in Canada without such means
being adopted in other Prowinces to show farmers that it phys to ine systematic and thorough in

Rats in the West.
Rumor says that somitherny mitwou has an
 os neason whe furmers in vestern Canad ho windswept praitives of the West or the Western Provinice nas beren arrousell to



$\qquad$
$\qquad$
not come down from this IIte ool unt erver ut
int
int




$\qquad$
Last summer you published a couple of pointe editorials advising readers not to encourage o
permit the expensive and time-consuming atten tions of peripatetic agents and salesmen, but to where different makes can be compared, and a impartial decision arrived at recent experience of ours in buying a sewing machine is so thoroughly in line with your sug-
gestions that I thought it might be acceptable. For a year or more we have been favored by fre
quent calls from the agents of one sewing-machine store IFour difierent men came, at four different pose, onlv that my wife had once had an pexper its pur ence with a hook agent, which inoculated her for
all time with an anti-agent vaccinc. So to each man she said a polite but impregnable " No than When we did get cady, we took an afternoon. And visited the local stoves of several leading
Cirmi. had them explain the good points of theil particular make we would prefer. if we took any. rock bottom cashlesman: "Now. what is for that machine on
 heave discount from the niminal crodit price ont "ards for $8: 33$ A other offered us, "machin
$\qquad$
$\qquad$
in two, we wouldn't take his machine "ho made the sale had the good sense to lea
lone. He saw we were determined to make ack decision, and left us to do it, never co and settle. The chances are they mad noney on this machine, at $\$ 28$, than on
old for $\$ 48$ on long time and precarious fiter driving over the country half a dozen tin as they probably had to do.
If you enjoy the sensation of being chased badgered by salesmen, you can have it in
hint But bear in mind that you are liable
Hopot-CASI

## HORSES.

## Is a Stallion-license Law Advisalble?

At the recent session of the Legislature a ee, and presented the claims of the horse-breeders of ontario for legislation. in the inter recommendation they asked for Horse-breeders' Association, which had been fully discussed and approved of at the Winter Fairs at Guelph and other things those recommendations include the licensing of stallions. The members of the Agricultural Committee decided-no doubt, wisely-to In the meantime. the question is before the people. hnd it seems incumbent upon those in favor of
egislation regulating the breeding of horses and the licensing of stallions, to do some moulding of ublic opinion, if they "ish The enactment of a stallion-license law is a ather knotty problem for legislators to handle. Wnless there is a strong public sentiment in its with any degree of enthusiasm, no matter how hecessary such legislation may be in the interests of horse-breeding. This was clearly pointed out
or many members of the Agricultural Committee vhen the request for legislation was presented to them, a few weeks ago. This attitude will not be lessened any, if nothing is done between now fluence public opinion in favor of a stallion-license aw. The approach of the breeding season af ords an opportunity to horsemen to do some ery effective educational work in the interest of wuh legislation. Might it not be possible f
tallion-owners and others who are in favor of
licence law to circulate a petition asking for license law to circulate a petition asking for the
signature of farmers in favor of it. Such petiions might be placed in the hands of parties who travel through the country in charge of stallions
and who could secure signatures. without vers nuch to the advisability of cnacting a stallionopinion, even amony horsemen. Such a law however, drafted in the hest interests of the business and properly and intelligently enforced, ods in Ontario. While breeding methods have improved somewhat of late years, due to a better
pnowledge of what is required on the part of farmers generally. there is still enough promiscu ous mating and breding to unsound and inferion
stallions to make some legislation in the way of regulating the business necessary. difflicult of enforcement than the legislation passed at the last session of the 1 egislature controlling
the erection of cheese factories and creameries. the erection of chesese factories and creameries. prohlem for lepislators to tackle. There are
$\qquad$ a modifiod form of such a law. There is an agy
tation on in New York State for such legislation
 Wort of the Torse Commission cannot hut be con-
ince. that something must tie tome if ntario is
to take the place slie should in the breeding of


ters
. pertaining
The Sertical
Secretary-1 he Secretary-treasurer of the Clyslesuale Horse Associaton orper and exponent of registration conditions,"
terpreter and
are the facile words in whicl the assumption is announced.
P'ermit in originated, it was not the theory upon which the Canadian National live-stock Records were
iounded. A careful perusal of the report of the second annual convention of the Canadian Nationad live-stock Association, a copy of which. is
doubtless to be found in the archives of "The
Farmer's Advocate," will afford some edification Farmer's Advocate, will alford some edfication
upon this matter. desdale Horse Association of Canadu, if home er's Advocate " have until now failed to grasp the fact that the whole business of carrying out
rules governing live-stock regisiration for all
affiliated breeders' associations is the work of the National I.ive-stock Records Office alone, under the supervision of the live-stock kecord Board.
In order to facilitate this, and for their own protection,
business.
The enactment calling for a service certificate irom owners of stallions, as well as of dams, was
the work of the Clydesdale Horse Association of Canada, and as such was reported, upon ratifica-
tion by the Minister of Agriculture; while the equisition that this cer the purpose out only fice regulation of the Live-stock Records.
For many months, during the past three years,
mave advertisements appeared in the columns have advertisements appeared in the columns of
"The Farmer's Advocate," and other agricultural The Farmer's Advocate, and in which the outstanding feature has always been, "Write to the Accountant, Nation-
al Live-stock Records, Ottawa, for information, al Live-stock Records, application form, transfer blanks, etc."' In fact, the concluding words of the article in question
were: /" Address all correspondence, and make fees payable to Ac
tock Records, Ottawa
ow stands, is very simple, and easy of compre hension. All rules and regulations governing egistration of Clydesdales are formulated and
nacted by the Clydesdale Horse Association of anada only at annual or specially-called meetngs of that body, and the work of carrying them ut is the work of the Canadian National Live-
toch Records alone. Under this constitution, stuch Records alone, Under this constitution, the scretary is given no authority in matters re-
tarding ration whatever. Only such mat-
ters as are designed for the deliberation of the ers as are designed for the deliberation of the officers of the Association should be addressed to
him. Information is only offered by the author him. Information is only offered by the authorbut will be checrfully given to anyone on rehe work of the Secretary-treasurer and his repponsibilities, and indict the executive officials of the Association with "earning an unenviable
repuration for the incubation of new and mystiying rules." Permit me to state that these the work of registration, should not prove
perplexing to anyone except the man who is tryperplexing to anyone except the man who is try-
ing to evade them. The officers of the Clydesdale
Horso Asocintion of Canada will, doubtless, joyfully itead guilty in this case. fith the work of registration, that every rule plies to situations and conditions which have long called for redress The National Live-stock Records, established for the purpose of maintaining
the prestige of Canadian records and Canadian The prestige of Canadian pecords and anadan objert were discrepancies in old rules and condiTo the exnerience, alilit, sound judgment and
urage of the officials of the Clydesdale Horse Csociation of Canadia, as well as the determinaNo of the great majority of its members to acamadian Clydectale perdicree. the Canadian Nadian horcemen everswhere, have reason to feel
erateful. Vot onls is thic the case. hut erateful. Not anly is thic the case, hut r with the enactment of such rulpe and

cocate, for the space required for this explanatory article, and leaving the matter of a reply
dour scottish correspondent to the proper your Scottish correspondent to the proper of-
icial, I remain,
Sec.-Treas. The Clydesdale . W. SAVGSTERR.

Horses Versus Automobiles.
Senate cver a proposed amendment to the ap- propriation bill, which provided $\$ 12,000$ ap-
automet automobiles for President Taft, says a Washingin which he showed the fallacy of the idea that electric and steam motors are driving horses out ing business. The Horse World, also, in commentins ". During the bicycle craze we were frequently warned that horses would soon become useless, ex-
cept for plowing or heavy hauling. When electricity was applied to street-car service, we heard
the same prediction was expressed that the noblest and most regrel gent of animals should be condemned to pass into oblivion.
.13ut the contrary has been the case. There there ever were before; they are worth more money than they ever were before; they are jncreasing in numbers and in value, notwithstand-
ing the electric street cars, the motor wagons and ing the electric street cars, the motor wagons and adoption of steam and electricity as a motorpower in farming, and in every business and trade
that requires locomotion
". The number of horses in the United States, January 1st, 1908, was $19,992,000$ and they were worth a total of $\$ 1,867,530,000$, or an
average of $\$ 93.41$ each. During the succeeding year, ended January 1st, 1909, the number of horses had increased to 20,$640 ; 000$; their vasue
had advanced more than $\$ 100,0 c 0,000$ to the sum of $\$ 1,974,052,000$, and the average price wa
$\$ 95.64$, or $\$ 2.23$ more than the previous year $\$ 95.64$, or $\$ 2.23$ more than the previous year.
i The average price of horses throughout


Adbolton St. Mary.
Hackney mare; chestnut; three years old. F
class and cha ally Automobiles came into general use more rap- cow has cleaned. As soon as the cow period, but, notwithstanding that fact, the num- ing drench: Epsom salts, one pound ; sweet. ber, and value of our horses increased more rapidthe calendar year 1907 the horses increased 245 , ONO in number, and $\$ 20,952,000$ in value. Durin number, and $\$ 106,522,000$ in value. also be taken into consideration, because thoualso be taken into consideration, because thou-
sands of mules have lost their jobs because of the introduction of electricity as a motive power. There are now in this country $4,053,000$ mules,
which are valued at $\$ 437,082,000$, or an average Which are valued at $\$ 437,082,000$ or on average of $\$ 107.84$ per head; that is, ab,


Farmer Would Stil be Free Agrent. 1 read a letter on licensing stallions in your
issue of April 22nd, by a man signing himself ". Old Country Joe,", by a man would ligning himsel answer regarding legislation. 1 think it would be a good thing for this country, not only for a farmers, but it would help the man that has
a good stallion. The man who buys a horse is not asleep nowadays. He knows a good horse when he sees him. There are some farmers that
can be persuaded to breed to a scrub. As for importers having it all in their hands, I am for an importer, but I keep two imported stallions. 1 think "Old Country Joe ", doesn't know what he is talking about when he says he could buy a
stallion in the old country for $\$ 100$ to $\$ 150$. Any old plug you have to pay $\$ 100$ for here, and the idea of a man talking about buying a stallion for that money is absurd. There are grade stallions which have fees from $\$ 2$ to $\$ 5$, and
the owners will try to make the farmer believe that they get just as good colts as the $\$ 15$ stal lion. It does not sound to me like the Stand-
ard Oil Company business. There is one good anadian-bred horse to five imported ones. I say lerislation would be just the thing. ficense would be the thing. The farmer would be a if he had any sense, he would breed to the that, horse he could sense, he would breed to the best breeding stallion if they were licensed. About scrub stallion, think "Old Country Joe" has a hance to get out. A man that has a good stal ion can make enough for his boss, without working the horse to make muscle.

## LIVE STOCK.

Retention of the Afterbirth.
itor "' The Farmer's Advocate "' :
Having seen a couple of articles in recent
Having seen a couple of articles in recent issues of this valuable paper on retention. of the afterbirth in cows, I thought I would send a
treatment which I have used for some years, and believe it to be
satisfactory in ninety-nine cases
out of one hunWhole oats or flaxseed meal may be a very good trouble, but I'be iieve, as your veterinary ed it or
sitated, it is somestated, it is some-
times met with in cows under all conditions. I be
lieve the real lieve the real
cause is either from the cow be ing exposed to the
cold, or from taking a chill at chering time, as
he retention
is imply caused by swollen state of the little fleshlike buttons that asten the placenta the womb; and a cow in good or or
en ordinary conlition, kept in a
varm
stable, is Warm
very
troubled in the
stam spirits of nitre, four tablespoonfuls; ginger, one tablespoonful; belladonna, two teaspoonfuls, dis solved in a pint of lukewarm water. Put a
couple of horse-blankets on cow, and keep her couple of horse-blankets on cow, and keep her
warm ; also keep half a pail of hot salt on her back in a grain bag. Don't touch the cleaning
for thirty hours after giving the medicine. In for thirty hours after giving the medicine. In
ordinary cases, it can then be easily removed by rolling up the sleeves, and oiling the right hand with sweet oil, so as not to irritate the passage, then catch the cleaning in the left hand, and slip he right along the cleaning into the vagina, in
order to get a good hold on the thick part of it order to get a good hold on the thick part of it,
so it will not break off. Pull gradually, and it
will generally come away all richt; but if it is
still tight on the littie flesh rike buttons, jet it remain another day, and repeat the drech ment
tioned above. If the cow has not cleaned hersel tioned above. If the cow has not cleaned hersel by the third day, it can then be easily remove
by the hands in the manner mentioned above
C. WESLEX POLLOCK. Bruce Co., Ont. C. WESLEY POLLOCK.
[Note.-While we fully approve of the measure Advocated for keeping the cow warm, we do no
approve of the dosing, as purging necessarily low approve of the dosing, as purging necessaril always
ers the vitality of the animul, and there is alwate some risk in drenching a cow, in case she refuses to swallow, of the medicine entering the bronchial
tubes and, the lungs, with serious, if not fatal tubes and the lungs,
results. If the membranes do not come away within 24 to 30 hours, we advise removing then by the hand, anointed with carbolized oil, care
fully unbuttoning them, until the last one is fully unbuttoning them, until the ast one
stripped from its fastening. The writer has perstrpped this operation in dozens of cases, with never any bad after-efects, and it is a relief to all concerned to have the unpleasant appearan
alemoved in a reasonably short time.-Editor.

## Retention of Afterbirth


 paper a subscriber recommends, to prevent cows retaining the arterbirth, to feed each cow a pint
of whole oats for two weeks before calving. notice, Mr. Editor, you are disposed to make light of it. 1 also notice your vot Now, I wish to inform you, 1 think it is about forty-five years ago, when I was a boy on the farm, I overheard a neighbor give my rather the very sam and thorand what believe it is a good remedy. Why whole oats are better than ground oats, I do not know but experience has laught me such is the case edy. For the last fifteen years we have been Toeding, silage, and, while silage has many
to recommend it, this is one of the best. It seems to prepare the afterbirth to come are liable to have excentions to any rule. trom any cause the arterbirth to have it taken haurs carefully by

## Daul-puppose Shorthorns Eco-

 nomical to Breed.Let Shorthorn breeders go in for development earling buls for a hundred dollars, at a neat proft, while in periods of slack demand, they will selling any stock at all, because the cows will pay their own way in the dairy, even though the calves had to be vealed or beefed. Shorthorn
breeders must milk their cows, and especially their heifers. This is the policy that will pyy hest for the majority of breders, if followed
besternatically, with persistence and judgment sesstematically, with persistence and judgment,
The cows will be good breeders and the young stock thrifty doers, as Prof. Arkell reports of the
dairy Shorthorns at Mucdonald College foumke The dide that milking capacity and beet quality are antithetical, and cannot be advantageously com
bined in one breed or one individual, is an absurd notion, advanced by professional theorists, sup-
ported on the one hand by champions of the -pecial dairy lireds, who made capital of it against the popularly-entrenched Shorthorn grade,
and conceded pasively on the other hand by
and many leading shorthorn brecders who were un
milling to arn and maintain dualpurpose repu
will ation by milking their cows. So long as farm ers continuect to buy bulls on the strength or the
past reputation of the breed for miliking quality
this policy suited the breeders to perfection, bu lhist repuicy suited the breeders to perfection, but
howadavs purchasers are beginning to demand proof of dual-purpose capactery pretend to say that
We do not or a moment perfection of beef type can be quite as closely ay
proached on the average by a dual-purpose as
 duction will te attained as by the spectial-purpos
dairy breeds. Nor yet do we forpet that. dairy brectse the protit. so, therefor, an addition
the extra lies
al unity of mikink quality is an important co sideration to a husins sq dairyman.
What wo do cllaim-and it. is supperted
 fion of these nttrilutus cun be ntanned. which


## Pay More for Dual-purpose Bulls.

farmers should breed a betcer chss of beuld cause a larger consumption of beef in our cities and towns. This could easily be done by banishing the scrub bull and stopping the practice of cross-breeding and mixing up with the dairy the dual-purpose cow, but farmers can improve her dairying quality a good deal more by paying attention to the breeding. In the first place, secure a good bull, as he represents half the herd. We Shorthorn breeders find the difficulcy way a most of the dairy farmers is they iorty or fifty dollars for a bull. No Shorthori breeder will sell one for that price. Consequent ly, the farmer will pick a bull up on some sich
line, which is a red, white or roan, perhaps with a pedigree. Now, what can a man expect from such breeding ? And yet the Shorthorns get the
credit-of that breeding. Our agricultural paper and agricultural professors, and even Institute lecturers, are blaming the Shorthorn breeders for the lack of the dairying qualities in the Short
horn. I say you are wrong in blaming the breeders. The Shorthorn breeder is going to cater to
what will make the most money, as there is too little money in the business at any time for the man that is raising beef cattle is prepared to pay from eighty to one hundred and fifty dollars for his stock bull, and claims he is the only kin
that will make him money. He wants the low that will make hearly-maturing kind, as it costs the hreeder just as much to raise the one as the ing qualities in the Shorthorn, you must educat the dairyman to pay about equal to the beefmar for his stock bulls, and then the Shorthor

## Keeping Hogs for Profit

Editor "The Farmer's Advocate":
For the last ten years I have been to some extent interested in the production of pork, and, ful object-lessons, I finally agree that there is a profit in hogs. Some farms are especially adapted to the keeping of hogs for profit, while others are the reverse, A great deal can be done by breeding any color, type or kind desired, but one thing that no man can do is to change the nature of the hog, nor
yet his appetite. His wild state must be considered when in captivity and domesticated. Freedom is necessary. Confine him to a pen as little as possible in winter, and rarely (if ever) in sum-
mer, except the last thirty days of his life, in finishing quarters. I find that a hog in captivity requires more feed than when he is allowed

## To be able to keep hogs ior profit, there must

 be some cheap way of feeding, or, at least, there must be some cheap feed-cheaper than the popuNo wander the question is often asked
tion being asked, "Do spring litters pay,
undoubtedly they do. In the warm summer
dairy ofial, with plenty of green feed (alfalfa ing my favorite), hogs can be produced with prat
it. 13 ut with the conditions that surround us dyl ing our Canadian winters, even at the good pric done with profit?" My experience is that it
can. I will describe to you how I hring this about. Finding it necessary to instal power for
grinding of grain, and all work for which power is now needed on the farm, $T$ chose steam power the option of steaming, cooking and boiling for ing time. For fuel. I use old stump fence. Which stump fence would not stop the hoess in summer therefore fuel is cheap, not counting lator. boiler, and drive belt, some distance from barn danger of fire. With this power I drive chopper
and cuttine box. Alfalfa hav is cut fine and and cutting box. Alfalfa hay is cut fine and top or cover. Water is turned in from nothe
tank, until perhaps up to within twels. inches an the top, when it is shut offi, and hot stwam from the hoiler furned The next morning this lid if

esh, and colts. This hay lea, with a ration th a very small amount of grain, and will give suitable reward for the labor in raising hogs he hogs kept comfortable. As this is the third winter's experience in this class of feed for hogs, 1 cannot on the production of the breeding sows. This spring I have five sows that have already farspring, and there is yet to be the loss of one oung pig, all having good litters. All farmers or perhaps steals away for the purpose of having her pigs in a fence-corner, in some quiet spot in a field of grass, without the attention of anyone,
Why is this, she will have greatest success. has taken its,
For this reason only. "Nature has course," for it is "The Good Old Summer Time,"
Therefore, in winter, you must initate summer as losely as possible, as to conditions of feed and eeding. The class of feed which I have outlined be fed between the period of weaning and the weight of 140 pounds, alive; after that, a harder
One hundred pounds of each hog should be produced cheap, in order that we can keep hogs for profit. My spring litters always come in the months
of February and March, and are rushed along as ast as possible, so as to have them take hold of grass as soon as weather will permit, and also hat I can strike August market, which you whe My sows farrow but twice in one year. With the scond crop, or fall litters, my object is to have them farrow as early as possible in the summer, eeding. The class of feed force him; therefore, it takes a longer, period than spring litters, there heing no special reason for rushing them, only
for the making of room in the pens for the spring or the making older crop always should be gone when the young pigs need room. On the average, at the end of five months, wis hogs weigh I cannot say just how much hay, milk, roots and other feed T require to produce 100 pounds
of gain. My object in feeding is for a profit, and of gain. My object in feeding is inever considered expens. This winter my hogs have consumed per*'0 pounds, up to 140 pounds, alive, less than 300 pounds of grain (barley and oats). grequen miker is kept in the herd too long, and in the fall (Toronto stock market refers to them as canners) their teeth are so bad they cannot hept until spring, to be fatiened on grass. Beef is very chean when she will be ready. Under my
class of feeding, a cow can be milked up until late in the fall, providing she is not in calf, and be in spring when the price of beef is nearly doubl n spring, when the price of beef is nearly doubl
what it is in fall: therefore, the price obtained for a good large cow will buy a fresh milch, and the stahle need never be emply possibly the boted alfalfa is no than steamed alfalfa, but it serves a double purpose-

THE FARM.
Should be a Drag in Every Division
5 of it for keeping an carth road in repair. The
piece I undertook to repair ran through a swamp, Dragging is insufficient; it requires gravel or broken stone. What dragging I did the previous that I know af. There has heen no acton a drag in every division, as it would greatly improve

Drag on Gravelled Road
I used the split-log drag once last year on a round side ahead. The drag was heavy, and a compensation
a splendid jot). Was allowed no comper has been To action tahip in this townchip to provide for Mace of the split-10g drag Rasfrew (on Ont. BROMLEY.

## THE FARMER'S ADVOCATE

## Good Work with the Drag

There has been so much printed in the columns of your valuable paper in favor of the split-log
drag. that it is hardly necessary to say much more about it, except to keep it fresh before the public. After two years' experience with the drag, 1 have no hesitation in saying it is the in proper repair. I dragged the same portion of in proper repair. I dragged the same portion of about a mile-as early in the spring as the roads began to dry on the top, and continued it on through the summer, as oflen as' it got a big got one of my neighbors at one time, after a big rain, to go along the edges of the ditch with the disk harrow, to cut the grassy shoulder of in places, and followed with the drag, bringing the loose earth to the center, making a pretty good the council has commuted statute labor this year and appointed two road commissioners for the
township. I don't know that any action has been taken by the council for the systematic draging of the roads, but I think it could be used to very good advantage on all clay or earth sections farmers along those roads, to be used after each hig rain, just when the clay is heginning to dry
a little. It fills the ruts, and leaves a smooth surface, allowing the water to go freely into the When a man is handy to the road, the work is quickly done, at a less expense than it can be done in any other way, for it is a well-known fact earth roads in proper repair. Thanking you for the interest you have taken in this important
work.

Details of Post Driver
I saw a fine plan for driving posts in "The Farmer's Advocate", of April 1 st, and would
like further particulars. The fences have to be like further particulars. The fences have to be
fixed up every year, and in the hot spring days, when the sun is pouring down, it is hard to stand with a sledge-hammer and pound stakes into the ground. Also, we have quite a lot of intervale land, on which, after haying, we pas-
ture cattle. We have to build a fence, and thought your correspondent would not mind telling something of the making of his machine. should like to know the measurements of axle pounder, derrick, and the frame, and other par Ans.-The axle is 11 feet from end to end, ${ }^{3}$
sills $4 \times 6$ in., and 10 feet long; sill under derrick same size, and 12 feet long. It projects
two feet behind axle, so to put a brace from the end of it well up, to side of derrick. Two cross sills $4 \times 15$ in., and 11 ft . 6 in. long; derrick, 2 picces $3 \times 6$
in., and 14 feet 6 in. long; two studding, $4 \times 8$
in and 4 fert can be halved 6 inches from the end, 1 inch deep,
con to form a shoulder to sit on top of sills, and
bolt firmly to inside of cross sills. The derrick bolt firmly to inside of cross sills. The derrick
is dune the same way, and hoth well braced. The 1s done the same way, and hoth well traced. The
sills are laid on edge on top of hind axle and
front rocker, and bolted there. The two inside sills should be placed on angle, as shown in cut, on top. The center piece, as shown in cut, is a
reach, attached to king-bolt underneath the axle. also bolted underneath the hind axle. There is
a piece bolted across the cud of the two sills. a plece bolted across the and of the tro sirs,
top and botom, nex pos, and the lever rest
goes in tyetween, so it an be shoved in when moving the "agon. There is a long brace on
each sid. of the derrick which projects two Thehus past the derrick, to form a step to oil
pulles, The hooks on the derrick are 5 feet from top of sill, and should be sumk into the wood a
little, and two good bolt.s in cach. The top of derrick leans in about 12 inches over wagon. Any it strike, post. Put $1 \frac{1}{2}$-inch bolt through rear of ront, to as to swing under irame. so much bet nut on one end, and a hole in other end to pu rod "fleigh-pole through . There are three pul
leys. The one shown on log is hitched to trip) Whith is not shown. (iet an exe made with
threat ahout 4 inches long, to screw into top

Notes from Ireland

$$
\begin{aligned}
& \text { Notes from lpeland. } \\
& \text { Mif: Thanimion of hisish AGikictluthe } \\
& \text { The division of the big grass estates into small } \\
& \text { holdings, and the creation of peasant proprietors }
\end{aligned}
$$ holdings, and the creation grass estates into small augur hopefully for the ofentual huild proprietors contenterl and happy rural population in Ireland a country which for generations has been op by unpopular and unfair land laws, among unrest disabilities. The responsibility for our industrial the country a certain extent being shifted, and proprietors is looking to the newly-established altered system of land tenure What a calam itous matter it would he if fond expectations

were to be disappointed, No legislation, per se, is capable of guarantee ing prosperity to any country, much though it Inay helps the people, rather than the parlia
ment, must always be the vitalizing force in every ment, must always be the vitalizing force in every
national regencration, be it industrial or other wise. It is. therefore, a matter of the most vital concern that our: future land-holders should realize
the obliyations which they owe to the nation and work their farms as the source of the counIry's wealth, with intelligence, skill and industry:
Will they do so? The question is one which will
Heitate many minds every part of the earth in which Irish affairs ar taken an interest in. Time will alone supply an
authoritative answer, hut if indications count for authoritative answer, but if indications count for anything it may he fairly said that there are
many bright stars of hope already shining clear ly, with others beginning to glimmer in the still somewhat cloud-haunted firmament of our agriculural world. Foremost among these omens of better things
would place the growing popularity of the eduational akencies in operation throughout the


Roadside Scavengers: Weed Consumers.
ing, and averted many threatening incursions up. The consistent and extending activity in these organizations demonstrates in the most orcible way the existence of a living spirit of independence and progress among those who con-
titute them. Passing
observer who happens to be "" in the know " cannot but detect the keenness with which the more ad anced class of Irish farmers are looking out
for improved market openings and better methods in getting their produce to the consumers. No doubt, in this respect (if I may say it without uiving oftence) many of them are ""out-Yankerd ".
in cuteness, and " out-Scotched ", in canniness, ind may have, in some other characteristics, to tcknowledge themselves less accomplished (?) or, lot us say, adept, than their compeers in other lands, but, "ithal, every student of the com(o) the credit of our farmers a well-developed, and straightforward business instinct. $\begin{aligned} & \text { ind } \\ & \text { does nace }\end{aligned}$ Spald does not allow me to cite examples, but I could

LABOR-SAYING IMPLEMENTS.
I rather interesting thought now arises, as to whet her the effects of enlightenment, co-operation,
interprise and other beneficial factors will be sufficient to counteract other tendencies which have of late years been reducing the tillage area of Ireand. This, from a purely agricultural standpoint, is the crucial feature, and assurance that
the plow shall enjoy a reign of greater popularity in the future than it has done in the past would Yo a long way to enhance our expectations. As ". The Fine more than one occasion, intimated in one of the chief obstacles-but not the only oneto the extension of tillage. Realizing this fact, Waterford by some Waterford by some
public-spirited men materialized in an event which ranks
as absolutely unique as absolutely unique
so far as the so far as the
United Kingdom is concerned, at any rate. This was a big working demon-
stration of almost every conceivable kind of up-to-date tillage implements, machines being exhibited by over 40
dififerent firms. The appliances included motor plows, four
and double furrow plows,
plows; one - way
harrows, plow s; harrows,
both spring - tooth and disk patterns ; various kinds of of
cultivators: cultivators; artificial
and farmyard manure distributers; corn drills, etc. The demonstration was
a huge success, and a huge success, and
was attended by something like twenty thousand farmers from different parts of Ireland, as well as large parties from England and Wales, and all observant spec-
tators availed of the exceptional opportunity of tators a vailed of the exceptional opportunity of
studying in actual working the wonderful modern machines that alone may be expecter to solve the labor problem, as well as rendering routine duties more interesting and attractive to the
workers. It is intended, during the summer, to organize a corresponding demonstration of harvesting machinery, so that the labor involved in tillage should not continue to prove an insur-
inountable hindrance to its spread. However, we nust wait patiently for, the verdict of experience, as to whether the reinarkable developments in machinery, in facilitating agricultural advancement,
will be fully availed of by our farmers. Prospects will be fully a vailed of by our farmers. Prospects

Hardwood Burned to Destroy It. I enclose you a few lines on the forestry ques-
tion. I homesteaded 200 acres, and my son an-
(1)ther 100, which I bought. Purchased another (1) ther 100, which I bought. Purchased another
100 from the Department of Crown Lands, at ture only as it is compared with places that are less so. Of course, I live, and grow good crops; out of the stored fertility of centuries That's
This is how the forestry question works out in
practice with me. I have 400 acres of what 12
other than pine 1 have cut and burned. over
noreses princiouli, heavy hard wood.
Anctiner
 acreses arod or dameged by the fires used in clear
dostryen am continuing this course at the rate of
int ing. 1 am continuing this course at the rate the
six acres a year, , etting the oldest parts ot ot the
 leand is too stony in my opinion to pay por
lhe labor of breaking at the present markee price
lot for help. Three hundred acres of this hlock are

 withstanding all the beantiful language theorizing on the forestry question,
anble to sell the timber on these lands which any more than pays tor the tabor. ". Sio. for my part, I pile it up and burn it, Birch,

 hows n tack of sense, dooss it? ? oget for this timber 100 years rrom now. And. is to the borrowing, at $20 \%$ interest, as was stated by an old lumberman to se narnine thought to be ${ }^{R}$, good investment foing any of standing timber, well, we are not doing any or reducing the green area, doubtless the argument that what remains increases in value, has much to support it, tutt on the remer inder becomes

 station, and a tew hundred yards from the iocated inne of another frim what 1 see have been
just wherein, juating from
 to beneft, through any alloeved inereased value on the timber or
the situation

$$
\begin{aligned}
& \begin{array}{l}
\text { Some hae wood that cannot hu } \\
\text { Some hae no wood that want }
\end{array} \\
& \text { Some hae no wood nhat we an } \\
& \text { So let the Lord he thank'it. }
\end{aligned}
$$

will some revolving-arm-chair, theorist rise

## Growing Mangels.

 an those arshens of the cou srown. the corn
 $a$ cheaper fread because wito to a latre extent it supplies the succulence desirable in conection
with dry fodder for winter feeding, roots sppeat ment neessary to the highest degree of healt and thritit in young stock, especially, and indeed tho arree extent in all claseses of catlue and shee while mangels or sugar beets
the economicell wintering of hogs.
the counonimialur whe has been discouraging in th ass few yearss, owing to the occastonana ourured th of the aphis or plant louse, which has aneeted the
cron but mangels have happily escaped insect enc crop, s, and menging more suitabe for feeding to to
andiry yons than turnips, on account of the tate


 in orter to $a$ suceassulu erop, is not so generali
entertained now ase in the past, and someme grower
 ing in May than carlier In wrom weat her, with
 rapid growth they make during the wemen
Erowth.
 the more thorough e the perparatory diage




 ness the ontario Agriculural College neve indis been hastened. and the yield laresel) incremstay
 and keep somewhat bectuel
first in tho list at (Guel)
years, in yield per acre. become dry anter somings roll them with a heavy land rolier to compacial
The soil but, to prevent evaporation of moisture

 and a haur to two inches high, traying she plan
about
tual alorely neewsary to stoon to use the fingers, as hom. Tman who knows how to do the net



## Beef-ring Shares

 requested by Wm . Becroft, of Victoria Co Ont. season for a supply of fresh beef by means of a
beef-ring, we give particulars regarding shares for different numbers of members. agree to provide an animal each for slaughter o successive weeks, said animal to be a steer or old, and to dress not less than 300, or in some clusive of head, heart, liver, feet, tail, fat of in ternal organs, etc., which parts, along with the hide, go to the owner of the animal. The serv ices of a competent butcher are secured to
the animal and apportion the carcass according to a fixed chart, cuts being supplied in turn, so that by the close of the season each member na
received an entire carcass. At the end of the received an entire carcass. among the members
season, settlement is made amone season, settement weights of the animals slaugh tered, on the basis of a fixed, stated price fo

## the average, Butchers have different charts for cutting int


table ready for saw. Before letimg this half down divide it in the middle, by running a saw ewarters on thin table, divide fore quarter at line

## No. © Represents neck. Saw neck off, leaving

 No. $1-$ Represents roast No. 1 . Suw roast No.1 on, leaving three joints on it. No. 2-Represents roast No, 2 . Saiv roast No. 3 No. 3- Represents roast No. 3 . Saw roast No. 1 off, leaving four joints on it. Suw front hamk off above upper joint. off, leaving five ribs on it.
Lo. $1: 3-$ lepresents first rilh cut. Salw it off,
leaving four ribs on it. $\therefore 0$ in Represents

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$\qquad$

$\qquad$ the earth. I quite agree with " (Observer " in ity ior underground water, but think his potat is rather obscure The fact is, as scientists teach us, that in the clectricity similar in character, but opposite in relations. For the sake of simplicity, we will the carth negative of the air positive, and of tion for the opposite force, but repels a similar particles of water and dust rising through the atmosphere gather with them a small force of
electricity. When they have risen to a high altiCude, they meet the cool air, and are transticles of water collect, the volume is reduced, always resides on the surface of objects. This Continues until they have gathered force enough
to be attracted by the negative charge in the earth, which is always stronger than the positive
of the atmosuher. lightning. This relieves the drops of much of
the clectricity they have collected, and they immediately rush together, gainected, and they im
to folume enough
to fall as rain, which can be noticed as large Arops directly after a flash. In case the drops
fall before a flash, it is on account of a lack of electricity in the air, and the drops have gained
volume enough to fall before $a$ sufficient charge has wathered to equalize with the earth.
The connection between the earth takes place by the nearest connecting point, which is usually a tree barn or some object projecting
high into the air, and forming a conduntor is near, it may strive in travel. If no object the forces have power enough to equalize. The return stroke which "Observer" speaks con account of a heary charge in the air drawing from the earth a similar stroke to the one fter the ented it, and one usually occurs directly planted around the buildings. the lightning is hindered from striking on account of one of the ? pectiliarities of electricity to gather stronger at
$\qquad$ her of points. Which thees aid by the large, and on nome of wing. is a sufficient charge to attract the lightning. A tree standing in the opening has a other trees being near, and in this way it is more
AT "The Farmer's Advocate" the articles in




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$\qquad$ sees in rest and to go over the ground twice, lest 2h occurred in arint ic a rule. is


The numbers that go together are: 1 and 18 :7 and $11 ; 8$ and $15 ; 9$ and $14 ; 10$ and 19 . in some localities, twenty-four share rings are hee cannot handle a whole share, and so arrange
with a neighbor to go halves. With a 16 -share with a neighbor to go halves. With a 16 -share ring. and animals up to three years, and an aver-
age dressed weight of about 400 pounds, one age dressed weight of about 400 pounds, one It can be seen, therefore, that the number of
shares will have to be governed by conditions and that the chart will have to be made out accordingly. A competent butcher will find little each

## Another Lightning Theory

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II

THE FARMER'S ADVOCATE



Follow up Process in Cow-testing.


Experiments with Pasteurized Whey
Interesting conclusions were reached by W. W
Waddell, who carried on "e series of cxperiments
at antario Agricutural cooltege wast winter, woth
the object of finding out what temperatures would the object of finding out what temperatures would
be the most suitable for the pasteurization of ments were not extensive enough to warrant delinite conclusions being drawn in regard to whey
pasteurization for the entire season. The work was done during lebruary and March, the whey
used being; from small amounts of milk, and the amount of whey pasteurized for cach experiment was therefore limited. He does, however, exwhes, under laboratory conditions. masteurization of whey for the whole season. it
would be essential to conduct experiments during the whole cheesemahing season, so that deduc-
tions could be made from the various conditions tions could be made from the various conditions
which are only known to manufacturers in hanwhing large quantities of milk. The following de ductions are, however, worth studying :

1. That pasteurization of whes is (a) The fat is held in suspension: (b) a gentl
agitation makes the mass uniform; (c) whe

narked germ life sha wen in 1 (he orer $1-100$ dilution: (d) in 100 pounds of whes ther

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$\qquad$
$\qquad$
heating to 156 degrees, and allowing to cool,cost to feed $\$ 54.48$, thus showing a net profit ofHe introduction of hand or power cream separa-
tors on the farm, can be summed ap as follows:
I doubt if farm, separators have inflienced theI doubt if farm separators have influenced thehatirectly, they have doubtless aused a lowerprice to be accepted for the output of creameries,
chiefly for two reasons: First hecause the creamerymen have accepted, and continue to accepterymen have accepted, and continue to accept
ream (raw material) which no amount of skillcan maniufacture into a first-class finished product(butter). In the second place, the farmers havesupplied, as a rule, just as poor a quality ofcream as the creamerymen will aceept. (I amsomewhat in doubt which of these should beplaced first. It is not easy to say which is causeand which is effect, but I have placed the onus onand which is effiect, but have placed the onus on
the creameryman, as he has the power to causethe necessary improvement.) the power to causeIt is ditficult to say which has had the greater
influence on prices received for creainery butter-influence on prices received for creanery butter-he manufacture of butter in the farm dairy, or the sending of the cream to the creameries. As
"dairy " butter is usually in a class by itself, and scarcely, comes into competition with finest "creamery," except in special cases, if there is
any difference in effect. I should judge that the sending of cream to the creameries has been the more poten
 ter in creameries from whole milk, as compared
with making butter from cream collected in the with making butter from cream collected in the
ordinary way, there is no doubt about which is the better in its effect on the quality of butter made. As proof of this, we may cite the case of lenmark, where the butter is made in creameries almost exclusively from whole milk, and where
they found that the gathering of cream had such a detrimental effect on the quality of their butter that in the few cases where they tried it, they dropped it " quick." And we may further cite
the experience of every country which has changed from whole-milk to cream-gathering-e. g., Australia, the United states, and Canada. In Avery case it has meant a marked deterioration in the
quality of the butter. We may also call attention to the fact that, at the National Exhibition of Canada, the best prizes for butter have been, for the most part, a wardel to Quebec creameries,
where, I understand, the whole-milk system is fol lowed.
Where the population is small, and roads are Where the population is small, and roads are
not good, creamerymen have been obliged to adopt the cream-gathering system, in order to
reduce expenses, but we have yet to learn how to make a fine quality of butter under this system. Finest " butter is possible, but not probableFrom the foregoing, it will be observed that cour judgment is that hand separators have been indirectly a cause of depreciating prices for creamery butter, and, in the " language of the street,"
it is "up to us "to suggest " remedy, or remedies. We offer the following:

1. The cream nught to be collected from the intm at leest three times per week-daily, if pos-
ciblo. To do this, we need better roads and cheaper motive power than the horse. The intro-
duction of gasoline or electric power for hauling ream is a step in the direction of reducing the
ost of collecting cream. Why should these cheap methods of moving loads be monopolized by the inlle rich? There is need of some exact experiments
"hloner this line to find out the leest was to utilize this cheap, pow ir for collecting the raw material anchines could cours 5, to too miles in a day. hauling in two. and the getting of a fine quality
 ill creamery Mossible that

THE FARMER'S ADVOCATE
make an honest effort to deliver sweet cream the drivers. This can be done by keeping the
separator and everything that comes in contact separator and everything that and cream clean. The separator should be regulated to produce a cream testing 30 to
35 per cent. fat, and the cream should be cooled 35 per cent. fat, and the creamelow, which means a large supply of cold water, or water and ice. There are other suggestions which might b
made to remedy matters, such as pasteurization on made to remedy maters, sucers, etc., but, in our judgment, these two-more frequent collecting the cream, and having the cream deliver
sweet condition-are the two main point
as high quality as he should, and might, do. Th trouble seems, to us, to lie in two directions indifierence, and because it does not pay.
creamerymen devise some practicable plan creamerymen devise some practicabe cream,
ward labor and skill in caring for
look for a marked improvement, but not befor
that time. Creamery patrons (men and women remember how reward was an importan remember how reward was an important act of us have not gone very far from those happy days. We Will mankind ever reach th cause or age? O. A. C., Guelph $\qquad$
How to Improve Gathered-cream Butter.
Editor " The Farmer's Advocate" :
Butter made from gathered cream should equal in quality that made from whole milk. That it does not, under average creameries, is not a suf-
ficient reason for assuming that it could not. Where patrons and butternakers co-operate in caring for the cream, each doing his work properly, the product from
that from whole milk
Poor conditions have their effect, more or less
as to contact, on the good. The price of the as to contact, on the good. The price of the
best cream-gathered butter suffers because of the
inferior inferior quality of the product of the average
cream-gathering creamery. of course, in the lo-
cal markets, a class of butter called. is separator cal markets, a class of butter called " separator
dairy "" comes in competition with creamery, due
to the introduction of cream separators and the to the intro of a number of commission merchants, with their offers of a premium over ordinary dairy, thus affecting the price to some extent. The main cause, is its reputation, a reputation sustained by the quality of the average output. Indirectly, farm separators may be responsible for the inferior product and the consequent lower
price. But most directly, the onus should rest price. a number of separator agents, a number of careless buttermakers, and a large number of negligent patrons; the separator agent by inquired cleaning but once a day, or two or three times a week, also in advocating skimming a thin cream, not over 20 per centing to blame in accepting inferior cream. and in not availing himself of the best methods of handling the cream at the creamery; the patrons' share in the responsibility is in sending a thin, sour cream, and in a the average per cent. of fat in gath ered cream of Western Ontario last ycar was 242
per cent. (Chief Instructor Hern's report in "The Farmer's Advocate" of January 28th. gathered butter equal to the best and cream, and pasteurize all cream accepted. The patron must
separate a rich cream, testing 30 per cent. fat And upwards. The separator, utensils and sur-
foundings must be kept clean all the time. re membering that in the dain
needs t

nd manufact


Support Well-managed Creamepies.
place. Speed must be retained even and high to throw a rich cream, if the cream screw lack that effect. Standard separators only should be Cream separated with ice always was cool and nice. Therefore, after separating cream, it should be treated in the same way, chilled down
with ice or water before being put in the cream nail, and then kept in a cool place until called for be the cream wagon. Sending the cream to the creamery has had
the influence of raising the price of home dairy butter. as creamery butter is mostly exported
Therefore, every farmer should help io support any creamery that is under good management.
Gathered-creameries can manufacture. and maki rofits. where the separator factory would fail.
Peel (co Ont.

## Length of Cow Stalls.

Fditor " The Farmer's Advorate as givell in answey
Your length of platform, as would not answer for our cows. The back part of our platform is five feet, and the end hy the
door is 4 ft 10 inches, from stanchion to gutter. and our cows are just good-sized Holstein grades on them all winter in a pint measure, if they were
not cleaned until snring. Would say to R. N. co make front side of his gutter 8 inches, and the back part erater being two inches lower than the pint form. Also make the eutter 14 inches wide. Th bottom of manger should be 3 inches higher than
where the cows stand, then there will not he ant stretching or getting on their knees to clean out
$\qquad$

## GARDEN ORCHARD

Radishes in Succession.
cond-sized gardan. Radishes and early onions
$\qquad$
$\qquad$
$\qquad$ Radishes soon grow the strong and pithy.
and are not fit to use on the table. To be good.
they minct be planted in then
$\qquad$
$\qquad$
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$\qquad$

Fighting Root Maggots.
$\qquad$
$\qquad$ wher crops frequently are destrosed. The eggs
wom which this macgot develops are laid by flies
luss than half the size of the common house fls.
$\qquad$
$\qquad$
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$\qquad$
he Chalk's Jewel, as they ripen early and eventy are firm and smooth. and will bear until the frost
omes. For our tomato crop, we like a soil is easily worked and well drained, which has ear in a good state of cultivation the previous now under. then, in sprine. we work ground to a nice, mellow condition, and plant out about We do not plant on the same ground more han $t$ wice in succession, as they are liable to
$\qquad$
$\qquad$ These plants are furnished at three cents each.
In planting, we run furrows about civ In planting, we run furrows ahout six feet
apart, and place the plants four feet apart in tine rows, so thee can be cultivated both ways. Then
$\qquad$ thome. The florist starts the seed for 50 cents hem the last of March, and planted in regular Mant Mav 1 st to 4 inches apart each wav and Cucumbers, Melons and Squash. Among the garden crops that cannot sately be melons, pumpkins, and squash. As a rule, the seeds are not put in the ground before the middle
of May, and fair crops have resulted from June nlantings. In order to catch the early market, some gardeners start plants in pots, or on sods in greenhouse or hotbed, and have stout, strong
plants ready for setting in the open as early as olants ready for seting in the open as early as
possible. A very slight frost injures the plants. cultural methods with ail of these crops are
much the same. A rich, mellow, sandy loam is much the same. A rich, mellow, sandy loam is
desirable. If the soil has not been well manured, t is good practice to incorporate some thoroughare to become established. Slace where the plants put in two or three forkfuls of manure, cover
this with three or four inches of mellow garden
coil and place the seds covering them about one inch.
The distance apart will be regulated by the usually are satisfactory at a distance of six feet apart. Musk melons can be sown four to six pet apart, and watermelons or citrons six to
pight feet. Bush squash do not need to be more than four feet apart, while the sorts with running vines require at least eight feet. Six or
cight seeds are placed in a hill. but no more than is demanded throughout the early summer. When the vines begin to run lone, the ends whould the are four to six feet runners, so as to induce the development of

Arsenite of Lime for Spraying.
$\qquad$
$\qquad$
$\qquad$ to a very considerable toss, through injury to the tial points in the process should be explained and "mphasized.
The first step in the process is the preparation The first stop in the worsens is the preparation hite arsenic and wishing soda (carbonate of recommonded are, White atsenie. 1 pound; wash minuters boilinemusually werfices gallon. A fow dissolve the arsenite of soda. This resumot bie used as and
$\qquad$

Ing visible the degree of thoroughnose with which the spray has been
2. With Bordeaux Mixture. - This is the more
2. common method, insecticide in the one spray. Bordeaux mixture, made according to the formula
Bsed so successfully for so many years, viz., used so successfully for so many years, bize,
$4: 4: 40$ (four pounds lime, four pounds blue4: 4: 40 (four and forty gallons water), contains a suf-
stone, and excess of lime to allow the addition of one
fcient excel of fint of arsenite-of-soda solution to a barrel of 40 gallons. Alt that is necessary is requisite quantity of arsente stirring meanwhile We have now Bordeaux mixture containing as
much arsenic as the "poisoned Bordeaux mixmuch arsenic as the "poisoned Bordeaux mix-
ture, in which 4 ounces of Paris green per barrel has been used.
In conclusion, may I further emphasize the necessity of clearly distinguishing between arsenite of soda and arsenate of sodation of arsenite of
that is used in the preparatione necessary for making the arsenate-of-lead spray. Failure to recognize that there are arsenates-
classes of compounds-arsenites and arsent classes of compounds-arsenits
each with its own characteristics, has frequenly
resulted in loss and disappointment. FRANK T. SIIUTT,
Chemist. Iominion Fexp. Farms.

Fruit Experimentation. It has been represented to us that the head
ing, "Is Ontario too Poor to Fxperiment in
Fruits?" (in " The larmer's Advocate" of April
,2nd pare 673 ), is liable to give a wrong im22 nd, page 673), is the fact that, as set forth on
pression, in view of the page 675, the Provincial Government is further
extending the work of fruit experimentation at the Experimental Fruit Farm, $\$ 13,050$ being provided for maintenance of the fruit farm and frut ex
periment stations, and 13,030 for completing the periment stations, anc it will be seen that, dur-
equipment, from which
ing 1908 and 1909, a much larger sum than ever ing 1908 and 1909, a much larger sum than ever
before will have been spent in experimenting in fruits. For over ten years the Department of
Agriculture has carried on experimental fruit work through the experiment stations, and, as the re-
sult of that work. issued a report entitled, sult of that work, issued a report entitled,
"Fruits of Ontario," as a reliable guide to fruit"Fruits of Ontario," as a reliable gude carefully
growers. Now, with a view to more cond improved
testing new varieties, and of developing varicties, it is getting in shape to carry on ex-
tensive work at the Horticultural Experiment tensive work at the in Lincoln County, The article referred to dealt with the work of
the Experimental Union, to which the Government rakes a grant of $\$ 2,750$. The offcers disposal
Inion decided that the money at their din Union decided that the money at their disposa vantage through school-garden encouragement seedlings. The ofler made a few years ago to distribute samples of fruits to anyone applying
who would undertake to make a report, brought in an immense list of applicants to the Union and the question was at once brought home to
the Department as to whether it was advisable to the foparunds to extend the work along that line
ask for fund
or whether the funds might more profitably be or whether the funds might more profitably be
expended along the line of fruit stations and fruit iarm. The question is, therefore, whether the
money available should be used for extending th distribution through the Experimental lines tha
developing the work along the other line the Jepartment is following. With unlimite
funds to draw upon, it could develop hoth lines funds to draw upon, it could dwerop Advocate' has simply to reply that it has no fault what
ever to find with the lines of work decided upon, portunity to set forth thus concisely just whi line
Department of Agriculcure is doing in this line
At the same time, we are of opinion that the dis At the same time, we are of opanion experiment is
tribution of fruits for cooperative extance that no
of such great and decided importan the Government of a rich Province like this its discontinuance.
deliberately chosen 1o arrest attention, and we
hope the point may not be lost upon the Pro
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## Thorough Spraylng.

Progressive apple-growers in most localities
will now have given the irst application of spraying mixtures, unless a close examination and past experience revealed the fact that it was not necessary. None can afford to neglect a thor
ough use of poisoned Bordeaux mixture just be iore the blossoms open, and another upplication as soon as the blossoms fall. Follow the spray calendar given in our issue of April 1st, if you would be sure of clean fruit of high quality. In a few instances, experience may have developed
treatment for some of the applicrtions that is just as effective as those recommended, but the

## POULTRY.

## Elevated Hatching Coops

## Uditor the Farn I reportel to " The Farm

 a trial of individual hatching coons, which, for lack of room elsewhere, I suspended to the stable ceiling, or at top of wall near windows, so Biddy would have plenty of light and air, without drafts or disturbance. These coops were just light, rough packing hoxes, about $36 \times 24 \times 16$ inches, cheaply made. with slatted sides, and nest boxes In corner, about $12 \times 10 \times 6$ inches. I gave the hons fresh water, grit and food daily in the coops, yriters have suggested-just fresh, dry, chaffy straw. On March 30th the chicks began coming out, and up) to this time (April 26th) I have had six hatches of smart, healthy hirds, averaging nine to each setting of a dozen eggs. About a day after hatching they are moved to outside coops on the ground. Fresh straw is put in the hatch-

yard, you have something worth looking at, and Who ever saw a finer sight than a large flock of Sarred Rocks or White Wyandottes
Although one may not have pure-bred fowl, he ught to take good care of what he has, and when hents pure-oreas, he ur mon the henhouse. Take all movable things out, thoroughly lean, then whitewash retting the lime well into he cracks. use coal oil on the roosts freely, this being the best and cheapest louse-killer. Look wer the flock, and see if any have scaly legs ; if their coal oil again-better put a little on all Always as the infection soon spreads. Always try to make it a point to hatch early Keep them they should be all of tet Apriin and May setbacks. so they will lay when eggs are a good price next fall and winter, then they will want to price early another spring. This is what the farm-

> Feed for Chickens.

Never feed chickens until they are thirty-six hours old. More chickens die from feeding too be grit or sand; then feed them hard-boiled egg, with breadcrumbs crumbled together, or bever feed sloppy food. Baked corn meal, rolled oats and crackled wheat are the best feed. Feed often, and they will grow ight along.
Discontinue the whole-corn ration almost en tirely now; feed cut clover regularly, and be
sure the hens have plenty of ground bone and shells. I feed a pint of wheat to eight hens in the morning, a pint of barley at night, using litter, to make them scratch. I also use hoppers in each pen, made to hold about half a bushel. Any handy farmer or farmer's son can easily make one from a small square box, obtained at any hake lid for top, fasten on with
hinges; split a piece
out of side of box hinges, sple of bide of box
out
about two inches about two inches
wide, on the bottom board; take a piece of board, nail lath on one side and two ends, and fasten under hole on side
of box. Now you
have your hopper have your hopper,
made; nail to the made ; nail to the
wall of your hen-
house, about ten house, about ten
inches from
foer.
In this keep bran, chop or shorts,
with a few meat scraps mixed in, and I also mix Herbageum in my hopper feed Kree from the bice,or they will not do well;
dust them often
A Pleasant Evening's Chore dust them often
with insect powder. or a drinking fountain, take a one-gallon syrup pail, and cut bottom off about comed notch at the open end, fill with water, put the bottom of syrup open ever top, and turn upside down. Now you have a self-regulated drinking-can that the chicks leaned, and cleanliness is one of the most imporcleaned, and cleantiness is one of
Just to show what can be done with a few hens, when properly cared for, I will give the
following record of seven pure-bred Barred Rock
pullets, hatched the first of August, 1908. Every poultryman knows how late this is for chickens. They started to lay on the 29th of January, but laid only three eggs that month, but in February
they laid fi2; March, 120, and, if they continue to they laid 62; March, 120 , and, in they as they have
do as well for the rest of the month so far (up to April 26 th), they will lay 160 in
One was set March 25th, so that only left April. One was set March 25 th, so that only eeft
in pretty good for such late-hatched pullets. The eight set hrought out 11 chicks, and 1 have set in incubator, and sold $\$ 5.60$ worth.
BURTO (Note.-This is a good letter, and a good egg Note. - This is a good letter, and a good egg
record. The reasons advanced for keping purerecord fowl are also good, except that, in his real,
hred
nur friend has greatly exaggerated the claim as pur friend has greatly exaggerated the claim as to erg production. birds of mixed breeding lay
them by and all,
fullv as well, if not better, than pure-breds. Of fully as well, if not better, than pure-breds. Of course, some flocks of mongrels lay a great deal penter than others. The advice to tare
$\qquad$
$\qquad$ with their plump, juicy breasts, will mot use any

A Good Egg Record.


## THE FARM BULLETIN

 Would Bonuses Have Paid? ditor "The Farmer's Advocate" :Again we are at the end of another mild win Again we are at the end of another mild win in the zone between continuous snow and frost on the one side, and no snow and little frost on th weather in the winter season. This makes it very difficult to plan work or speculate on what
the crops and live stock mas be like in the the crops and live stock may be like in the
spring. Usually, a mild winter, while good for spring. Usually, a mild winter, but this one seems to have been a fortunate ception. Winter wheat, so far, is looking excep-
tionally promising, and grass and clover is seldom better. A feature oi the live-stoch trade is tha rs are almost a curiosity, and, judging from th way the trade in calves for veal and hides is de veloping, native cattle of any kind will be almost
as scarce as horses. The poultry industry is de as scarce as horses. The poultry industry is de
veloping rapidly; so much so that some enterveloping rapidly; so much so that some enter-
prising farmers, with incubators, in order to supply the demand, have undertaken to supply newlyhatched chicks at 5 cents each; but, from the
writer's observation, it is more difficult to rear writer's observation, it is more difficult to rear
incubator-hatched chicks than to hatch them. incubator-hatched chicks than to hatch them.
They seem to lack the vitality of those cared for by the old Biddy
We expect seeding to be in full swing in a
few days. Sugarmaking seems to be over, and the cheese season has again commenced. Dairying is the stand-by around here, and cheese takes
the lead in summer, though about one-quarter the amount is made into butter in winter, and shipped (mostly)
aong with the ". hen fruit." The distance is beginning to complain at the loss of this trade. In summer, the country storekeepers gather the eggs direct themselves, exchanging for groceries,
so that, between the city and the country, the town merchants are losing ground. But this only another example of the modern tendency
divide into city and countr divide into city and country, mostly the former
leaving the smaller places to struggle along as best they can. And in this connection, might it not be wise for the Legislature to relicve the town of some of the burden of road-building? If
public money is to be used for this purpose, let the permanent roads be extended from the town outwards, or else compel the town to maintain a good roads within the limits of the corporatio as there are in the surrounding townships. st
Trary's made a supreme effort 10 construct good
foads with broken stone and roads with broken stone and a steum roller, and succeeded admirably, while the money lasted, hut
taxes, getting too high, some of the leading roads taxes, getting too high, some of the lrading roads
to the town are left in a deplorable condition, much worse than the township's; while the tow in desperation, has taken to loaning mones
corporations like the corporations like the (. P. R., and various many
facturing industries, which, though it injures th town's credit temporarily, may, we hope, benefit through mud to get into the town till those goo the writer's native township, have again show
the wrir gool sense. by reiecting a aid treasury by what is commonly supposed to b
the (: P . R., acting through a stran ,om pany of local men, that wanted a straight gift of
S20), oc: as a slight achnowledgment of the hon or and benefit of having a thanch of the great (:
1.) H. through part of the township. (in on former company, and subsequent ments has" proved it
wise in doing so. for if it producenl the cement from marl, it would probably haw. iailed, and ante in st, Mars $s$, which "ill is onefir the town these industries will come ink Roord time." "ithom
 bitter experience with the bige cramery and the.

Ancient History

## Iearance Varms "Iinnipeg <br> Vinnipeg

## To Our Club-raisers

There are thousands of farmers who do not know what they are losing every year through not being subscribers to "The Farmer's Advocate and Home Magazine." Therefore, we want all readers of "The Farmer's Advocate " to act as club-raisers this year, and send us large lists of NEW SUBSCRIBERS.

If you send us two new names and $\$ 3.00$ to cover same (each new subscriber paying \$1.50), we will mark date on your paper forward one year as remuneration to you; or, for each single NEW NAME, accompanied by $\$ 1.50$, we will advance the date of your address label six months. Cash commissions or promiums, as preferred, for larger lists of new names.
in clubs of FOUR RENEWALS OR OVER, wo will accept $\$ 1.25$ each

Premiums not included in club offers.
Start raising your club immediately. Got The Farmer's Advocate and Rome Magazine into every household in your locality

## Protection is Expensive

$$
\begin{aligned}
& \text { I have read with much interest the articles } \\
& \text { which have appeared in your alued iournal. } \\
& \text { relating to protection, and believe that, so } \\
& \text { fare, the anti-protectionists have had much the }
\end{aligned}
$$



point undeniably t the wisdom of The fact is thal
there is no fairly constant proportion bet ween the labor ${ }^{2}$ winer expends and
his return therefor The business is a' fine man may work hard and get nothloes litle, and
raps an enormous cturn. an enormous $\begin{array}{cc}\text { re royalty } & \text { does } \\ \text { wothing more }\end{array}$ wen up matters a ittle, and makes
the successful miner help his less-success
ul fellow workmen urance, whereby hose who lose are partly recouped by
those who gain rship, of the mines, ompatible with jus-
ing with other modustrime Just kio Camadian
 trom the consesterl
 mlls imerasel. send all!

 muntin


THE FARMER'S ADVOCATE

## Incorporated 1885 the TRAIIERS BAIIK OFCNIDA

Capltal and Surplus, \$ 6,350,000 Total Assets,<br>Our 85 branches, and other extensive connections, enable us to offer a special<br>Collections promptly made Negotiable paper discounted. Exchange bought and sold. Money transmitted by Draft, Money Order or Telegraph Transfer.<br>\section*{THE BANK FOR THE PEOPLE.}

74 Branches in Ontario. The
Manager of the nearest would welcome your account.

## MARKETS.

Toronto.
At West Toronto, on Monday, May 3rd
the receipts were 65 cars the receipts were 65 cars, consisting
1,436 cattle, 79 hogs, 11 sheep,

 prime picked butchers', $\$ 5.25$ to $\$ 5.50$
loads of good, $\$ 5$ to $\$ 5.25$; medium, $\$ 4.6 \mathrm{t}$
to $\$ 4.90 ;$ common, $\$ 4$ to $\$ 150, \$ 8 w$ to $\$ 4.9$; common, $\$ 4$ to $\$ 4.50$; cows
$\$ 3.60$ to $\$ 4.60$; short-keep feeders, $\$ 5$,
$\$ 5.35 ;$ milkers, $\$ 40$ to 860 . $\$ 5.35$; milkers, $\$ 40$ to to $\$ 60$, callers, $\$ 3$ t
$\$ 6$ to
$\$ 6$ per cwt ; sheep, $\$ 4$ to $\$ 5.27$ yearling $\$ 6$ per cwt.; sheep, $\$ 4$ to $\$ 5.27$; yearling
lambs, grain fed, $\$ 7.25$ to $\$ 8$ per cwt.
common. $\$ 5$ to $\$ 6$ per cwt.; spring lambs, $\$ 4$ to $\$ 8$ each; hogs, fed and watered 87.50,
points
REVI

REVIEW OF LAST WELE'S MARKEI
Receipts at the City and Union Stock yards last week were again light, which
is accounted for largely by there bein little or no demand for export catter
there being no space urailable on ocent vessels. There was a total of on ocen 221 cary 629 sheep, 824 calves, 127 horses.
Trade was slow at the conmencement was brisk, at a little higher prices, espre.
cially for the medium Exporters. - Not many were offered, onls
wo or three loads, and the highest pricy
 all of them were hought for butcher
nurposes.
 8. 25) metium, $\$ 4.60$ to $\$ 4.30$; commen
$\$ 4$ to $\$ 1.50 ;$ cows, $\$ 3.50$ to $\$ 1.50$. wality feeders were on sale, , and all gooch with a little tlesh on them, were taker
for butchers purposes. Harry Murby
the largest wholesale donter in stocke nd feeders, statested that he had man prices that farmers were willing to to pay.


OF CANADA

CHARTERED 1875.
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\begin{aligned}
& \text { Millfeed. The market was steady, de- } \\
& \text { mand for bran and shorts being exceed- } \\
& \text { inalv }
\end{aligned}
$$

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\begin{aligned}
& \text { ingly active, at } \$ 22 \text { to } \$ 23 \text { per ton for } \\
& \text { Mannitoba bran, in ligs, and } \$ 1 \text { more for } \\
& \text { Ontarios bres }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Ontarios. Shorts. either Manitobas or } \\
& \text { Ontarios, } \$ 24 \text { to } \$ 2.5 \text { Cotonseed and } \\
& \text { oil cake were, nominally, quoted at } \$ 32.50
\end{aligned}
$$

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\begin{aligned}
& \text {,il cake were, nominally, quoted at } \$ 32.50 \\
& \text { to } \$ 3 . \text { per ton. } \\
& \text { Seeds. -Dealers reported a very active }
\end{aligned}
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\begin{aligned}
& \text { demand for seds of all kinds. Quebec } \\
& \text { farmers were unusually late this year in }
\end{aligned}
$$

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\begin{aligned}
& \text { sending in their last season's crop of } \\
& \text { seed, lut dealers think has now all } \\
& \text { been received. Neantime. they have ex- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { hy. bag lots, Montreal. } \\
& \text { Hides.-The market showed no change. } \\
& \text { Hay.-The market was unchanged at the }
\end{aligned}
$$

Cheese Board Prices.

Chicago.

Buffalo.


A perfect day whereon it is enough for me
 statesmen are behind the movement,
As a result, she is introducing with
Amazing rapidity Western telegraph,
telephone, postal and military systhe Village of Wellington, where the
Citizens' 1,
Colgue have applied for a (iovernment charter for the "W Wel-
lington Ilotel Co., Iimited," and have purchased the Hotel Wellman property, valued at about $\$ 15,000$.
The hotel, which will be known as
The, the " Hotel Alexandra,", will be
renovated and re-furnished, and will
be run on strictly temperance lines.


Pleasure in Labor
 pleasure constitutes the wetter hall


pieasures of lifo.
namunl, as well as mentalt was wody yne soul, as at turnem.


 mong the harrest worters, whit even the idly rich feel that they mus
do soncethint, tremuous. They mus. Eo mountainectimblings, or have some


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$\qquad$
$\qquad$



## Hope's Quiet Hour



 benetrated Cranaide, annd though an yet comparatively little heard
their influence may be detected the gradual spread of arts-and-crafts houses, hand-made furniture and
homespuns. For several years, too, technical
institutes have been in existencethe Pratt Institute, of New York,
and Armour Institute, of Chicago, are familiar examples-and gradually the idea of technical education has
spread, until it has taken form in the introduction of manual training and domestic science into every
school of recognized position in the
educational world. Closely follow educational world. Closely follow ing has come the movement fo agricultural principles - a ventur
which promises to be the most popu lar of all, because, perhaps, the
most pleasant and most interesting most pleasant and most ave a tremen dous infuence in setting forth the dignity of labor. While, to some degire of healthy man for useful ac
tivity, such inovements also lead tivity, such movements also lead
Little by little they will demonstrat the "pleasure" of actual work
Then will the line between white hands and work-hardened hands merely because of that distinction,
fade gradually away. The mental fade gradually away. The mental
worker will be a manual worker also, and the manual worker will
realize that he must be a mental
This is the idea which Tolstoi ha so long, and with such infinite plead-
ing, advocated. "If the question had been put thus after I had re so ruined a man, to do?' the an
swer would have been easy : Firs
of all, I must try to get my living honestly-that is, learn not to live
upon the shoulders of others; and, learned it, to try on every occasion to be of use to men with my hands
and with my feet, as well as with my brain and my heart, and with all
of me that is wanted by men." much, perhaps, in his own day, a

## Current Events.

## Youp Father Knoweth



Here is part of a letter 1 received from
.An Anxious Mother") a short time agy I used to enjoy Christ's l'resence every
moment in my youthful days, but cares distract and doubt enters, and things do
not seem to be what they used to Heaven used and a real place. Now one
state, another something else
$\qquad$ er's Advocate,"" some time in the future
as it is too much to nsk you to write as it is too much to ask you to write
private letters-what you think of Heaven if we will know each other and remember Mhat relation oach ono was to us in this
Whe? II your prayers tor ond who nedat the

 Io teel noequal to the task, though I used crowning point to see them grow up pure
and good. But on! II contrary, tho rat norse, for 1 w would ylame mysali. atier churey want or tory on stany sumay dhink tot ithe to thow culuriten with any their slophst on whit ou wound you some
 "Anxious Mothor" alto nks my opinion




 vero thenten by of trayer. 1 pratel or Aladin -it would bo a terrbily dant ghiliren it everything wo usteel tor wern Instantly put into our hands. That to
$\qquad$
$\qquad$ with "Thou Shalt Not": Nu. it is
guarded far more securely by an invisible guarded far more securely by an minisible
law of love. Children are naturally re-
ligious; and, if Sunday is the day when law of love. if sunday is the day when
ligious; and,
the near presence of the invisible king is i the near presence of the invisible King is
particularly impressed upon them, they
will soon love to hear about Hio, particularly impressed upon them, they
will soon love to hear about Himu and
speak to Him as a great privilege. The

 to drive young people into rethellious ap-
position. God loves to see the children position. God loves to see the children
happy, I am very certain of that, but
they are never so happy as when they are they are never so happy as when they are
hearing about Him and trying to serve
Him in little wayc Him in little ways which are within their
reach. Leading is better than driving. reach. Leading is better than driving,
principles are far more satisfactory than
iron rules. Impress on their susceptible iron rules. Impress on their susceptible
subuconscious minds the reality of Christ's prosence, and the glad truth that Sunday
is the day when His people are especially 1s the day when H1s people are especially
allowed to meet Him in His Own House, and I don't think a Ittle innocent play,
will hide Him from their clear eyes will hide Him from their clear eyes. If
His Face is not very vtible to yoursalf, ask Him trustfully to reveal Himself more others to Him. The surest way of being
certain of Him yourself is to do your certain of Him yourself is to do your
best for the spiritual growth of your fel. lows. No disciple can keep his spiritual vision keen if his relition is selfish. We We
must "give out" or we shall soon cease
mot more and more of God's Spirit "take in" shall find that our efforts for other peo-
ple are useless and we cannot give them any spiritual help. Wrayer and service go together. Prayers which never blos
som out into
service will soon brow Tormal and lifeless. Service, which does
not draw its very life and breath God, is like a perfectly car without any live wire to supply in-
visible power ing up children to to the task of bring Of course you do! If the wisdom of all
mankind were concen to make one seed spring up and bear
lowers and font can plant the seed-any child fan can Man mationtly he must stand aside and walt patiently while God does the rest. I
we are so helpless in the phy is not strange that physical world bear fruit. spiritual seeds spring up an
But is just why we can
plant the seds cest. We are fellow-workers with A in the seeds, looking to Him for increase sult we be faint-hearted because the ry mediately visible ? sowing is not in distrust soul-gardening, and not show ing to see whether the seeds we have tried to plant under His direction have hearts which are hidden from us. The bustuess of training souls is really His-
though He has allowed us to have some smal! share in it-and surely He knows Uanxions womld say, give up being an dren in their lather's hands. He knows What things they and you have need of.
Ask Him simply for wisdom to do your Mart, and never be anxious for fear He may fail to do His-that part which is
so far beyond your power. Your Father knows what is needed, is not that as
cirance enouch. If the always glad to know something


 Or penitence is a proof that the Vicice



## THE FARMER'S ADVOCATE








 ste plainly and simply what to do, if we
us
(especially when young) seek first the
Kingdom of Heaven, then our trade or
occupation of life will be better chosen, occupation of life will be better chosen,
and the right path in life taken.
sornetimes think of the title of this page
sor and wonder how many have a Quiet
Hour,", just a few souls gathered to-
gether in quietness, with minds and hearts empty of all worldly things, and waiting
patiently for communion with Christ, for
has He not promised us "that where two Or three are gathered in My Name, I will
be in their midst."
Is not this promise alone enougk and ye shall receive, knock
weary, "Ask and
and it shall be opened unto you, selk and
ye shall find." ye shall find.". There are no "ifs" or
"mays" or "perhaps,"
for the apostle
faid Christ cannot lie.
But, before we said Christ cannot lie. But, before we
can become a saint, disciple, or friend, We must give up all and follow and obey
our Lord. What must we give up ?
verything and everybody that will hinder verything and everybody that will hinder
us from obeying His Holy Will, for when Nur Lord commanded a man to follow
Him, the man replied, "Lee me go bury my father," but Christ, knowing all men's
hearts, replied : "Let the dead bury
their dead." Christ is our pattern, He came on earth and took uapon Himself
the form of man, showing us by His life what was possible for all men, and fur-
her, He said. "Be ye perfect even as
 through Him only, can we reach the
Father. Christ is not a hard Master,
for whatever He asks us to forsake or (ive whatever that will be a stumbling-block to Mur spiritual growth, you may be sure
He will kive in return much more than
"e gave Him. The Christian traveller, whose ey. is turned towards Calvary, will
have many stritual and carnal battles to
encomter, but if he steps carefully an a encounter, but if he stels carertiry and
slowly, with his eye always on his true
l.eader. he will reach his journey's end
requicing. And. in conclusion, I should regoicing. And, in conclusion, I should
like to draw the reader attention and
Solemn consideration to what our Lord
and saviour Jesus Christ, when person-



The Ingle Nook.

|  | It is very inflammable, and must be used severely burned last week through an explosion caused by carclessness in handling it. $\qquad$ <br> Message from Lankshire Lass. <br> Dear Dame Durden,-Lankshire Lass has requested me to send you a ill for two weeks, and has not been able to give the recipe asked for, for maple syrup, in last week's "Advocate," but she shall as soon as possible. <br> She does get so ill, and suffers so much, and always so patiently. I love her very much, and feal so very sorry she cannot be well like the rest of us. Trusting last week's Inquirer will not mind the delay, I remain, yours truly. B. H. <br> I am sure I may speak for all of the Chatterers in sending a message of sympathy to Lankshire Lass. She has been a lesson in patience, indeed, to many of us. |
| :---: | :---: |

## Our Serap Bag



## 768

Made in Ireland.
The following, from T. P.'s Weekly is interesting and suggestive. Why not also a "Made in Canada " trade factures of certain quality, thus pass home and abroad

It is now nearly three year: fince an experiment was made, quite anike anything that had previously been done, sare, perhaps, the hall mark on silver and gold. No country has ever possessed a trade-mark ap-
plicable to all its products, until reland took prompt advantage he Trade Marks Act of
register a national impress. getic group of gentlemen, interested eaded by Mr. John Boland, M banded themselves together
Irish Industrial Development
Irish Industrial Development A.sso-
ciation, and registered a trade-mark more familiar among
" Hundred oi firms have applied or certificates to use the mark, for

mark is a guarante he buyer. $13 y$ inference quality to the foreign nature of the goods not bearing it, and it provides a means
of discovering fradulent pretensions The Association has prosecuted firms in several instances for using the
mark without authority, for falsely
representing epresenting goods 10 be Irish, and roods Irish names likely to mislead buyers. The yearly charge for the use of the mark is quite small,
and its administration is quite simple, although completely effectual By an ingenious use of numbers, mat ters are so arranged that any firm
wrongfully using the mark is dewrongfully
". The mark, as may he seen from conventionalized 1 rish F (for Frin) enclosing the circular (Collar of udge who administered the law an rords Déancaineiminn

## The Farmer's Advocate

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${ }^{623} 5$


The Roundabout Club



Twenty-five years ago it was difficult to sell spring wheat flour for pastry at any price.

People didn't want it-they were using soft, winter wheat flour, and saw no reason for changing.

But hard wheat flour was persistently pushed. The women tried it and succeeded with it,—to-day hard wheat flour is the favorite for Pastry as well as for Bread.

## Ogilvie's Royal Household

is hard wheat flour at its best-milled by modern methods, retaining all of the good of the wheat. It is without an equal for every kind of baking in which flour is used.
Ogilvie Flour Mills CO., Limilted, Montreal.
For Farmers' Use Only-Jones Patent Hay and Grain Elevator

The only sifing outpit on the market that can
OWER its load in the mow. This sLING-OUTPIT
dill unload your whole harvest of Hay and Grain
bound or unbound, such as Hay, short dry Clover, loose Bariey, Peas, sheaves, seed, bound or unboumd, such and has and
Clover and Cornatalks. And the beaty of it is, it places its load in the mow in such nice shape. The sling lond don't have to fall all the way from the track, in
the barn, own the the mow, as with all other Horse-forks or sling-outftatel
the barn, down to the mow, as with all other Horse-forks or sling-outtits.
The JONES PATENT ELEVATOR LOWERS its load from the track right down to the man in the mow- then he can take his fork and swing load to any part of mow and trip
it in this way mow is kept level at all times, saving nearly all the worls of mowing away, it. In this way mow is kept level at all times, saving nearly all the work of mowing away,
besides doing away with old time packing down of hay and grain In centre of mow. besides doing away with old time packing down of hay
The JONES PATENT ELEVATOR has many other new
and important improvements, all of which are explate fill
our FREE cataloge. THR JONES PATEN ALE
malleable iron and stec of double woight and strength. It
is the is the strongest eleva
grain in three lifts.
grain in three lifts.
There are THOUSANDS giving EXCELLEENT SAT There are THOUSANDS giving EXCELLAN PATENT
ISFACTION. We will ship you a JoNES PAT
EIEVATOR ON TIAL After you use it if you ELEEVATOR ON TRIAL. After you use it, if you
are not pleased, ship it back to us and we will cancel

Ere not pleased. Shipit back to us and we whe
your order. This ELEVATOR is sold on EASY
your orter. This ELLEAT
TERMS, and will pay for itself first season.
Drop us a card and we'll enend booklet FRER. The Hamilton Incabator C Co., Led.


DALGETY BROS.,
GLENCOE, ONT.

## THE FARMER'S ADVOCATE



Let This Machina Do Your Washing Free,


The Golden Dog

## Le Chien D'or.

A Canadian Historical Romance
Copyright, 1897, by L. C. Page \& Co. (Inc.)



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$\qquad$ crary conversation. Her bright eyes
looked volumes. Her silvery laug precieuser than the wisdom of a
Her witty repartees cor-
ered acres or deficiencies with so
much grace and tact that men were
$\qquad$
$\qquad$

Old St. Louis Gate, Quebec the interrupted him laughingly: Was a great favorite with Le Brun


## THE GREATEST BARGAIN That Ever Came Your Way


ever offered you, and there is nothing in Canada to compare with it, quality considered. We urge Mail Order customers to take full advantage of this money-saving offer. ORDER vantage of

Your money refunded in full if Suit does not prove satis factory. We take all the risk.

Ladies' Shirt Waist Suiit, $\$ 1.49$
F. A. 5000. Ladies' New Style Shirt Waist Suit, beautifully made of a special uality white lawn. Waist is finished with an mo corresponding tucks down the back; the collar is the new Gibson style, with embroidery to match the front panel; long sleeves with tucks and embroidery to the wrist. The skirt s seven gored, finished with deep pleat on each gore. There are two folds on skirt with wo rows of rich embroidery insertion. Tail red and made to perfection. Can be had in he following regular stock sizes only
Rust.
Waist $32,34,36,38,40,42,44$ inches.
$23,24,25,26,28,28,30$ inches.

Scroggie's Extra Special Price, \$1.49

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Write for our SPRING and SUMMER citalogu To.Day.
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write for nur SPRING and SUMMER
CATAL OCUE $\frac{r_{0}}{\text { roday }}$
undertones that wi
She believed she loved Le Gardeur where a devoted passion could take firm root. Still, she was a woman
keenly alive to admiration-jealous willingly letting one loose from her honds, and with warm passions and
a cold heart was cager for the semhlance of love,
its divine realit
The idea of a union with Le (iarof the whirl of fashion, had been a
leasant fancy of Angelique. She had o fear of losing her power over
im, she held him by the very
eart-strings, ant she zht procrastinate, play false and nadness by ier coquetries, but she bird held by a silken string. S he fire of a passionate love. In her and sport-to wershipe amusement, verything as her due, giving noth-
ng in return. Her love was an
ng mpty shell that never held a kernel
of real womanly care for any Amid the sunshine of her fancied if eclipse for him, of fresh glory for int, Bigot, changed the current of tngelique's ambition. His high
rank, his fabulous wealth, his nections with the court, and his un the secret aspirations of the proud was futled her by being singled out as She already indulged in dreams
Which regarded the latentant himseli \& but a stepping-stone to further ured up scenes of royal splendor
where, introduced the courtly low in her train, and the smiles of Ingelique felt she had power to ac
$\qquad$
$\qquad$ nis. no woman has a better righ hoult tie mine, and " death to angdon
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ fiject of ambition or fance. ".
frojected it, depended
swer to that question
swer to that questio She trembled with a new feeling
Shiver ran through her veins the cold brenth of a spirit of evil had passed over her. A miner, b
ng down into the earth strikes ing down into the earth, strikes a
hidden stone that brings him to a hidaen stone that brings him to a
dead stand. So Angelique struck a dead stand. So Angenque strick he
hard dark though far down in the
depths of her secret soul. Whe drew depths of her secret soul. She drew
it to the Iight. nnd mazed on it "I did not mean that :" cried the startled girl, crossing hersclf. 'Mere
de lieu ity did not conceive a not! I cannot contemplate that!’ che shut her eses, pressing both
hands over them, as if resolved not
 cooked, and would not depart when
bidden. She sprang up, trembling in every limb, and supporting her
sclf agrainst a table, seized a gilded
arafe and a Carafe and poured nut a feized a full goblet
ai wine which she drank. It revived
if whint Wher, and stood ui) herself

## 772 THE FARMER'S ADVOCATE

## Diamond Dyes <br> Are Money Savers

Mamma uses the Diamond Dyes very often, and has intro duced them to her friends, because she thinks they are such grand colors and money-savers. Last week mamma colored a dismallooking old cream serge wool dress which I had worn for two sumlooks like a newly-bought dress. We use Diamond Dyes for many other purposes, and always have satisfaction and splendid results and feel sure I will have good luck in my work. We thank you for the Diamond Dye Annual. It is very interesting.

CLARA L. DEARIN, Windsor, Ont



My Son's Sweater Like New."
The friends of Diamond Dyes have much to tell of renewing children's clothing - of dyeing and making over their own as well, but nothing seems to be said about how they may renew men's clothing. "My son plays golf, and his old sweater was too gray and
faded looking to use another season until I gave it a bath in Diamond Dyes, and now it's just as good as new. He told his young lady friend about it, and she dyed her tan skirt a beautiful brown, and also colored some hose to match. He said she was delighted to learn about Diamond Dye
MRSS. JAMES EASTON, Erie, Ia.

## Important Facts About Goods to be Dyed:

 Diamond Dyes aye the Standard of the World, and always give perfectresults. You must.pe sure that you get the real Diamond Dyes, and the kind of
 dye, claim that their imitations will color Wool, Silk or Cotton (" all fabrics") equally well. This claim is false, because no dye that will give the finest results on Wool, Silk, or other animal fibres. can be used successfully for dyeing Cotton, Linen, or
other vegetable fibres. For this reason we make two kinds of Diamond Dyes, namely: Diamond Dyes for Wool, and Diamond Dyes for Cotton. Diamond Dyes for Wool cannot be used for coloring Cotton, Linen, or other
Mixed Goods, but are especially adapted for Wool, Silk, or other animal fibres, wich Diak dial vegetable fibres, which take up the dye slowly. "Mixed Goods," also known as "Union Goods," are made chiefly of either
Cotton, Linen, or other vegetable fibres. For this reason our Diamond Dyes for

Diamond Dye Annual-Free. Send us rew and adress sure th


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 trom which sla had on the templat to bo bers woll
 thin tie over "wich he stims, care could win what I covict man only


 of the watch for the nifit Present- to his side. -" What is unt Les
Iy the the

 heat ing the tation.

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 "The fault was more mine, a ofird to leap down inte his bosom;


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Geo. Keith \& Sons
24 King St. E., toronto, ont.


THE FARMER'S ADVOCATE

are different from and better than any other chocolate concection Buu ever tasted. Mare not made by any other concern, as the name and design is fully patented. Look for the name on every Bud.
The Cowan Co. Limited,

HERE ARE
Good Machines
NECESSARY AND RELIABLE TO MAKE FARM BUSINESS AGREEABLE AND PROFITABLE

d. The Perfection Seed and Grain dine Perfection Seed and Grain
Separators. What you shoulu have
Sto five to ten bustel per acre extra, . Plant- from tive to ten

 venient power m m crine. Just what
you may need.
th. The Maple Lear Sewlng Machimes.
 Th. The tham sold in your Patent Extens'on buy and sell. Agents wanted. THE T. C. ROGFRS CO'Y Wholeale Agenta. GUELPH, ONT.

er can renucr the expense OF OPERATING YOUR ENGIN

Wo can show you how to get more power
and better satisfaction trum our ensine for es, money,
This information is
OREE.
A. W. PARKS \& SON nd Gasoline Engines, Be semer Gas Engine ii, Milton Magnetos. Dealers in New and . Batteries and Renewals.
Everything for the Ga aoline Engine. PETROLEA, CANADA.

The Best and Cheapest Calf Meal

| Shorts or middlings ...... 300 lbs. <br> Salt $\qquad$ ${ }^{1} \mathrm{lb}$. |
| :---: |
|  |  |
|  |  |
|  |  |

Mix these together thoroughly. Scald
and feed warm.


## 774

THE FARMER'S ADVOCATE

## Throw away the old washboard!

How about that heavy family washing that has to be done each week ? It seems incredible, but there are still some people who continue to use the old back breaking washboard method, which makes common drudges of Mother,



PAQUET
Guaranteed CLOTHES

FROM THE MAKERS
DIRECT TO YOU
wholesale prices

NWhere is an entirely NEW IDEA in Men's Wear, and
one that in of vital importance to every man who cares to
be well dressed e well dressed. The country is Alooded with Men, Clothing of the unsatisfactory sort-Clothing with nothing
ut style to recommend it-Clothing that loses its shape irre hat is partly wool and mostly cotton PAQUET Guaranteed CLOTHES
he sort you have always the sort you have always considered too expensive to be
economical-the sort with QUALITY as well as STYLE to
recommend it-the sort that never loses its shat
is GIAP NDTEED SGUARANTEED to be made from absolutely PURE WOOI measurements, anteranteed CLOTHE very are matest New York Modeno exact
most highly-trained experts. They are sold direct the
at wholesale prices, at wholesale prices, and are GUARANRTEED to be the best
value in Canada to-day at from $\$ 10.00$ to $\$ 13.75$ ber $\$ 1$. o $\$ 18.0$

Write for FREE Style Book, showing samples of the ver latest patterns from the English looms. Don't pat it off until
another time - a post card will do - you'll get the Style Book by another tii
return mai

FOR SALE BY AUCTION The Imported Clydesdale Stallion

 pligs. in fact. everything
equpped fart of 150 acres. a
and arc moving to the city

[^1]Ier night-dream of love was Her fears vanished, her hopes were
all alive, and she began to prepare
for a possible morning call from the for a possible m
('hevalier Bigot. CHAITER XVII.
Splendide Nendax.
Amid the ruins of the once mas
nificent palace of the Intendant, mas
sive fragments of which still rumain nificent palace of the intendant, mas-
sive fragments of which still remain
to attest its former greatness, there to attest its former greatness, there
may still be traced the outline of the room where 13igot walked restlessly
ap and down the morning after the She disturbing let.
Council of War.
ters he had received from France on ters he had received from France on
both public and private aftairs irriboth public and private affairs irri-
tated him, while it set his fertile Urain at work to devise means at
once to satisiy the Marquise de 'ompadour, and to have his own
way still. The walls of his cabinet-now bare,
shattered and roofless with the blasts of six score winters-were hung with
ortraits of ladies and statesmen of the day, conspicuous among which was a fine picture from the pencil of
Vanloo, of the handsome, voluptuous Marquise de Pompadour. brated dame, who ruled France in
the name of Louis XV., made some the name of Louls $\begin{aligned} & \text { amends., made by her persistent good } \\ & \text { some } \\ & \text { na- } \\ & \text { ture and her love for art. }\end{aligned}$ The painter, the architect, the sculptor,
and, above all, the men of literature in France, were objects of her, sincere
admiration, and her patronage of admiration, and her patronage of
them was generous to profusion. The Intendant had bcen a work of grati-
tude by the great ar:tist who painted tude by the great artist who painted
it, and was presented hy her to Bigot as a mark of her friendship and
demi-royal favor. The cabinet itself
was furnished in magnificence, which the Intendant The Chevalier de P'ean, the secre-
tary and confidential friend of the Intendant, was writing at a table.
He looked up now and then with a
curious glance as the figure of his chief mored to and fro with quick
turns across the room. But neither

With the Flowers.

Perennials for the Flower Garden


THE FARMER'S ADVOCATE


## MAY BARGAINS IN USED ORGANS

Every Organ described in this list is in perfect order,
and is fully guaranteed. Some have only been used a few months. We know that every one will give entire satisfaction, and, therefore, ship subject to approval customer, agreeing to pay the return freight if not satis
factory. Remember this when reading the descriptions factory: prices, and if you need an instrument at all, a early order should be the result, for certainly bette bargains never have been offered.
in case your first choice should be sold before your orde is received.

TERMS OF PAYMENT.
Organs under $\$ 50-\$ 5$ cash and $\$ 3$ per month without int Organs over $\$ 50-\$ 10$ cash and $\$ 4$ per month without in

A discount of $10 \%$ for cash. A handsome stool
BELL- A small 5 -octave parlor Organ, in walnut case, with 10
octave coupler.
Special
Sale Price ............................................... \$29 00 WILLIAMS-A 5 -octave parlor Organ, in walnut case, with extended top. Has
swells, octave coupler. DOMTNION-A 5 -octave parlor Organ, by the Dominion Organ Co., in handsome dark solid walnut case, with high top. Has 6
stons. 2 sets of reeds in the treble, 1 set in the base, knee swells, handsome dark sold
2 sets of reeds in the
Special Sale Price .............................................. $\$ 3400$ DOMINION-A 5 -octave walnut Organ, by the Dominion Organ DOMINION-A 5 -octave walnut Organ, by the Dominion organ
Co., Bowmanville, with resonant ends and high back. Has burl
walnut panels, 8 stops, 2 sets of reeds throughout, couplers and 2knee swells.
Special Sale Price ..................................................... $\$ 3900$ BELL-A 5-octave parlor Organ, by W. Bell \& Co., Guelph, in handsome solid walnut case, with extended top. Has 10 stops,
2 sets of reeds in the treble, 1 set in the bass, 2 knee swells, mousepre reeds in the treble, 1 set in the
Special Sale Price ................................................ $\$ 4200$ KARN-A 5 -octave parlor Organ, by D. W. Karn \&o Co., Woodstock, in attractive wainut case, wios.
music rack. Has cylinder fall, 10 stops, 2 sets of reeds through-
out, couplers and 2 knee swells. Special Sale Price .............................................. $\$ 4300$ hy the Sherlock-Manning Co., London, in handsome oak case, with rail top and finished back. Has 13 stops, 2 sets of reeds
throughout, 2 couplers, 2 knee swells, mouseproof pedals, etc. Used only six monthes
. $\$ 5600$ Used only six month
Special Sale Price nion Co., DOMINION-A -octave piano-case Organ, by the Dail top. Has 13 stops, 3 sets of reeds in the treble, 2 in the bass, mousep
pedals. etc.
 in handsome solid walnut case, without mirror top. Has 11 stops, 2 complete sets of reeds, 2 knee swells, mouseproor pedals,
etc. A fine modern instrument in perfect order. DOMINION-A 6-octave piano-case Organ, by the Dominion Co.,
throughout, 2 couplers, 2 knee swells.
Special Sale Price ............................................ $\$ 7600$ Specia
BELL
Has 16 stops, 6 sets of reeds in the treble, 4 sets in addition to
 pumping, as well as pedals. $\$ 7900$ DOHERTY-A 6 -octave piano-case Organ, by W. Doherty \& Co. Clinton, in case of very attractive design, with mirror top. Has

Special Sale Price ................................................ $\$ 8100$
Special Sale Price. $\$ 8100$
D. w
KARN- A very attractive
Karn \& -octave piano-case Organ, by
D. W. W top. Has 11 stops, 2 sets of reeds throughout, 2 couplers, 2 Special Sale Price
DOMINIONDominion
d panels. Organ Co., Bowmanville, in beautiful walnut case, carved panels,
mirror top and automatic folding mouseproof pedals. Has 11
 SHERLOCK-MANNING- A $\begin{gathered}\text { b-octave-piano-case Organ, by the } \\ \text { Sherlock-Manning Co. London, in wainut case, with full length }\end{gathered}$ Sherlock-Manning Co., London, in
plain polished panels, slightly carved in relifef. Has 13 stops, 2
pedals. Has been used less than 6 months.
Special Sal.................................. $\$ 8800$
GOURLAY, WINTER \& LEEMING
188 Yonge Street, Toronto, Ont.


INSTANT LOUSE KILER KILLS LIGE

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| THE ST. MARY'S |
| Semi - Automatic Gasoline Engine Only one-thlrd the parts seen on on other |
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| Petrolea, Canada. |
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GOSSIP

 ne and a choice lot of of onin pree
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The champion $\overline{\text { emale }}$ Ayrshire at the
Tilmarnock, Scolland, Show, Aprill 17 th
 Wurray, The Mur, old Cumnock. She
vas first in the nged cow class. The

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bredy appearanee; a show horse all over. breedy appearance; a show horse all over.
G authier 3383 , is a French Coach stal-
lion. whose breeding on prizewinning lines lion. whose breeding on prizewinning lines
is most intensive, his sire being one of
ing is most intensive, his sire being one of
the most noted show horses in France,
and his dam, (Gabrielle, having won two first prizes at the Chicago World's Fair,
first at Madison Square Gardens, New York, and first at the Trans-Mississippi
Fxposition, Omaha: he is also arandFxposition, Omaha; he is also a grand-
son of Perfection, five times champion of
Amarica America. Gauthier is also n great show
horse himself, having won first at Toronto, Ottawa, Sherbrook, and Detroit,
lesides several $\begin{aligned} & \text { championships }\end{aligned}$ These l,esides several championships. These
horses are for sale. important holstein and tai On May 27 h , as announced in the ad-
 from his noted Spring Brook herd, 38
head of high-class Holstein-Friesian cattle, head of high-class Holstein-Friesian cattle,
and 35 choce Tamworth swine. The
Iolsteins in the sale list are rich in the

Buy at Wholesale Price

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## AN EXPERIENCE

AT THE BELLE MEADE FARM

T'
HE Belle Meade Farm of Bed- $\mid$ would have required a thoroug ford, Mass,, is well known
for its thoroughyoing and scientific methods, and is a model in many respects. Its big stables Roofing. The owners write us as follows:
"It is now nearly three years since we put your Amatite Roof-
ing on our new 3ooft buildigs.
This Roofing is now in its third winter, and has gone through without a leak, and there is every
indication that it .jill be good for many years. The buildings with
this light, sparkling Roofing and this light, sparkling Roofing and
the red trimmings as painted, are
then very attractive in appearance, and
altogether we are much pleased altogether we are much pleased
with your Amatite Roofing. We
are contemplaing the construcare contemplating the construc-
tion of some further buildings for tion of some further buildings
our Shetland Ponies, and mean our mertand yonies,
If the Belle Meade Farm people had chosen a "smooth surfaced" roofing, it would have cost them
more in the beginning, and the
difference would have become greater every year. Those roof. painting, which would have to b years thereafter
The Amatite, however, has ha no painting, and needs none. The mineral surface takes care o that. When the roof finally wears out and the owners of the
Belle Meade Farm compute the Belle Meade Farm compute the
coot of their Amatite Roafin cost of their Amatite Roofing
they will put down "for the Ama tite, so many dollars"; "for care of same, nothing." If they ha
used a painted roofing there would used a painted roofing there would
probably be several coats of pain probably be several coatso of pain
to figure on, besides the original to figure on, besides the original
cost of the roofing, and the total cost of the rooting, and the total
would be several times as much as Amatite.
It does not matter whether your roofs be large or small wasteful to use anything
Let us send you a free sample, together with a booklet telling
more about Amatite. It will save

The PATERSON MANUFACTURING CO., Ltd.
Toronto,
MONTREAL winnipeg,
WINNIPEG,
VANCOUVER

## Watch Your

 FRUIT TREESWinter spraying can' prevent re-infection weather means the insects will be on the wing-passing from tree orchard
Have V 2 Fluid ready and watch the Fruit Trees At the first sign of insects moving, of Scale, Aphis, Psylla or other destructive insects, spray the trees with V 2 Fluid Spray Mixture (one part V 2 Fluid to 100 parts water That means death to every insect on the trees in which it comes into contact-and absolutely no injur and our book "The Eradi atio
Pests.
For sale by dugg its and datery
WM. COOPER \& NEPHEWS
V2 FLUID
The Summer Spray



 toms especherlly must be fully and clearly
statede. othwerwe satisfactory replies can-
not be given. 4th.-When a reply by mail is required
to urgent veterinary or
or
legal ent onuires

Miscellaneous

$$
\begin{gathered}
\text { FLOW OF WATER - TESTIN } \\
\text { WATER-FOUNDATION }
\end{gathered}
$$



$$
\begin{aligned}
& \text { 1. How much water would a } 1 \text { - inch } \\
& \text { pipe, two thousand feet long, with a fall } \\
& \text { of not less than } 7 \text { feet, deliver per day } \\
& \text { 2. Where could I get a sample of water } \\
& \text { tested, to see whether it would eat iron }
\end{aligned}
$$ or not?

3. Which makes the best foundation for
a brick house, cost being equal, ordinary a brick house, cost being equal. ordinary
stone or cement?
M. A. S. Ans.- -1.900 gallons, or 47.5 barrels,
approximately, on 7 feet fall in the
$\qquad$
$\qquad$ ELECTRIC GENERATOR.
$\qquad$ best adapted for charging four storage cells of
run a $t$-h.-p. motor, wound for 7 volts?
a mow should generator be wound ? 2. How should generator be wound ?
4. What voltage and amperage should generator give?
5. In installing said generator, would 4. In installing said generator, wowes
it be necessary to use automatic switches?
is If so, what is their function,
$\qquad$ 6. Would a windmill, with $10-\mathrm{ft}$. wheel,
be sufficient ?
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$\qquad$hence the kenerator must produce the run down. What can I give them to
least 8 vorts and 26.3 ampere, if the
cells are arranced in series when charg- tone them up? How could I disinfecting. If the cells were arranged in par- the stable?
allee whert charging, then your generator
a, A male twin calf, six months old,cult combination to obtain. so the former sulphate of iron, gentian, ginger and nux
would be better, and, indeed, a thorse-
comica; mix and give each horse a table-power motor running on 7 volts, is a spoonful three times daily. The stable
very unusual design.$\begin{array}{ll}\text { very unusual design. } & \text { can be disinfected hy sweeping and dust- } \\ \text { 2. Series, shunt, or compound. } & \text { ing thoroughly, and the giving a thor- } \\ \text { 3. Answered in 1. } & \text { ough coat of hot lime-wash, with five }\end{array}$
ner cent. carbolic acid. If, you do $n$
no
want the whitewash in stable, you c


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switch. As long as the generator is
working, the magnet holds the knife-edge of the switch in pasition. hut the mo- versary of the founding of the house of
one
neenism disappears, the swrich is thrown advertising agencies of America, as well
open by means of a suring. It should as the successor of the pioneer advertis-as the successor of the pioneer advertis-
ing agency, was celebrated at Philadel-
ing
The firm to upward of 500 guests, com-
urising their 260 -odd employes and themost prominent men of the country in
advertising circles, journalism and im-
mense enterprises and industries in com.mense enterprises and industries in com-
mercial lines. The esteem in which F .
II. Ayer is held wnes.
1). Ayer is held was shown by the pre-
montation of loving cups from the pub-
ishers with whom he has hat
The history of this advertising
of ency shows that push and progress go
last ingly at it,", and that "keeping ever
bring success. Ayer
\&

MA 19190
trade topics


THE PARIS PLOW CO.', LIMITED, PARIS, ONT.



Success Manure. Spreader
Has Light Draft Roller Bearings
 horse.
These "Roller Benrings" are accurately out out of cold rolled ateel and rivetted todethen
ta substantiol 18 you want the bazes. They can be removed from the machine without comind nepari orld buy the New 1909 "succeas,"
A Simple finstantaneous change of Peed Device. One lever moves a plalon troen ase row of


Bruce's New Century Swede
Turnip.



Bruce's Mam. Inter. Smooth White Carrot

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John A Bruce \& Co., Hamilton, Ontario
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## Don't Judge a Roofing By Its Looks

On the surface, most ready roofings look the same.
But the weather finds the hidden weaknes
in the fabric and rots them
The weather finds the volatile oils which are concealed below the surface, The sun draws these oils, in globules,
to the top of the roofing, where they to the top of the
evaporate in the air.
Where there was a globule of air, there remains a hole. And behind each hole is a tiny channel which lets the
weather and water into the very heart of the roofing.
When the sun and the wind and weather have sought out the hidden weaknesses, the roofing is porous,
stead of solid; watersoaked, instead of waterproof.
You can't tell by looks, which roofing
will last twenty years, and which will will last twenty years, and go to pieces in a single summer
Seventeen Years of Service
But you can do this: You can tell the original Ruberoid roofing-the, only
roofing which has lasted seventeen have proven their unworthiness.
Ruberoid was the Ruberoid was the
first ready roofing. Its basis is the best
wool felt impregnawool felt impregna
gum.
It is this wonder-
ful flexible gum ful flexible gun
which no other mak

The Standard Paint Company of Canada, Ltd., Montreal, Canada


The Lock that makes "Page Fences
that makes ".
Wear Best."


It is this gum which gives Ruberoid all the flexibility of rubber without conwhich withstands wind, weather, sur fire, acid, gases and fumes, where al other compounds fail

It is this gum, in the Ruberine cement
Iich accompanies each roll of Ruberoid roofing, which makes ours pracoid rally a one-piece roofing-sealed against 1
weather.
Ruberoid comes plain and in colors The attractive Red, Brown and Green Ruberoid are fine enough for the cost-exclusive-protected by patents.

In the past twenty years we have had xperience not only with all ready roofings, but with other roofings-shingles, tar, tin, iron and other roofings.

We Test All Roofings
Each roofing we have exposed to the
weather test, on our roof garden at our factory.
The result of these twenty years of This book is information, telling about the advanta-
ges and disadvantages and disadvanta-
ges of each roofing
foreach for each purpose. To

Page High Carbon Wire is from $33 \mathrm{3} \%$ to $50 \%$ stronger. Which fence can be stretched the tightest? Which will hold its shape and consequently require least number of posts?
Posts for Page High Carbon Steel Fences can, with equal factor of safety, be set one-half greater distance than for hard steel or ordinary wire fence. Suppose posts cost say 16 cents digging and setting 10 cents. How much would you save, figuing the Page Empire all No. 9 fence costing you save, higuing the Page Empire al ho. two or thriee cents more than Eco hard sed
figures will prove Page the Economical Fence
To all making request to our nearest office, we are mailing, free of charge, a Booklet entitled "How to Test and Prove Wire." lit's a money-saver, as you can know for a certainty what quality of wire is used in any fence. No more guesswork. This Booklet is a practical text-book on the fence question. Every farmer or property owner ought to have it. The Booklet, formerly had a big sale at 10 cents per copy, but as the Page Wire Fence Co., Limited, have copy, but as the Page they mail it free to enquirers. Send for it now while you think about
THE PAGE WIRE FENCE COMPANY, Limited walkerville

MONTREAL

## There Are No Two Ways About It.

Page High Carbon Fences are either the most economical to buy, or they are not.

MAY 6, 1909
THE FARMER'S ADVOCATE.


The D. Moore Company, Ltd., Hamilton, Ont.
J. S. KEMP The Inventor of the Manure Spreader and the
$\square$ Kemp Manure Spreaders
 Imperial Horse-Lift Drills






 grade of material successfully, and with
mubh tess powerial
To those wishing to know my experience


Write for Manure Spreader and Seed D Dill Catalogues, which fully describe these machincs,
Live agents wanted in unoccupied territory. W. I. KEMP CO'Y, LTD., STRATFORD, ONT.



WHEN WRITING ADVERTISERS, PLEASE MENTION "THE ADVOCATE.

## Greatest Building Offer Ever Made!

2,000 will bulld this beautiful $\$ 4,000$ home with metal construction.
The outside of this building is covered with our Sheet Metal Exterior Stone Sheeting (see sample design below). The roof is cevilding exterior is of metal con Shingles. The entire builang eilings. The test of twe truction, exces that it keeps out the cold, and the nonconducting walls make it a cool house for summer

$\qquad$
Thls commodious barn was sided and roofed with "Acern" Corrugated Sheeting. It is guaranteed lightning proof. The corrugated sheetIng will last for years, and furnishes the best ilre protection. $\$ 450.00$.


You can build now cheaper and better than ever before. Don't pay present high prices for lumber, of inferior quality too, when you can build a metal house, barn, chicken house, ing and stock sheds for less money. Triction is fully one-half, when you follow our perrected plans. A sheet metal building can be erected in less time, and building can be done at any time of the year.
Use Metal Gonstruction, and save no only in building cost, but as much more by being free from continued painting expense being free from continued painting expense never needs attention, and lasts for years. Write us and let us give you facts and proof about

## SHEET METAL EXTERIORS <br> AND INTERIORS <br> "SAFE LOCK" SHINGLES <br> "ACORN <br> CORRUGATED SHEETING

 $\underset{\substack{\text { MEETAL } \\ \text { person onrario }}}{\text { SHINGLE } \& ~ S I D I N G ~ C O ., ~ L T D . ~}$

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QUESTIONS AND ANSWE Miscellaneous

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THE FARMER'S ADVOCATE

## Seeing Myself as Others See Me

I laughed at a so-called Metal Roofing Guarantee a few weeks ago, and was just looking at a report of it. I considered it a joke because my lawyer said the Guarantee I showed him wouldn't hold water a minute.

Have you been interested enough to prove that either my lawyer or myself was wrong?

The point I made was that the past showing of the fireroof, ' weather-proof 'Eastlake" Steel Shingles (made by the oldest and largest Metallic manufacturers in the Dominion) was cafer than the future guarantee of any other manufacturer, even if it were bind.ng. During Lhe Laymen's Missionary Convention in Toronto last month, I was showing a friend around the Exhibition grounds and buildings and pointed out some "Eastlake" shingles that were laid 25 years ago and are in perfect condition yet. As a matter of fact, the Me allic Roofing Company who manufacture the Eastlake Shingles have been awarded Three Gold Medals by the Canadian Nationa' Exhibition Association.

The Meta lic Roofing Company are often asked if they can meet any guarantee or promise made by any manufacturer of sheet metal goods. Of course they can and will-they'll undertake any problem you have - estimate the cost, etc. Write them to-day.
-The Philosopher of Metal Town.
The Metallic Roofing Co., Limited
Manufacturers
TORONTO AND WINNIPEG

QUESTIONS AND ANSWERS. Miscellaneous.

FRUIT AND POULTRy FARM. ami well pleased with your weekl irnal, and consider it a good all-round
nal for the whole of 'canada. It is nal for the whole of Canada. It is
intention to return to Ontario and
and Irt a horticulture and poultry farm, as Whider the best profits are in Ontario What part of Ontario would you
West for me to start in this business have a first-class marhnt for the prod
what would you think the aver 4.) What would you think the aver price of land would lw, J. ©
What hewne.



You cannot possibly have A delicious drink and a sustaining
food. Fragrant, nutitious and
economical. This excellent Cocoa
maintains the system ini robust
health, and enables it to resist
winter's extreme cold.
Sold by Grocers and Storelkeepers
in tollo. and $\begin{aligned} & \text { b-lh Tins. }\end{aligned}$


QUESTIONS AND ANSWERS Miscellaneous. PINE TREES FOR PLANTING.

1. I have about $1 \downarrow$ acres of land suit-
able for the growth of pine trees. What
variety is best suited to grow trees which able for the growth of pine trees. What
variety is best suited to grow trees which would, in time, make good umber ? Do
the Dominion or Provincial Governments the Dominion or Provincial Governments
make any provision for the free distribumake any provision for the free distribu-
tion of pine, or any other trees suitable
tor for planting for forestry purposes? It
not, would you give name of firms who
grow them for sale? grow the
Quebec.
Ans.-Terhaps the white pine would suit
best. We could not say definitely withbest. We could not say definitely with-
out knowing the nature of the soil and the topography of the district. The On-
tario Government aids furestry by sup-
plying trees, through its Irovincial nurplying trees, through its Provincial nur-
sery, inaugurated at Ontario Agricultural
College, Guelph. The Iominion Government forestry branch also assists those
interested under certain conditions. Maniinterested under certain conditions. Mani-
toba maple, ash, willow, cottonwood and
elm have been distributed to settlers on
the elm have been distributed to settlers
the prairies of Western Canada. It
expected that a limited quantity of eve greens. will be ready for distribution in
2. The Quebec Department of Lands
and Forests has established a nursery at and Forests has estabsied a supplying
Borthierville with a view to sup
trees suitable for forestry planting. CHICKEN CHOLERA - GRUB I
HEAD-YOUNG APPLE HEAD-YOUNG APPL

TREES DYING

1. A sheep took staggering fits, would
fall back and lie for an hour; would not
eat; lingered for about five days, then died. It was thritty and fat.
dias, Could you give me a cure for cholera
2. 3amens and turkeys, and cause of the
3. What is the canse of young apple same? What is the canse of young apple
4. Wrees dying after bearing fruit three or
tre Crees dying after bearing fruit three or
four years. Under the bark there ap-
pears to be a small louse. Lanark Co.. (Ont. subsCRIBERE.
Ans. - . This trouble is probably due
to grub in the head. resulting from the
eggs of the sheep gadlly being deposited to grub in the head, resulting from the
eggs of the sheep gatdly being deposited
in the nostrils of the sheep in summer
time (ime. Treatment is seldom enfectual, hough some claim to have dislodged
grub by placing a piece of plank on
bead and hitting it hard with others by syringing hard with a mallet
of turpentine
or tobacco juice into the nustris, holding
竍 violent sneezing. Preventive measures
are tarring the nose of shepp, occacionally
in in summer, or giving them access to a
dark shed in hot weather.
Fowlingern is caused , in the press
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## Choice Farm Lands

FOR SALE ON EASY PAYMENTS.
in Western Canada there are great opportunities for the willing farmer. He can make money and success of farming. We
have for sale the very choicest of Farm Lands in Saskatchewan, and guarantee to please the most particular. Let us tell you about them, and how others are making money here. Write at once for maps and pamphlets and full information. Our years of experience are at your disposal. All we TRACKSELL, ANDERSON \& CO., REGINA, SASK. British Columbia office: 1210 Broad St., Victorla.

## IRON STABLE FITTINGS

Stewart Horse-clipping and Sheep-shearing Machines


Knives Sharpened and Returned Promptly
Before fitting up your stable write us for it
formation and prices.

THE TISDALE
IRON STABLE FITTINGS CO., LTD

THE FARMER'S ADVOCATE.

 The Graster Complatate and Retall Hone


 Crade ampectilit)

HERBERT SMITH, Manager.
(Late Grand'ı Repository).
NEW C.LYDESDALE IMPORTATION

 T. H. HASSARD, poss ormace prowere And startor.

CLYDESDALES AND FRENCH COACHERS

R. NESS \& SON, HOWICK, QUEBEC.

CLYDESDALES AND SHORTHORNS. - Both Imported





Rats

We want your shipments.

JOHN HALLAM, 111 Front St. E., TORONTO.
Clydesolales and Hackneys wo kyy. witat


IMPORTED SHIRES ,om
matrostubued




COMPLETELY $\qquad$ T TO LAND MY NEW IMPORTATIO
CLYDESDALES AND HACKNEYS SOLD OUT about March loth. My motto is : Quality, not quantity.


ทIMPORTED CLYDESDALES







Choice Scotch Shorthorns Choice Scotch Shorthorns ve are offering severery
 SHORTHORNS

Belmar Parc
 UEM SHOR'THORNS




 ans, and has acute diarrhea, and will not eat anything. $\qquad$ with mustard, mixed with equal parts oi
of turpentine and warm water. pand the
wrat
$\qquad$ her nostrils by holding them over a po
of hot water. Give her 1 ounce lauda-
num, 3 drams catechu, 2 drams nux
vomid num, ${ }^{3}$ drams catechu, 2 drams nux
vomica, 2 drams gentian, and 30 grains
quinine, in a pint of cold water aver
hours, quinine, in a pint of cold water every five
hours. As soon as diarrhea ceases, omi
the hours. As soon as catechu. Keep her
the latanum and cater
strength up by drenching with boiled flaz strength up by drenching with boiled flax seed, milk, and raw eggs

WARTS.
Horse has very bad warts; not the or
dinary kind. They bleed easily if rubbed dinary kind. They bleed easily if rubbed.
I have tried applications which takes the top off them, but they grow larger every
time. I took off one that weighed a pound. Ans.-Local applications are too slow
in action to remove large warts. in action to remove large warts. Each
wart should be carefully dissected off. wart shous must, of course, be cast and
The horse
secured for the operation. After dissecsecured for the operation. Atter dissec-
tion, the raw surfaces should be dressed tion, the raw surfaces should be dressed
once daily with buter of antimony (aponce daily with butter of antimony (ap-
plied with a feather), for $a$ week; then
dressed three times daily with a five-perdressed three times daily with a five-per-
cent. solution of carbolic acid in water cent. solution of carbolic acid in water
until healed. The daily application of
int until healed. The dally applicati, nitrtc
any caustic, as butter of antimony, ner
acid, nitrate of silver, etc. and, nitrate of silver, etc., will remove
acid
small warts, but some grow faster than SORE SHOULDERS AND NECK. Horse has boils on shoulders and top
of neck. ageable. I have given hin powders twice daily without results. Will light work hurt himed meal do him any good, and, it so, how much ? $\qquad$ than constitutional treatment. If fibrous,
hard tissue has formed, it must be dissected out. In most chronic ceses of
this kind there is a formation of this nature. Atter operating, derss three
limes daily with a five-per-cent. solution of carbolic with a in ive-per-cent. solution
water until healed.
If there be no growths as stated, dress three times daily with formalin 1 part,
water 5 parts. He should have rest, or be worked with a breast collar until but a cupful of meal once daily is good
for any horse.

Miscellaneous.
MOSS IN LAWN
How can I destroy woods moss that is
coming up all over in bpots in our fine
$\qquad$ moss. There completely covered with moss and it is shaded part of the day with
maple tree where it is the worst.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
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$\qquad$

HORSE OWNERS! USE

Dr. Page's English Spavin Cure
 , mind
ANCHY
THB Mo YRN CuBE POR Bone Spavin and Ringbone.





 thio phapherer is 5 sl.00 by mail. Addres, meutioning J. Mantacturins Chrmist


You Can't CutOul A Bog giAYIN puly or ABSORBINE Holl cion them off pormanonaly and



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## Hereford Bulls


H．D．Smith，Hamilton，Ont． ingleside farm．
The Sunny Side Herefords．
 Peare．Write for pricec．LLong diditance phone． M．H．O＇Neil，Southgate，Ont． homestead aberdeen－angus

$\overline{\text { Aberdeen－Angus Cattle }}$ For Sale：Cows，Heifers，Bulls．

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 Plymouth Rock ers tor hatching．
JOHN RACEY，Lennoxville．Que．
1854－Maple Lodge Stock Farm－1909 shorthorn bulls and helfers of extrar
quabity and breediog，and from beet milk－ ing trains．
fulice ters of fib
W．SMITH．Maple Lodese P．O．，Ontario．
Scotch Shorthorns ${ }^{\text {Twelve choice red }}$ months．by Imp．Protector，some out of imported
dams．Also Hackney flices．M． M.
and P ．M．R．s． McFarlane \＆．Ford，Bex 41 ，Dutt on，Ont． shorthorn Bulls $\begin{gathered}\text { Ready for service．One will } \\ \text { malce } \\ \text { athow bull．} \\ \text { Alion }\end{gathered}$ Koung thing．from Matchiess，Crimen Flower．Mises
 Resistered SMORTHORN Yearllis Bull
 PLEASE MENTION THIS PAPER．

THE FARMER＇S ADVOCATE
and
and

Amitiotod for years with a Diseased Liver. Mr. L. R. Devitt, Berlin, Ont, bottor
tnown, perhaps, as " Bmallpox Bon," has MILBURN'S LAXA-LIVER PILLS
Ho has aloo used them for him patient then nursing that small-pox sufferers muat keop the bowrels well regulated.
Read what he says :-"I have boen Road what he says :- "I have boen
afficted for years with a diseased liver, and filicted for years with a kinds of medicine, but of no sail until about four years ago I tried our Laxa-Liver Pills, and got instant relief. inco then I have nurbed, anderent patient have nsod your valuable pills.
"My wishes are that all persons suffering with stomach or liver troubles will try Milcham whonever and wherever I have an epportanity at the pills, I will bee fortunate onongh to get the oformula.
Miburn's Laxa- Liver
Miluurn's Laxa. Liver Pills aro 25 oonta per vial or E vialil for 81.00 , st all dealorn D., Limited, Toronto, Ont.

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If you are thinking of buying a choice
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We want to sell. Will price nything, and guarantee it just as described. Our stock bull, Summer Hill Choice Goods, has 5 half-sisters that average $29 \frac{1}{1 / 2}$ lbs. butter in 7 days, and one $4-$
yr.-old half-sister, Champion of the World, with 31.62 lbs . butter in 7 days. His dam ave over 18,000 lbs. milk in one year.
Visitors cheerfully met at Hamilton by D. C. Flatt \& son, millgrove, ONT Bell 'Phone in House : 2471 Hamilton. DNNTT $\begin{gathered}\text { Buy a HOLSTEIN BULL till } \\ \text { you get my prices on cobice } \\ \text { goods from five months toone }\end{gathered}$ g strains. Fair mionth old, from best produc, Marreswe.
 n 1908 was called a pacer in Missouri
Gooseberry.-Horse Review. That's nothing. A member of
the 1luffalo tlunt Club has just christened

## GRAND NEWS

 FOR OLD FOLKSWhat Dodd's Kidney Pills did for hiram Brown.

Cured His Aches and Pains and Gave Him Restiul Slumber
the Old Folks' Friend.
East Mapleton, Cumberland
 or this pace, is still one of the grandest
sights in life, a hale and hearty old gen-
leman. And like many another Canadian weteran, he gives Dodd's Kidney
 oi gracel and kidney trouble. I was fizzine... cramps in the muscles and stiff
les in in joints. My sleep was broken ince taking Dodd's Kidney Pills iilney pills a wonderful mediyed man or woman who has
kidneys can afford to laugh at idnees can afford to augh at
ilife. For healthy kidneys keef
i lape and ensure good, restful
pad's Kidney pills always make

THE FARMER
QUESTIONS AND ANSWERS Miscellaneous

GROWTH OF WALNUT.
olve a Farmer's Advocate" seems t Questions and Answers Department, so am taking the liberty of sending one.
A black-walnut tree has been planted in diameter. and is about two inches in diameter. Could you give me some from now, if it continues to grow rea-
sonably for that ncrease faster as the tree gets older the tree is for lumber. Questioner. Ans.-The growth of black walnut, of
any other tree, depends upon severa factors, the more important being severa
suitability of the tree to the climate; the
nature nature of the soit, and the climate; the
the tree, i. e., whether growituation o the tree, i. e., whether growing in the
open or in dense stand. A tree growing
in the open, with the open, with a full, large crown
has a rapid diameter growth, but does
not produce very many logg on Any prediction as to future growth be readily understood factors, any and it can of future growth is somewhat relative. At Guelph, there is a black-walnu
plantation on a gravelly-clay soil, with
the trees originally planted aboit Che trees originally planted about 8 fee
apart. This planting was done twenty-
five five years ago, and the trees are from
to 9 inches in diameter at the stump Chis inches in diameter at the stump
rhantation is at fault for two rea It is not good soil for black wal ret ards proper grows beneath the trees, which in Southern ondividual black-walnut trees
from 10 to 12 inches (hich have made
growth in twely fom 10 to 12 inches' growth in twenty
years, but this was on first-class, warm O. A. C., (iuelph F. I. ZAVITY.
NEGLECTED ORCHARD-FIGHT ING TANSY - ALFALFA
AFTER FALL WHEAT 1. I have forty old apple trees, full o
pold and dead, and with too many living
imbs limbs. Can I cut them out any time
that I have to spare, without killing the 2. I have four acres of fall whèat near
the barn and would like to make it into ig pasture. Can I harvest the whea low it up, and sow alfalfa, or would it
be too late?
3ith a have eight acres, plowed last fall,
vith big pathenes of tansy, very strong
nd matted roots. How can I root it with big patches of tansy, very strong
nd matted roots.
now can I root it
out? OLSTE FOR SALE.
R. Honey, Brickley, R. Honey. Brickley, Ontarian
 Spring Brook Holstelns and Tamworths
Two choice bulls ready for service, one sired by Two choice bulls ready for service, one rired by
Nanuet Pieertie Paul whose three nearest dam
average over 25 Ibs. butter in one week; two bul



$\qquad$
 HOMEWOOD HOLSTEINS|MR. A. I. HICKMAN,
$\qquad$ prices and description. Station on the place.
M. L. M. H. HALEY. Springford. On The Maples Holsteln Herd Headed by Lord Wayne Mechthilde Headed by Lord Wayne Mochthilde Calamity.
Nothing or sor at present but choice bull calves
from Reord of Merit dams ; also a few good cows
at reasonable prices. at reasonable prices.
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THE FARMER'S ADVOCATE
QUESTIONS AND ANSWERS Miscellaneous.

SALE OF CATtLE
A sold eight cattle to B for (as A
understood) $\$ \$ 50$, to be delivered ten
miles miles, A accepting $\$ 10$ on sale. B un-
derstands purchasing price of cattle to be
$\$ 4.50$ per hundredweight, a price A would not consider by full value.

1. Can B compel A to deliver cattle 1. Can B compel A to deliver cattle,
to be weighed, at $\$ 4.50$ per hundredweight, the only point of difference being a mis
understanding of price, A maintaining the price to be $\$ 450$ lump sum, B's conten
tion being that the price was $\$ 4.50$ per cwt., live weight?
2. How should A proceed? Ontario. INQUIRER. Ans. 1 . We think not, unless B has
satisfactory corroborative evidence available to support his contention.
3. He should return the $\$ 10$; unless he on his part is in a position to adduce
effective corroborative testimony, in which case he should tender delivery of the cat-
tle. He would then be in a position to proceed by action, if necessary, for th
balance of price.
SICKLY CHERRY TREES. Have a number of cherry trees that
have done well every year up till last
year. They had a food crop f cherries but only grew to be one-half size, not
worth picking picked. Could you tell me the cause,
and what to do for them? Ans.-The crop of half-grown cherries
produced by your trees indicates that the trees are suffering from lack of nourish
ment in some way ment in some way. This might be due
to drouth or injury of some kind to th to drouth or injury of some kind to the
trees; but it is most likely it is due trees;
a weakening of the trees through winter
injury. It is quite probable that the injury. It is quite probable that the
trees are suffering from what is commonly
known as "11lack Heart." known as "Black Heart," that is, the
interior wood of the tree is dead and
black, which is really the result of winblack, which is really the result of win-
ter injury and may result in the ultimate
death of the trees If they do not re death of the trees. If they do not re
cover and bear well this year, they migh as well be tak
healthy trees.
 Stoneycroft Ayrshires
 ing combining stow and darif qualty Larse Improved Yorkshlre Pliss from imported siree Stoneycroft Stock Farm, Ste. Anne de Bellevue, Oue

 HOWGLEN AYRSHIRES!|CATTLE AND SHEEP LABELS For sale: 75 pure-bred registered Ayrshires, all
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Apply to Allan P. blue. Eustls, Quebec AYRSHIRES $\begin{aligned} & \text { Bull and heiter calves trom pro- } \\ & \text { ducing dams. Right good ones. }\end{aligned}$


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| ARE YOU IN WANT OFA <br>  |  |
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hardiness of constitution, adapted to all climates, and in quality of
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Champion against ALL breeds at the
great Smithfield Show, London, 1908.
Secretary, Hampshire Down Sheep Breeders' Assoclation, BALISBURY,
SAR

NGLAND.



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 dict, of unknow.

Mite Murlal Wright, Muniao, N. B., writees,
 IThe not able to do any hoube work atalland




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aineer leisurely driving a herd of pigs. 3 yut
 and




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| Woid the leadiog honors at To |  |
| thid fall For from are both |  |
| sides. Show thinge a spe | good lot. Also youn not aliin. JOHN |
| Jod J. | G.T.R. M |
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courrage, strengsth and ambtion, throe








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the sections are galvanized by our exclusive process that covers the en
tire surface with at thick coating of tire surface with a thick coating of
zinc spelter. Every cdge, every crev zinc spelter. Every edge, every crev-
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The heavy-gauge Pedlar Billet Iron sections, deeply corrugated and locked together without bolts or rivets by out
compression tripl - rib (this rib is flatcompression tripl. rib (this rib culvert that not stand enormous crushing strains
will
and neither give nor spring. A thin and neither give nor spring. A thin
cushion of soil on top is all the protec cushion of soil on top is all the protec
tion such a culvert needs against traffic ton such a culvert necds aganst ta ob
and nos special precautions need be ob
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Look at It in the Picture
© HOW this advt. to your wife. Ask her what it would mean to have - a cabinet that held everything used in cooking,-focussed the whole kitchen-battery in one spot, right in easy reach of a woman seated, instead of making that woman trot from pantry to cupboard, from cupboard to table, from pot-closet to range, back and forth a hundred times a day. The Chatham Cabinet saves, easily, five hundred steps a day in any kitchen; and the kitchen is easier kept tidy, gets rid of endless clutter, and the foodstuffs are kept in far better shape and wasted less. Isn't it worth while to save the women-er just that.

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clean, and unwearoutable. Drop leaves at each end, self-locking when lifted and strong enough to hold a man's weight
Nothing about in its own way: roomy, handy, right, - within Table top is 2
floor whole $6 \mathrm{ft} . \mathrm{hi} \mathrm{g} \mathrm{gh}$
than
a a nd yet has for everything, spices, package
tea, baking kit, used in getting路
 the Cabinet is everything is cerything is place the are provided every placed just are of snowy useful; drawers It e a mirror (at top, centre) of Cabinet is irom lest quality; catches and knobs Holds more heavy copper finished, - every cived closet, part of it BUILT RIGHT, and the right place better built than any other cabflour, sugar, inet sold. Metal bottom under knives, whole cabinet, and dust-tigh knives, pots lack; mounted on triple-action
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