


## Best Salt <br> Windeor <br> Salt

is famous for its purity and perfect quality. Buttermakers all over the Dominion say Windsor Salt
ts the easiest to work, makes the most delicious butter, and th the cheapent in the end. Aatry rour donlor for Mhindeor Sell

## Rosthern

The Center of the Finest Saskatchewan.
$\qquad$


 shende until you have written the Socretary of
whe Board of Trade at Rosthern: who will be



Agood investment that pays dividends all througb
life is a course of training in any of the Departmento



The Wortman \& Ward Co,'s Hay Fork Outifits



THE WORTMAN \& WARDCO., 541 York Street, London, Ont No. with address.

## HIRSTS PAN EXIEPMINAOR



In answering any advertisement on this page, kindly mention the FARMERS ADVOCATE

Know the weight of what you buy or sell
 Every farmer chonld own - BCALE that will insure proteetion sgaine
lome when soling or imposi tion when buying his many farm productes or supplies. Constant watchfulness for little breinies "loeke" is necessary for farming .
Large loeses must be stoppod fret, but it doemn't take long for a fow trifing leaka, here and there; to become large lossee too, in the Wagor Scale, \& whoels, sope inis. eapsetis. It is not an uncommion thing for a buyeps socale to "wrigh short" 5 per cont;, whilo it.oocanionally aspene that the shortage reaches 7 i 8 per cent.
Iot us soe what it meene to you if you get chented even no little an the $\$$ por cotimate, 5 per cont. If your totel grain selel were $\$ 1000.00$ yearly,
 on $\$ 1000.00$ worth of other mifoollaneous farm produce, sold by woight, 850.00 . This would mean e total lose of $\$ 130.00$ from petty shortages in weight on a Whes oined ferm. Imagine what it trould figure it 8 per cont.
What oan be saved in one year would pay for a Ohatham Scale several
Chatham Farm Scale
On Two Yoar' Timo, No Cash to Pay until Nov., 1806 A soule in as necosesty on a farm as in a atore. There is not a dey in the yeer that a farmer doem't lose some money it he doesn't own one. After the firat year a Chatham Farm Scele becomes -

No Cash Required until Nov., 1905 money maker as well as a money saver, for, having psid for itsolf in one yoar, and atill makipg monoy by saving it, that money goes into the Don't be without e'
about it, get the beg good farm scalo, and, while you're This Soale is made in the Chatham. Scale and four-wheel Wageu-two-wheel Truck fully set up, ready for use, when shipped. They aro mechanically perfect, all pivots and bearinga bolig protectod from domp and dirt, and the parts interchangeable-and acsily replecod. It is the simplest and handiest soale made. Drop a lever and - boons a strong truek; raise the lever and you have an accurately
adjunted, perfoetly construoted farm soale.
When the lover is dropped, no weight oo To other furm scale hne this eages of the scale of er larm scaie has tain femture, by virtue the pivots get dull.

Tvery Chatham Torm Soalo 1 - the Goreramen Farm Soalo is coarefully testod Mensures, and oarries his certificate of accuracy. We have a booklet giving full particulars Sond for it to day

The MANSON CAMPBELL CO. Limited
CHATHAM, CANADA
Dept. No. 802
Chatham Tnoubatorn and Brooders

tanatioctan the Ohatham Fainning Mill - odern
Dibributing Warehouser at Montreel, Que., Brandon, Main
B.O., Halifax, N.s.
AGENTS WANTED. $\begin{gathered}\text { Good men who anow evidence of true salesman- } \\ \text { ship will be offered special inducemente. }\end{gathered}$

##  <br> पHEP ANOEOR WIRE FENCE Is the strongest and best farm fence on the market. It is made throughout of No. 9 galvanized steel wire, either plain or coiled throughout of No. 9 galvanized steel wire, either plain or coiled, person can constiruct the fence by following directions as given in our free catalogue. Agents wanted. <br> GATES AND FENGE WIRE FOR SALE. <br> ESPLEN, FRAME \& OOMPANY, STRATFORD. ONT.

ADVERIISE IN THE ADVOCATE

LASTS
A
LIFE
TIME

Applicable to Dwelling Houses, Stores, Factories, Warehohses-infact every kind of building. Therc is no limit to its use as an outside covering - It very materially enhances the appearance of any structure at the minimum of cost.

- Greater protection is afforded against the ravages of fire, hence les ey need be squandered in fire risk premiums.

The Chasilik Kids will gally fumish detailic
GALT ART METALCO., Limited, GALT, ONT.


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Grain Grinders, Gas basoline Engines, 1 Tanks,

Bee Supplles, Etc.

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WINDMILLS


A Canadian Airmotor Is as Good as a Hired Man
 sAVES YOUR $\left\{\begin{array}{l}\text { MUSGLELS } \\ \text { MONEX. }\end{array}\right.$
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Saves time, labor and manuremerefore saves you money. Spreads all kinds of manure and commercial fertuliser, and does it wELL. Write for pricees and see our catalogue bofore baying. Complete satisfaction guaranteed, or no sale. THE WILKIISSON PLOUGH CO., Limited, - Toronto, Canada,


Or Want a Situation, put an Advertisement in our
WANT AND FOR SALE OOLUMN. Our Want Ads. Always Bring the Best Resulte.
The William Weld Co., Limited, London, Ontario. Magnotlc Conil Co, - St. Thomas, Ont,

## The BEST Summer

 HORISE SIONQUELPH, ONT.
June 7th, 8th and 9th, 1905 WKDNESDAY, THURSDAY, FRIDAY.

Enabling exhblitorg to
get home on Baturday.
BIG PRIZES AND GOOD JUDOINB
special rates on ralliroad
send for Prise List to
ALEX, STEWART, Sec., ginalph,
Go Slow!
 Other purpose wín
tigating our groat "CLIPPER"


A Good Head of Hair Prof. Long's Magnetie Combs

 magnotic Co In answering any advertisement on thas page, kindly mention the FARMER'S ADVOCATE.


THE OSHIWA ROD TRACK CARRIER FOR ISO5 Manufactured by THE OSHAWA HAY CARRIER WORKS, OSHAWA, CANADA.

## QUEENSTON CEMENT

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ISAAC USHER, Queanston, Ont. TURNIP SOWERS



$\underset{\substack{\text { Thborough } \\ \text { Ty } \\ \text { ceutect }}}{ }$
compat te.
W. P. PLANT, Hastings, Ont, Stock Farm for Sale-Burnbrae Stock Farm,




TIME IS MONEY DeLAVAL
Cream Separators save tme
AND THATS NOT ALL sinv

THE Delaval separator co.
77 York Street
TORONTO MONTREAL

## "'RockwALL"

Superior Hard Wall Plaster
also
LAND PLASTER IN BAGS

## CONTRACTORS' SUPPLIES

Portland Cement
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HAMILTON,
,
CANADA.

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OARRIUTHERE \& POOLET,
Real Estate Agents
Kelowna, в. C.

## YOUR ROO.

What's the test of a good roofing? First, wear and tearts scecond | reputation. Atroiet |
| :--- |
| has stood both tests | fora kood many years Yorapood manild new

Before vou build new or repair old build ings, write us for free sample of

- AROLD


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Thos. Southworth Direetor of Colonization, Toronto

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graph book, givins Morce alphabet and
full particulari today.
dominion school of telegraphy
9 East Adelalde st., Toronto, Ont. Advertise in the Advocato

## Che

# Farmer's Xidvocate 

 ,rammonmano and fome Magazine.Vol. XL
LONDON, ONT., AND WINNIPEG, MAN., MAY 18, 1905
Why Do We Cultivate?
EDITORIAL.

|  | Regulation of Railway Rates. |
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|  | matters of ract, atre to the supreme corrt |
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|  | tually have the power of ve'o on all its deNote the remarks of Tresident Roose addressing the Chamber of Commerce a |
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|  | highway of commerce is the railroad, and this changed system we ste highways of |
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|  | Ssary that the nation should assume a suFer-- |
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|  | ory and regulatory function over the great porations, which practically control the high$s$ of commerce. |
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|  | legislation must come, and if the railwayof the country were wise they would aid. |
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|  | hinder it ; that the sentiment of the countr such that failure of proper segulation meant ampaign on the subject that would do no. good |
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|  | t discrimination.' <br> In Canada of late we have had the ofpowiun |
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The Farmer's Advocate
and Home Magazine. thb lebading agricultural journal in the

Two Distinct Publications-Éastern and Western
Eastren Office:
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branch Offick: Calgary, Alberta,
W. W. Chapmand. Agent, Mowbray House, Norfolk Street,
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THE FARMER'S
THE (sesues per year).

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of address should give the old as well as the new P. O. address.
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We are always pleased to receive practical articles. For such as


 with shis paper should be addreased
individual connected with the paper.

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the william weld company (Limited),
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work and larger profits than in the old days of cheap labor but antiquated methods. Where a
weeder is not included in the list of available farm tillage implements, effective work can be done by giving tho corn fleld one or more strokes iately after the corn is up.

## Agricultural High Schools in Minnesota

Something of a misconception has gone abroad with reference to the system of agricultural edL. cation in Minnesota, as conducted at the presen nesota has adopted what may be termed a sys tem of high school education in what pertains to agriculture. It originated, probably, in the
name School of Agriculture which forms name School of Agriculture, which forms a part
of our comprehensive university system in Minnesota. We have no agricultural high schools as
such in the State. To Wisconsin belongs the such in the State. To Wisconsin belongs the
credit of introducing what may be termed the agricultural high school as may be termed the the session of our Legislature, which a few weeks ago, an Act was passed setting aside an appropriation for the establishment of a
agricultural school at Crookston, which will doubtless be of the high school order, but the
details of management or course of study have not yet been worked out. It will probably 1
conducted somewhat after the methods followe in the Wisconsin schools.
Thus far the Minnesota system is in ouline as
follows: First, are the district schools, which correspond with the common schools in Canada more or less, with the same class of schools in Or tario; then there is the university, with its various
deppriments. Intermediate, as it were, hetween departments. Intermediate, as it were, hetween
the hiyh schools and the university, are the nor
mal schools, for the education of toacherc mal schools, for the education of teare the nor- The
Tistrints shonol, of course, feed the high schools,
und the latter the university
same by those who pursue their studies until the
goal is reached. The university virtually con goal is reached. The university virtually con-
trols the final examinations at the high schools trols the final examinations at the high schools enter the university without further examination. The system thus far is one comprehensive whole, leading up from the kindergarten schools to gradexplanation, probably, of the very large attendance of students at the university-not less than
something over four thousand. something over four thousand.
The school of agriculture, though in a sense a part of the university profer, may also be
called an advanced high school for imparting an called an advanced high school for imparting an
agricultural education. Students may enter it from any source, who are able to pass the re-
quisite examination, and graduates from the quisite examination, and graduates from the tion. It gives instruction to students of both
sexes, largely on the same lines, sexes, largely on the same lines, except that th
girl students take certain subjects pertaining to household science, and omit a very limited num ber of subjects pursued by the boys, more particularly those which are more or less concerned with outdoor manual labor. Those who comculture, after a post-graduate course at the same, may enter the college of agriculure and grad uate from it at the end of four years.
The regular course of study at the school o
agriculture covers three years. It is designed to agriculture covers three years. It is designed to
give an education that will fit the possessor fo
the intelligent pursuit of practical agriculture in the intelligent pursuit of practical agriculture in
its various phases. The terms for each year ex-
tend from the beginning of October to the end of lend from the beginning of October to the end of
March. which is designed to prepare the students for
practical work in creameries and cheese factories Aractical work in creameries and cheese factories.
short course for farmers covers eight weaks, which anyone of sufficient age may take. There
is also a two weeks course in live-stock judging is also a two weeks' course in live-stack judging.
The attendance of students in the regular course last winter was 530 . Ints all the courses of study
it was approximately 794 . The college of agriculture is more particularly designed to prepare
the students for teaching agriculture or for suing the study of the same along scientific lines As it virtually calls for ane along scientific lines
from the time of entering the schourse from the time of entering the school of agricul-
ture, the number, who have taken this course has
not been very large, nor is it likely at least for many years to come.
The first county school of agriculture and do
mestic economy in anerico wos mestic economy in America was opened at Wau
sau, Marathon County, Wisconsin, October 6th
1902 . A second school of the same clacs wa opened at second school of the same class was
Menomonee,
somewhat $\begin{gathered}\text { Dunn } \\ \text { later. County, }\end{gathered}$
The
 schools was authorized by the Legisla
ture of 1901. The law of 1901 provided
for State aid to the extent of over half the an nual instructional expense, but neither school was
to receive to receive more than $\$ 2,500$ a year from the
State. This law was amended in 1903, so as
to incrense the to increase the aid given from the State treasury
to $\$ 4,000$ a year to each school, by way maintenance. The county in which the school of
located bears 1ocated bears a part of the expense
Provision is
more counties in the establishment of such schools, and for the apportionment of the cost.
The course of study is outlined by law. Not
than three arres The course of study is outlined by law. Not less
than three acres of land are required for illustra-
tion work. tion work. The school is free to all students
from the counties which support it. The State from the counties which support it. The State
superintencient is supervisor and instructor, of the
schools, and the Dean of the Cols ture may advise as to the courses of study and
the qualifications of teachers the qualifications of teachers. Provision has of four, such schools within the State. Each school
is undor the is under the control of a County School Board, elected from time to time. Schools are open May year from October 1st to near the end of
Mists of throlty of the school at Wausau consists of three persons, one in charge in the the school one in charge of the instruction in
domestic economy, and instruction of manual training. These of the sisted by instructors, and all instructors teach
academic subjects.
course of study for boys.
First Year.


Third Term.-Plant Life, d. 5; Vegetable. Flowel Lithrary Reading, 2. d. 5 : Poultry, d. 3: Fngeli ish, 5 .
Second Year.
 Second Term.-Animal Husbandry, d. 5 : Rural Archi-
teeture, d. $5: \mathrm{U}$. S. History and Civil Governmunt, 5
ibrary Rending I.ibrary Reading. 5.
Third Term. Antmal Hushandry, d. 5: Vegetable,
Flower and Frutt Gardening, d. 5 : Economics of Agri-

## COURSE OF STUDY•FOR GIRLS

First Year.
$\begin{gathered}\text { First } \\ \text { Herm.-Cooking and Sewing, d. } 5 \text {; }\end{gathered}$
Hecone, $5 ;$ English, 5 , Business Arithmetic,
Serm. - Cooking and Sewing, d.

$\qquad$
First Term,-Cooking and Sewing, d. 5 ; Laundry
3; U. S. Mistory 5 . Library Reading 5. Socond Term. - Cooking and Sewing, d. 5; Chemistry
Foods, 5 ; U. S. History and Civil Governent Library Reading, 5. Nursing Term.-Cooking and Millinery, d. 3: Home Fruit Gardening, d. 5 ; Library Reading, 5 . der week ; d. stgnifies double periods. The course of study cannot, of course be most practical that has ever come under the Wausau school in 1894 was 75 , and the enrollment in 1905 is still larger. Nearly all the
students come from Marathon County and from students come from Marathon County and from
rural homes. Prof. R. B. Johns, the princinal rural homes. Prof. R. B. Johns, the principal,
is enthusiastic over the outlook for the future of the schiool.
The question of introducing the study of agriculture into the district schools of Minnesota has been considerably agitated, and a few years ago tentative way. But little progress, however,
has been made in this direction. The successful has been made in this direction. The successful introduction of this branch into the common or
district schools has yet to be achieced in this country, nor is it likely to be achieved until the
teachers in these schools are iequired to pass an examination
agriculture. f the branches of
THOS. SHAW

Organization for Purchasing Supplies.

## their two general classes-thoose for buying and those for

 selling on the farmers' behalf- 1 am discussing them in the order of their present importance. Hence, before dealing with further problems of the disposal of prodpurchase of supplies by co-operative organization. farmers buy annually, exclusively for use in their farm millios, dollars $\$ 20,000,000$. They imported over three animal foods (for finishing) last year. In 1901 (year over $\$ 12,000,000$ worth of similar own manufacturers these binder twine, power machinery cors. Add to other widely-used articles, and $\$ 20,000,000$ will hardly cover the total. It is worth considering whether the half-million farmers who spend this necessary and enorcurn. it clear to any busines bet they are not Anyone knows the difference between buying retail and buying wholesale. By the present system the farmerssuipport an army of agents, and pay large profits to suipport an army of agents, and pay large profits to
merchants as well as to manufacturers. We may divide that twenty millions into two parts: We may divide necessary costs of manufacture, plus a reasonable profit,
over all other capital charges, of say Over all other capital charges, or, say, $3 \%$, which part
will amount to $\$ 12,000,000$ at most, the part, $\$ 8,000,000$, is now paid for costs of selling, risks co-operations due to present conditions of industry that er than is fair to eliminate, and profits that are great producers. That $\$ 8,000,000$ can be saved hy wealth ciples argandzation of the farmers, according to a the prinwould mean shown to be absolutely proven. That counts of farmers, or that much applied the bank acCarns mortgages, or as extra capital on the farms. ing. estimated at $40 \%$ of the amount now a large sav-
him look anded, let him look at the evidences. At present, as business men
know, the usual or average agent's commission is
less than 25\% less than $25 \%$ of the total cont's commission is not
saved by buying co-operatively this would be ing. such as advertising, travellers or erpenses of sell-
office stafl necosal agents office stafl necessary to present system, amount at least
to $10 \%$ of the total. "Risks of capital," and lontion to $10 \%$ of the total. "Risks of capital," and profits
above what is necessary for the farmers to pay, will
casily amour easily amount to the remaining $5 \%$. Recollect the great
wealth of the Masseys, the McCormicks, and others, kathered as profits on dealings with farmers. Recollect
the dividends paid by the Farmerg ainounting -as I 1 ,elieve the Farmers' BAnder Twine Co.
invested capital one year's dividend! If a feginning, and to $100 \%$ in
farmers' interest and wars concern which exists in the farmers' interest and wars ancern which exists in the
robber trusts will take such profits and out the the farmerg
$\qquad$ And the remedy? Co-operation - the kind of co
operation these articles have been advocating is the
remedy. That is, all the farmens
manufacture such artucles. Notice: It is neither necessary nor advisabie for such a body of united farmers or any number ol them nocessary for them to buy thus cooperatively. The plant already manufacturing for the farmers is sufficient for that purpose. It is quite enough to bring the manufacturers to terms. And they farmers compel them, and that can be done only by united action.
How to organize? That has already been outlined in a general way. Seven or more farmers organize themselves into, an association for purchasing supplies
for the members ; directors are elected to carry on the business of the association; rules are framed and
adopted governing the members and the directors, and the association and its rules are registered as any
notary will prescribe. The important points to connotary will prescribe.
sider in organizing are

1. Have the object of the association clearly defined: To make purchases of any kind whatever tor the vesting and other machinery and implements, twime, zart, ASSOCIATION, on pain of a fine or expulsion.
2. Have annual, or, at least, frequent changes of directors, to prevent certain difficulties that might arise, and to maintain interest of all members, as well as to
famillarize them all in turn with the workings of cooperative business.
3. Empower directors to act freely in negotiations and all transactions on behalf of members, subject to certain conditions, as
kinds of machinery, otc.
4. See that rules strictly maintain continued loyalty of every member who remains a member; and that said rules compel at least 12 months' determ
unnued co-dperative action as commenced.
5. Rules should also insist on cash dealings by members ; that is, ". cash or its equivalent," so as to
prevent embarrassment of directors in making purchases or members.
6. Arrangements should be provided for federating with other SIMILAR ASSOCIATIONS.
7 . Profits of business, if any, should be paid on ledger accounts and not on shares of assuciation Other rules should be adopted that are not necessary o detail here, but.
ontinued success.
Such a co-operative association can do profitable Such a co-operative assochation can da proturers
lusinuss at once, and by dealing with manufactures
lirect can save all agents' commissions on everything lirect can save all agents commissions on everse, the
lought. The larger its membership, of course more powerful and economical its operations will be And when federated with others, its buying capacity
bring increased, its influence on the manufacturers will ring increased, its influence on the manufacturers wall he farmers of Canada are members of the federated
assoriations, the savings effected could be named in associations, the savings effected cond
millions of dollars. It will be seen at once that this is a totally differ-
int remedy from that offered by such conoerns as the Farmers' Binder Twine Company, the Frarmers' Co
ciorative Harvesting Machine Co., etc., both because it serative Harvesting Machine Co., etc., by all together is not a plan to manufacture but a buy an cogetal, sut buyors of farm supplies only, and to benefit all
such buyers as wish to be benefited, not merely a fow such buyers as wish to be benefited, not merely a few
Especial individuals among the many. Estimable as the special individuals among the many.
companies named doubtless are, they are not the kind it co-peration we want, and can no
ve can and must do for ourselves.
It will be seen also that such an organization is not a repetition of the Grangers or the defunct Patrons of
Industry, with their omnivorous capacity for undertak ing everything at a gulp, and accomplishing less than
they fail in accomplishing. Those enthusiastic and loosely-organized movements failed to gain their objects because they had little to were foredoomed to failure It cannot be too strongly emphasized that provision must be made and strictly enforced, binding those and
join any co-operative organization to steady loyalty and that any organization, must have just one special ob
C. Once the corn and roots are planted and potato beetle.

## Do You Want a Situation?

 widh one or cavada's leading farmers TR STOCKMEN? THEY ALL READ THE . FARMER'S advocate and home maga ZINE." AN ADVERTISEMENT IN OUR " want and for sale " Column will not ESCAPE TIEEIR ATTENTION. SOME OF THEM WILL WANT YOU. TRY IT. SEE RATES UNDER ADS: THE FARMER'S ADVO CATE, LONDON, ONT
## HORSES

## Treatment of Newborn Foals.

$\qquad$ spondent, "Whip ," writes : Inatice that he recom mends exactly what, in my article on constipation in foal, page 578, I warn breeders against, viz., giving foal, page 578 , I warn breeders against, viz., giving
purgatives to newly-born foals. He recommends a cupful of meited fresh butter, and says that both he and his father have always done this, and never had a foal die. I must say that they have been particularly fortunate, and in my opinion they must have bred very few. The practice is irrational, and in many cases harmful, though not in all cases necessarily fatal. The dose in any case is too large; a colt just born cannot take a cupful of anything without danger. As I stated
in my article on "Constipation in Foals," the troubln in my article on "Constipation in Foals, the troubla
usually exists in the rectum. The meconium (contents of the intestines at blrth) is almost black, and in lumps canos the foal has not sufficient strength to expel them Now, the administration of medicine by the mouth has no effect upon the contents of the rectum. I hnd lumps with a spioon-billed director, and they were so hard that when thrown on the floor they would make o noise like a stone, and the impact not alter their shape
and they were so large that the colt could not void and they were so large that the colt could not vold them. I had to operate several times, and also used
injections. The foal was 48 hours old belore the last was removed, and it voided yellow excrement. This, of course, was an extreme case, but there are many
somewhat simillar. This colt is dofng well now, but


Stuntney Pharaoh (imp.) -209-C. H. S. B. Hackney stallion. Winner of first at Portage la Prairie, 1904. Owned by there is not the slightest doubt, if it had been glven Watter or other laxatives, instead or lacal treatment,
wot have survived. Where the meconium can be passed spontaneously the administration of purgatives
is not necessarily serious, but it is uncalled for, and when the colt has not sufficlent strength to pass the
meconium, or when the lumps are too large, the praced. I may say that I have had great experisnce in these matters, and have known many colts to die from
treatment as recommended by $\mathbb{D}$. W., and the fact that he has practiced it without untoward results is due to his colts having $\begin{aligned} & \text { meconium without direct interlerence, and it does not }\end{aligned}$ meconium without direct interlerence,
establish the fact that his practice is a

## Best Kind of Horses to Raise

 om the encouraging remarks that I have made about riding and breeding the saddle horse, that I am of class of animal. I am not of that opinion at wll. For I am perfectly cunvinced that the draft horse is the most profitable animal to breed for the average farmer,for the following reason: The breeding of them is more for the following reason
easily managed, the brood mares do not require put-
ling one aide when they are breeding; the young are Ung on one sido when they are breeding; the young are
fit to be put to work much earlier, thereby belng considerable less expense to raise ; and, lastly, they can always be sold advantageously if the breeder
betweires it,
Nown the ages of two and three years." - -Toronto their future supplles.
". Two or three

## Give the Stallion a Chance

It is well known to practical horsemen that the responibinty for a small foal crop lies upo Some time ago we published in this paper the result of scientific investigations into this unfortun-
ate state of affairs, and drew certain deductions therefrom, which, if observed, would be of material benefit to horse-breeders. The value of the advice was recognized by several of our con-
temporaries, who have reproduced the article Cemporaries, who have reproduced the article, or, without giving this paper credit for it. The investigation showed, among other things, that the critical period was at the 7 th week after being
served. The following rules were first published by the "Farmer's Advocate" in March 1st issue, 1902 , and are worthy of note to-day

Mares that have been indoors during the
, winter, and are to run at grass during the summer, should be acclimated is well understood by horsemen, who generally follow the above suiggestion,
which provides for the mares getting accustomed which provides for the mares get ting accustomed
to the changes in food, temperature and sur to the changes in food, temperature and surhorsemen that digestive troubles are quite serious in their effects on the pregnant female; the effects
of purgatives, such as aloes, boing ospecially of purgatives, such as aloes, boing especially
harmful. 2. When any, signs of being in season are
detected in the mare, she should be removed from detected in the mare, she should be removed from mares believed to be already with foal.
3. Mares, more especially excitable should be served in the evenening, and kept onestat up apart from other mares and geldings over
night, and should, until all signs of heat have night, and should, until all signs of heat have
disappeared, be kept from any chance of teasing disappeared, be kept from any chance of teasing
by other horses. In the case of a valuable mare, s. In the case of a valuable mare, a compotent veterinarian to tide
over the excitement periods when a sedative, both constitutional (such as chloral of opium) ind
uterine (as black haw uterine (as black haw, one-half ounce daily of the fuld extract be prescribed. mare, when bred, hould be carofully watched from week to week, and every ninth or cal period (end of the seventh
week) be passed. week, be passed. poor condition
5. Mares in por
should not be bred, but be gatten should not be bred, but be gatten
into condition by the addition of grain (oate crushed, bran and oil
meal, or crushed flaxseed) to the maily
6. For at at least two months 6. For at least two months
after service the mares should be
neither excited, neither excited, overheated nor
chilled, neither overfed nor stinted from their usual allowance, and drugging, except under, professionsternly deprecated.
need scientific reason for the
nare at the period tioned is, that at that time the
the connection between the mare and
the embryo is the weakest, because a change is thaking place. The
embryo is ceasing to be nourished by the yolk sac of the ovum (egg), and is beginning to ret ts sustenance from blood vessels forming in the membranes (later known as the cleaning or after-
birtli). These periods necessarily call for care on the part of the owner of the mare-at the 8rd and 6th week alter a fruitful service-because the ovaries, or egg-producing organs, have not yet
been entirely quited down, and again at the end been entirely quieted down, and again at the
of the 7 th week, for reasons as given above.

## Scarcity of Heavy Draft Horses.

Tho scarcity of heory dratt horema if again caudng much concern awong dealers. Proprietors of the small
stables where stock is bought from weelk to week as the trade demands, are finding it very dimeult to obtain first-class drafters, and even the largest dealers, who contract for the plck of horses on the breeding amy
feeding farms far in advance of their readiness for marketing, are constantly forced to pay hlgher prices for
the direction of highga are at present operating in One te the fact that contractors who work thousends and thousands of horses are using much heavier toams
than they used a few years ago. They have found that than they usod a few years ago. They have found that
it pays to handle big loads, and their trucks are now built to carry two and a half yards of earth, where
they used to carry they used to carry one yard and a quartor. To do
this work they require bigger horsees than before. Formerly contractors bought horees under fourtaen
hundred pounds for their work, but they wont look at anything under fifteen hundred pounds now, and moot of anything under firten hundred pounds now, and moot of
them want animals welghing around sixteen humdred
pounds and seventeen hundred pounds. It takee
tremendous number of big horses to supply this new de-
mand, and the worst of it is the breeders are not rais

## Castration.

Upinions differ considerably as to the most
Unite desirable age at which to castrate colts. A large
percentage of colts are operated upon at one year
old, while others are oven three years of age, with the idea of getting greater development of crest and a more masculine appearance, especially of head and neck. veloped certainly has this tendency, and when this characteristic is desired it can be obtained in this way, but to many horsemen this apgearing should resemble a mare in general characteristics. I agree with the latter opinion, and consider a gelding and a mare should hitch well to-
gether, and, if mated in other, particulars, there should be no marked difference in general phys ognomy, such as is noticed if the gelding has re anined erure until he has acquired the masculine ling that many of the competitors, and in many cases prizewinners, in the heavy-harness classes are stags. Trotting-bred horses that have and not being fast enough for, the purposes ior for which they were bred, and having good action, are castrated, docked, manes pulled, shod, and driven to produce action rather than speed.
Some of these fellows make high-class heavyharness horses, and in my opinion, the principal objection to them is their masculine appearance. When a pair of chem are hitched ogether this but if one be hitched with a mare or ordinary gelding, the contrast is striking, and they canno be said to be a team. The older a colt or hors limited extent, the greater his
greater the loss should results be untoward the iatal. Castration is a more serious operation
than is generally considered. It cannot be perthan is generally considered. It cannot be per-
formed without severing important organs the most skillful operation, performed under th most favorable circumstances, is liable to ionowed by untoward results. Colts appear to
be more liable to unfavorable results than the young of other classes of slock, but this is largely due to the fact that the young of cattle, sheep or at most, a few weeks oli, when lew days, the danger is less. Weeks old, when, as stated,
In my opinion, the better time to castrate colts, provided, of course, the
animal is strong and healthy and there abnormality, as hernia or the absence of one or to three weeks of age. At ihis age no special means need be taken to prevent hemorrhage, any
more than in a calf: the foal is sucking dam and usually on grass, and the operation ha practically no effect on his general health. of age the operation is not attended with some risk frove fatal, the loss is mucks, and if it is should animal were one or two years old, or older. The
average farmer castrates his own colver average farmer castrates his own calves, pigs and
lambs, and neets with few losses, but if he al lowed them to reach the age of onc, two or three years before castration, and exercised the same
carelessness that he usually does, he would find his losses would be much greacter. By careless
ness, 1 mean a total disregard to antisceptil measures. As a rult, the operation is performed
with a knife carricd in the pocket and used for heneral purposes, sharpened, no doubt, just before or the hands or scrotum. Neither thee hands
nor instruments are even washed; the operaperfect liberty to act without assistance or inwed
pernce. The percentage of erene. The percentage of losses, even unden
hose conditions, in quite young animals, is quite In animals of preater age it would te differvent astration of any animal, especially colts. Modthe better timen ; or, if we wish to operate in
tall, we should select October or the first half November. The animal to he oprated upon be taken to not oierate upon one suffercing from
any respiratory disease, as strangles or influenza, or upon one out of a stalle in which such dis-
eases exist, as while the colt may not show any ymptoms, the germs may be in the constitution, ion. and it is is notop the dised that in after the operaually give trouble. I consider it wi-e for the pecial knowledge of or skill
other purpose, and they and the hands of the
operalor should be thoroughty disinfected with
a guod disinfectant. Probably none better than a good disinfectant. Probably none better than
a four- or five-percent. solution of carbolic acid. A five-per-cent. solution of phenyle or Zenoleun
does very well. The animal to be operated on does very well. The animal to be operated o
should be cast and firmaly secured. Some oferat with the patient standing, but I do not approve of that, unless there is some special reason why he shouid not be thrown. The operator has no sures. As an acrobatic feat, this mode of operation may be said to be a success, but as a surgical many. If a sucking colt, no ropes are needed a couple of assistants can hold him but, if year old, or older, he must be secured with ropes The hands of the operator, must now be disinsolution. $\Lambda$ testicle is grasped between the thumb and linger and pressed tightly against the scrotum, and a free incision made (care testicle pops out. If a foal, the cord can bo severed with a scraping motion of the knife, ani there will be no danger of bleeding. In this case cut the non-vaccular portion of the cord, and
scrape the temainder. If a yearling, or over the cord should be severed with an emasculator vascular portion of the cord is first sedered the nonthe clams, having been disinfected are applied to the remainder, and the cord cut off. The other testicle is removed in the same way. If they can be enlarged now, a little of the anti septic poured into cach wound, and the colt al-
lowed to rise. If clams have been used, ha should be kept quiet in a clean stall (it is im lated) for about twenty-four hours, and then the clams removed. If the instruments named have been used, he may be allowed to run at grass,
but should not te left out at nights or in cold or wet weather for about ten davs after the opera tion. The scrotum should be examined the day after the operation, and if the lips of the wounds or serum, the finger should be disinfected with thod solution, the adhesions broken down, and any clotted blood that may be present removed from
the scrotum. In my article on "Diarrhca in Foals" in your issue of May 41 h , paage 660 , in Foals" in pears. It will be noticed that the 7 th and 8 th
lines from the bottorm of the lines from the bottom of the column are a repe-
tition. The sentence should read. ."Tha shize of tincture of opium (laudanum) in a litt,
of tre dam's milk, etc."


## Our Scottish Letter.

great Ayrshine shows miscellaneous composition. Th.
connection therewith quite a recently been held. and in
number of notewort
$\qquad$
 mosinnd here, and the stock was recruited from time was ime to excellent purpose by purchases from this side
Ir. Hunter, the manager, knew his business well, and
arefully selectid the kind of curefully selected the kind of Ayrshires for milk firmt This year the milk classes at our great west connt-
shows have leen well filled, and at Ayrshire wals
angthened linht hy. T. U. Li.indsay, Aitkenbrae, Monkton, and W.I. Howie, Burnhouses. For once judges : had Mry "ourage to oppose the once popular idea, und Mr. I ind-
say's
thand daranty surts were preferred. The lest of







$\qquad$

is very safe in his hands. He knows how
wuch stock, and this is one-half the battla
Chereat interest is being taken at presont amon
chesemakers in an experiment carricd out by an Kobb, of the West of Scotland, on the temperature a
which the rennet should be put into the milk nakers ,erature should be high rather than low, but Mr Robb's results seem to deciare in favor of the lowe emperature. This hus been chatienged by Mr. Andrew armers against being misled by Mr. Robb's results warn. s understood here that Canadian makers favor the ower rather than the higher temperature. Another ex the effect of butter-fat as a determining factor ing quantity of milk to be used in cheesemaking. The or a high standard of butter-fat in cheese the necessity vell as in sweet milk or butter dairies. Mr. Roht romises to be an invaluable addition to the stalf of
ur college here. His experiments are ar as conducted to date, they teach solid lossons. Milk in Scotland. The Highland Society they used to be sons conducted testing work in numerous dairies in th
West and South-west of Scolland. The resulte are narkable enough, and show the necessity for weoding
out in many byres where profitess cows Buyers from Canada and Sweden, and visits to Denmark, have all had their value in teaching Scots farmers the educative arency has heen the far the most influential ourt, under the new milk standard regulations recording of a few convictions against men who have or keeping cows with records of quality the necessity nantity. There is a records of quality, as well as shef with Scottish farmers, but a fow turns in the hings as milk records Clydesdales are having plenty recognition in days, and prices have been fairly remunerative. At ounger cloce show there was a strong exhibition, and the The family prize for the five best vearlingy well filled. Messrs. A. \& W. Montgomery's Everlasting won by how three years in succession. He has made A. S are being reproduced in his progeny. The male cham gomery's big three-venreoth to Messrs. A. \& W. Mon und at Ayr the same owners took the crest, by Acme.
with Baron Fyvie., with Baron Fyvie, a twoyear-old colt, by Baron's
Pride, which arined first pires this year at Castle-
Douglas,
$\qquad$

Milly, by Hiawatha, and owned by Sir John Stirling
Maxwell, Bart., M.P. Menowah, and, curiously (nough, Sir John won simite honors in the previous year with another of the same sire, and named Minnebaha. Menowah is a beauty, with
an oxtra good hind leg. The iemale champion at Ayr
was Mr. Wm. Dark's Heserve at Kilmarnock.
Hackney and driving horses are now l,eing bred great perfection in Scotland. The exhibition in these
classing weck two very important sales have lieen held th Morton sold 37 ponies and horses, at an average
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$\qquad$
$\qquad$ high-priced ones at the sal, , by the stud horse, Ruby
1342 Ruby Flanee was bought by a London wien and certainly she is an amazing goer, white at the same
time her shapes and same sire, and named Refleetta 13.3, and five vears the

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Making Shipping Crates.


Dehorning Calves.

## Believes in Dehorning.

$\qquad$ article, in which the writer strongly condemned which he considered should be placed in the cate gory of crime.
I quite agree with the writer in preserving the ornamental tentacles on the head of cattle, far one purpose only-the show-ring-but feel that
judges would confine their attention solely to useful characteristics of an animal, without considering horns, it would be much better to have As for farmers raising a breed of catule which are hornless, 1 doubt whether one farmer; in a
thousand would be sat isfied with that solution of the trouble. Again, the great majority of farmers are getting new cattle into their herds from
time to time. Now, what is to the done with the new ones that have homs, when the rest of
the herd have no horns? In my estimation, in justice to the horniess, only one thing can be 1 have a dehorner, with which during the past thousand head of cattle. I never knew of one have not a mechanically-trained eye, I venture to say that, instead of leaving three inches of a
stump on one side, and cutting off three inches of he anmal's head on the other, as the average result, the stubs of horn never vary in length as much as a quarter of an ly takin as never having had horns. considered dehorning a bull very effectual when
the animal had become cross, saying that he noticed that a bull was very reluctant about
making an attack without his weapons, as he I am not advocating torture to dumb animals. quite agree with the use of potash on the ani-

Against Dehorning.


In your issue of April 13 th appeared an item against dehorning. I know a few men who do not be from ten to fifteen cents fier cwt. less for their cattle and one cannot blame the buyers for making this re duction, when one steps into the stock-yards and sees young cattle being bossed and ripped by the largor and stronger ones with horns; and many hiulls become man. And anders, and ir not secured will ntack a han, in which case, if the bull has horns on, the ma borned his temper would be much subdued.
Of course there are many botches made in dehorning as in other operations, by letting an inexperienced or or look where he cuts, and cannot tell if one horn is Wo or three inches longer than the other, or cuts off a piece at a time so it will not hurt so much. Putting
potash on the horns of calves, if it is botched give them great misery, sometimes causing them to become with clipuers the best way to take the horns o@ is around the base a fine saw. If a cord is well tightened operation is done right, there will be no great loss of blood. As to breeding hornless cattle, it would be all
right in many right in many cases, but most of the farmers in this ter in many respects than the hornless ones. Considering all things, I don't think hornless onses. Oonsiderwould blame the Government for taking steps toward making dehorning compulsory.
Kunt

## The Bull.

With a very large percentage of farmers the in for his anate with their cows does not come The danger in caring for and handling a bull of any age is very considerable, increasing with age, and this, perhaps, accounts for so many, after having been used for a shurt time as stock-get-
ters, being turned off to the butcher before they have come to maturity. With so general use of immature and ill-bred sires, what wonder, that the average Canadian steer is not what the best
markets call for? Breeding exclusively from immature bulls is liable to wreck the constitution of the herds of the country, despite our countless
natural advantages. A bull will grow and denatural advantages. A bull will grow and de-
velop both bone and muscle until four or five years of age, and what argument can be advanced to thow that he is mature as long as he is growing; and further, how can we expect stamina
and vigor from immature animals, in many cases mere calves? four years of age, just when at his best as a ber of useful sircs, and gives room for the miniature and the scrub, and, in either case, degeneracy and inferiority can hardly be avoided. We herds, unrivalled climate, and men of intelligence, expericnce and wealth, be able to maintain our herds without annual trips to the motherlund, usen win in al
In the lirst place, suitable quarters for the
bull should be provided, and having this, dehorn bull should be provided, and having this, dehorn
the gentleman, thus minimizing the riski to the attendant. then he should be kept until six or
cight ears. of age if he proves to give satiefaction as a sire: not necessarily kept by any one man, as a sire: not necessarily kept by any one man,
l,ut exchange could be made when advisable to
avoid inbreeding. He should have a good reomy avoid inbreeding. He should have a good, roomy
box for his special use, with open door to a paddox or his special use, with open door to a pad-
dock sulficiently large to supply ample exercise dock sulficiently large to supply ample exercise
and pasturage in summer. This should be sur-
rounded with a strong woven wire fance that ho rounded with a strong, woven wire fence, that he away with the system of running the bull with away with the system of running the hull with
the cows, so abominably objcctionable, as well
is dangerous and inadvisable for many reasons as dangerous and inadvisable for many reasons. In his box should be a pulley in the upper part
of one corner. Through this pulley pass a long
ion with crat. pope with snap on end. Kerp snap in convenient
place, and when the bull is wanted for service take hold of his ring (he will soon learn to give
ing to attendant's hand) and fasten the rope. Then bring him up close to puttey tw means of rope. Aow hring in cow and tie her: this rone, slackremoved, th in unfenten, alld seccure entil
placo ready for next use. In this way is generally a most troubloseme and som What dancerous task, accompanied 1 y a lot of
ncerless racine and , xcitement, can le ouicklv, foly ad satisfactorily ncecmmit shad Maving


More Good than All Others.
$\qquad$

## FARM.

What Has the Moon to do with the Weather?
Sir,--In reply to your letter, I would say that Metoorologists in almost every country of Europe in Conado and the United States, have taluulated records for the special purpose of dotermining ${ }^{\text {a }}$
connection between lunar changes and the weath er, and I believe that I may safely affirm that not one of them have been able to trace any con
nection whatever. It has been proved that there nection whatever. It has been proved that there
are lunar tides of the atmosphere, but thy
are so are lunar tides of the atmosphere, but they
are so exceedingly small that any influence they
may exert on the weather scems to be totally arey ex
maxted.
masked
That the moon's phases, etc., can have any eflect on the sowing of grain, is quite inconceiv-
able, and is, I am sure, a complete fallacy, and not worth being considered for a moment

Meteorological Offce, Toronto, ont

## The Moon and Weather Forccasts.

## Whether it be the indefiniteness and mystery

 pallor of moonlit night, or the weird, sugWhich mortala call the moon,
which
night ", ${ }^{\text {Kas }}$ a kept clustered about the "orb of of
$a$ ago have been relegated to the past with the kelpies and witches, banshoess and hobgoblins of
the Dark Ages, it would be hard to say. The the Dark Ages, it would be hard to say. The
fact remains, that even yet, among people otherfact remains, that even yet, anong people other-
wise of fair education and good common sense, there are cherished a number of "beliefs" in re-
tard to the moon which are so strong in some cases as to provide veritable rules for the carryng out of busines . or instan er men certain quarter of the moon; there are others again, who are quite cortain that if the new noon lies on its back, so as to hold water, or
or the Indian to hang his powder-horn on without slipping off, here will be a season of dry weather, wet weather being expected if the
verge in observed.
verse is observed.
Now, with the object of being able to present our readers with the decision of real authorities
on the subject, we have goue to some trouble to on the subject, we have gone to some trouble to lind out the opinions of the most eminent scien-
tists of the day. As a result, we find from ex haustive matter furnished by the Weather, Bureau at Washington, that these men are undivided in stating that the moon has so slight an effect on
our atmospheric conditions as to be practically of our atmospheric conditions as to be practically of
little importance.
The stun it is, and neither the moon nor the stars, which determines our weather. The influence of the moon in potaty
planting, weed-killing, soap-making, etc. is, course, absurd.
In regard to long-rango weather forecasts,
also, these scientists as are one in declaring that, as Prof. Pernter, Vienna, has said, "We liave at present, unfortunately, no method by which
such forecasts of the weather can, with absolute certainty, be made.
phenomena which
perhafes, precede changes in the weather, hours observation of these, local weather may often be
fairly well predicted for short periods, say from one day to the next. Among these e" signs of a mountain summit with a "cap," in some localities, almost invariably signifies storm o
rain ; watery halo about the moon often in second light covering of clouds is seen abov
them, the chances are that them, the chances are that the weather will re main bad; a slow breaking up of the clouds us-
ually indicates fine weather, etc. These rules
 gauging what a winter will be like by the actions
of bircs, animals, plants, etc., these are looked upon as absurditie
scientific investigations are say that exhaustive view to arriving at some definite cluce wh whic
weather conditions may be foretold for thich weather conditions may be foretold for longer
periods. In all probability no relialle method may ever be discovered. In the meantime how-
ever, it may be well ta wait with patience, and give Hicks and all such like a wide berth. The daily "probabilities", issucd from the
meteorological office and published in the news. papers, or posted up at telegraph offices, are
based on accurate observations, taken throughout based on accurate observations, taken throughout
the country, as to temperature, barometer $\underset{\substack{\text { velocty } \\ \text { reliabl }}}{\text { and }}$

[^0]
## Corn Cultivation in Kent Co

The soil of this district would, generally
, 1 , spaking, be called a loam. The greater the
amount of clay in the soil. the more important it is that the land should be fall plowed. If plowed in the spring, it should not be plowed too
wet, and should be harrowed soon after plowing Wet, and should be harrowed soon after We find that the greater yield of corn is ob-
tained by planting in kills, and we have followed that method of planting to a great extent. Cor planted in drills will yield a larger amoun will often yield a a fairly large amount of corn In hills three and a half feet apart each way has given good results, and drills about th eame widtk apart can be obtained by arranging
the drill so that only certain tubes will be sowing For hill-planting, a peck of good corn is
enough for an acre, and 1 think that very little over a peck would bo suffcient when sown in drills, though it is difficult to get the seed just
the proper thickness with the ordinary seed the
drill. As a prevention against the crows, we have
never found anything better than three or four never found anything better than three or four
dead crows kung up in difierent parts of the
 the early spring, and if they are preserved in
some cool, airy place, they will be in good con some cool airy place, they at corn-planting time
dition for hanging up at
Place a stake six or, eight feet long in the ground Place a stake six or oight feet long in the ground
at a slight angle, and tie the crow to the top of the stake by means of a cord rastened to the
legs. Just before the corn is slightly up it is a good plan to go through with a light harrow or a
weeder.
This will destroy a great many weeds weeder. This will destroy a great many weeds,
and aiso keep the ground from becoming too After the corn is up cultivation is continued with an ordinary two-horse cultivator, such as
the "Gale." The cultivation should be fully three inches deep at first, trut as the roots of the corn spread, slightly shallower cultivation is neeessary, to get the best results. There is
little danger of getting throumb the corn to often with the cultivator, but frequently it is impossible to get through it more than three or
four times. If possiblo corn she four times. If possible, corn should be worked
after every rain, in order to destroy the crust. Corn may be cultivated as long ns it is cossible to get through without injuring the plants. It Would of course, be possible to
later by using a one-horse scuffer
There are three main objects to be gained by nake plant food more available, and to help re tain the soil moisture. When it is possible to
obtain good help at any reasonable cost, handhocin' is practiced, the corn being gone through, usually, not more than once
It is difficult to say int
It is difficult to say just how much each day's somewhat on the condition of the soil, and also apon the weather conditions. A man and a team should cultivate about four acres a day, corn by at least five bushels per acree making a total inceasest of twenty bushels, which mating a
thean, perhaps, about ten dollars for the day's ullifvation. It is inpportant in corn culture to select the
ssed in the fall, and kerp it in a dry place dure ing the winter, so that when next spring comes

## Ten to Fifteen Dollars a Day Cultivating

 Corn.In 1.ssex County the best corn land is clay
loam. The seed is planted May 10th to tune Lst, in hills 3 feet 6 inches to 3 feet 8 inches in a each way and only threo grains are planted
in helled corn per acre
If crows are troublesome, a grood plan is to iust as the corn is coming ur Th a couple o half a dozen dead crows on the fold which shim he left there, and all uneaten cggs destroyed. Th rest of the crows will always Aly very high when hassing over that field. appears it should be mplement is sometimes used again when the orn is four inches himh. Atter that the tweten days until the stalks begin 1o brak. In this
manner of cullivation hand-hocing is entirely done away with. The obict of cultivation in
wot scasons is to kill weeds, and in dry ssasons
 corn-growers that ten to fitten dollars can he
added to the value of the corn crop on cach day Nent cultivating.
Fssex Con
O

## Corn Culture on Clay Soil.

Regarding corn cultivation, I beg to sulmit a brief outline of our method. As the nature of
our soil is clay, we millow the land in the fall, for we find where spring-plowed, the clav
bakes to such an extent trat it is bakes to such an extent that it is very difficult
indeed to prepare a good seedtbed and to retain indeed to prepare a good sedatbed and to retain
the moisture in the soil. The manure is hauled to the field and syread during the winter, so that
to sool as seeding is linished the corn croumd may be immediately tilled, the aim being to conserve soil moisture, cause weed seeds to germinate, and kill all grass and weds that may at is planted in drills 40 inches arart, at the cor of one peck to the acre for crib corn, and onc third bushel for silage corn. We find that where
the drills are 40 inches apart we are able to the drills are 40 inches apart. we are able
plant as much seed to the acre and yet give plant as much seed to the acre and ye give each
plant tore $1:$ sht antil air than when the drills s re further apart and the plants are closer together in the row. As soon as the plants appear
ground is harrowed with a light dressing-harrol In a few days the cultivator is put to work set deep at first, gradually getting more shallow as the season advances. well formed. The on inued until the ears are well formed. The ob-
ject of all cultivation is (1) to conserve soil ject of al cultivation is (1) conserve son will he a failure; (2) to kill weeds; (3) ti) keep the crust of the soil broken so that the air
can circulate in the soil, and thus unlock unavailable plant food, and render it available to the plants as they require it. With such cultivation, and by selecting from the previous year's
crop the very best ears for seed, we have found rop the very best ears for seed, we have found
no trouble in raising from 100 to 125 bushels of ear corn, even in the poorest corn seasons.
Elgin Co., Ont.
FRANK M. SILCOX.

Corn Culture on a Gravelly Soil.
The land which I devote to corn-growing is

ach inave three fields of about twenty acres otation with barley and clover, plowing up oler sord each year-the heavier part of the hantin the rall, and the lighter part just befory ing manured the sod ath during wor the plowed part in the spring with manure
spraader, to ensure evenness and filleness of disI sow with drill, because drilling is more
casily and quickly done in the rush of spring work, and rows are handled casily in the fall
with corn-harvester. 1 admut that in hills the kround can be kept cleaner, and the crop may be
richer in cars; but this might easily te by a few days' delay in plantinc. 1 he ofise
 It has frozen on, but soon recovered. 1 use as
little seed as I can with my old Maxwell com mon grain drill with two ubes open, 40 inche
apart, a littue over a peck to the acre.
noxt the the
 plow-skimmers, covering every grain of corn
with a light furrow, and when land is dry cnough I put on the roller, packing the earth snugly
around each grain, and hardly a kernel fails to grow: in fact, I have never had a failure since 1
adoptco this method in ferrinating my millet
(which I drill in and cullivnte) as to escape the depredations of crows, as well

 harrow, once, twice, or three times, accurding ti.
the length of time the corn tanhes and especially after each rain, so as to treme up,
crust and allow the grain to sivin thath crust and allow the grain to splring forth. I
do not touch ot again till 1 cran oo in with my
two-horse coultivator two-horse cullivator, equipped with shillds to
protect the small plants, zuiding the rolline see
tions from the rows
 door inviting shmut that every bruise was an opon
docrus in and hy frill a magni-
ficent collony of this black
 to it until the cultivator going over it treaks a
frw of the stalks. It might possibly add to the crop to go through once aftre with a a one horse
cultivator, Mut arter riding throush the field like a prince, one hates to get down and plod. I have
persuluaded
muself it doesn't pavy Tre cultivate for the obioct of hilling weonds, of




Fodder Crops for Soiling. To the Fditor "Farmer's Advocate": we have found that three or four sowings of a mixture of two parts oats and one of vetches, sown broadcast, on good, well-prepared soil, at intervals of evary ten
days, and harrowed in, beginning to sow as early in days, and harrowed in, beginning to sow as early in
season as land will permit, makes an exceltent suppleseason as land will permit, makes an exceltent supple
mintary feed for keeping up the flow of milk in a herd
of dairy cows during the summer months. They should of dairy cows during the summer months. They should
get at least one good heavy feed of this per day, and to sow this mixture on a fow ridges along the pasture
there we can mow it and throw it over the fence for he cows each morning. Any good variety of fodder orn may be sown also in third or fourth weok of May
C) come in after the vetches are all cut or get to ripe, but we always get more milk from the vetches mixture, for the corn has to be fed in a very green
s: ate for cattle , to eat stalks up clean without putting them through a cutter. A little barley may be mixed in with the
proportions.
Two Mount

## Killing Sow Thistle.

With refercn:e to " Subscriber's" enquiry as ic
radicating sow-thistle, I will give you my experience fradicating sow-thistle, I will give you my experience
Having a 15 -acre field literally covered with the perenhial sort, ahout the middle of May we plowed deep with
the narrow plows, then harrowed thoroughly ; then octhe narrow plows, then harrowed thoroughly; then oc-
casionally through the summer, during hot and dry casionally through the summer, during hot and dry
spells, put on the thee horse cultivator, in order to spehs, put on the threc-horse cultivator, in order to
lring the roots to the top exposed to the hot sun, but
cultivate, in order that they do not again take root and ultivate, in order that they do not again take root and
krow. Then the last week in August we plowed again, Then the last week in August we plowed again,
owed with fall wheat, nnd secded down with clover and
This was nine years ago, and I have never anen one growing root in the field since. A little at-


To Eradicate Sow Thistle

## I notice in your issue of April 27 th Subs riber sking how to get entirely rid of sow thistle. My experience has ben only with such a patch si he descriles. I have killed it long strawy manure and covering it up entirely. I think this a much bet er flan for a small patrh than cultivation, as it is quite possible to drag the roots to other parts of the field, and, if <br> OAIRY

Flavor of Pasteurized Mills.



## Advantage of Pure-bred Bulls.

$\qquad$ bull to improve the quality of his future cows he should look to the quality of the bull, not to the cheapness of price. The character and re-
liabilly of the breeder goes a great way in such a transaction. Heer should try to buy a such
a futa transaction. He should try to buy a "fut-
ure of good quality that will run on for gen-
erations, and that will help) increase the pood erations, and that will help, increase the good efficts of every flumre sire that may be used.
2 He should alwass breed in the line of his
first efiort. If his linct bull was Grst enfort. If his first bull was a Holstein or a break up the line of prepotencirs and make a tion of sires of the sime a breed, sublecting all the time for breeding power, ho will enlarge and
broaden the stream of dairy heredity. What w. are after, in reality is a tion as tout the most relialle basis of calculais called, the prepotency of the bull, is the dairy Character of the grandmothers and great-grand-
mothers on both sides of his pedigres the stored-up result of what his pedigree. He is
quality of his ancestors will have The quatity of his ancestors will have more effect on
his offspring than the performance of his mother. She qives to him of what she inherited more than of what she does. She may be rich in inherited an ordinary performer. (In the contrary, she may sport, but not having. a stiong tide of anheritance in a dairy direction, she has nothing to con
vey to scn or daughter. This will fylain win so many Shorthorn cows, that are large perform,
ers themselves, fail utterly to convey their owr dairy quality to their prosen. Therir line of
breeding is from a beef heredity for many hreeding is from a bee? heredity for many genera-
it ne and they give to their prowens what they
inherited. $A$ cow breeds fiom her blood not as well as dairy performance, if we get our
money's worth when hure 4. There is one thine more, fulte necessary
consider in buy cate from his appearance that he possessesec
strong individual character? Ts he of clear. de
termined dairy vive fult that te will take possesssion of of the fencrale, so cur-
remts with which ine is rents with which he is hroucht into contact. and
thus stamp bis heifers with the turality of the
mothers that lis back of him?

Composition of Butter and Overrun


## Quebec Dairy Happenings.

ion; dairy boards have held their first meetings. The Cowansville Dairy Board resumed its weekly operations with a large attendance of both buyers and factory Messrs. The following Montreal houses were represented mas; A. W. Grant; Fred Fowler; D. A. Macpherson Co Jones, Marshal, Rutherford Co: ; Hugh Allen ; Langlois Co.; John Orpe Co. President Foster thanked those present for the large attendance. The drop in prices of of the season. He regretted much apathy the the part of the farmers of these Eastern Townshiph, and there was also evidently much jealousy on the part of "reighboring towns because the board was held at Cowansville. He discussed what took place at tho
recent meeting of the Montreal Board of Trade, with recent meeting of the Montreal Board of Trade, wit
the Hon. S. A. Fisher, Minister of Agriculture, an others, to consider the question of weighing butter and ers at that meeting tell how they had been " robbed by the farmers." The statement was so ludicrous that it called for no coinment. He had been assured by Mr
Fisher that disputes such as had caused trouble in the Fher that disputes such as had caused trouble in the
past would in fibture be satisfactorily adjusted. Mr. Forter has been the prime mover during the mat year in raising subscriptions to have a suitable monument placed over the grave of the late Hon. John these Townships. He has pledged himself to parmer of towards the erection of such a testimonial to represen Io future generations the respect in which dectased wa. and is held. This district, so Mr. Footer is deter taking, and he was gratifiod to have recelved ander account several subscription lists well filled up. Mr. A. A. Kyer sald that the prescnt low prices of on the market, but prices should improve butter cam ern Townships should make nothing but butter: wished there was not a cheese factory south of the
T. R. He wns
. be misled by newspaper talk Townships farmers would ontinue to desire what the what they had tried and found suitable. Mr. Ayer favored concentration, amalgamation and centralization factories. The use of the present style of building for reameries was ridiculed. Good style of building therofrom. Many countries used a vast system of skim hing stations to supply one enormous factory such a ter per week, and found the method very satisfactory There were factories in the Argentine Republic with a weckly output of 5,000 packages. True, they were no
fitted up as poorly as our creameries are and the cream procured at them eras not at present central creamery on a springless wagon, and half churne adopt their more advanced me reason why we could not as high prices as other countries, but also establish
-eputatite Why." for butter equal to that of our cheese does not yet know that Canada makes hutter." speaker was much opposed to the farm sutter. The from the it took the control of the cream as it camp and caused thator out of the hands of the buttermiaker batches of cream in order to guard againgt hundreds of when, with fairly large skimming stations few would have to be watched. The centralization of Iabor was a means of greater economy, and the absurdity of 100 men, horses and wagons doing the work that
five or six could be hired to do was Ayor accused some factories of including in shipments butter made after the weekly board meeting. To this
statement Mr. Foster obiected, but mo statrment Mr. Foster objected, but Mr. Ayer said he
had no fault to find with the board as reiterated his statement, that rules, thoory and practice ften varied. He advised the adoption of a system of
'arking each day's make by itself, and thus aid in facture. Gooss to very day of its mamuMr. Jas. Burnett pointed out that a resolution to hiveting held on the first day of April last. Mr. Foster nink away with the expense of country inspection would wable the buyers to pay higher prices, and create more competition among buyers for Eastern Townships
$\qquad$ ri.s. and 43 boxes of hay chered for sale by 20 cream-
whith trefused 10 fentories, both itwhi h refused 10 cents per pound, Montreal inspecny got hy four creameries, the remaining sixteen hav-

## Co-operation in Siberia

The Siherian Listok gives the number of butter as 694, using 1,214 separators, cmploying 1,629 hands, and having worked 10, 487.417 poods tive societies included in the above was co-o, Sibrrian lutter, business ham been seriously inter
may 18, 1905
THE FARMER'S ADVOCATE
Paying by Test, and Summer Care of What the Cream Separator Has Done for Factory Milk. Canadian Dairying
temperature is reduced to between 50 and 5 .
degrees, and should be held at that until called for by the crenm collemeno. One of the inex-
pensive, simple coolins may be used where the
our cheese factory for the milk they deliver, by the re sult of the Babcock test, plus two per cent., I would say that this system was first adopted in 1899, antid has been lin oporal ons our patrons who voted wainst it, there were only meeting since then a motion something like the followng has been passed unanimously "Moved and seconded, that we continue to pay for the milk de-
ivered at our factory by the result of the Babcock test, plus two per cent." And no one has had the
temerity to make a contrary motion. The cheesemaker is paid ovo cents per patron to remunuerate him for the
extra trouble entailed, and to help purchase the pre extra trouble entailed, and to help purchase the pre
servaline and keep up the Babcock thating machine
When the millk has been poured into the weigh can at the factory, the cheesemaker takes a small sample of
the milk and puts into a bottle; the bottles are kept convenient on shelves in the weigh porch : each bottl
has the patron's name on it. A little of the preserva tive is added, which keeps the milk from spoiling, an
at the end of the month the contents of the bottles ar at the end of the month the contents of the bottles ar
put through the Babcock tester, and the test, plus tw to each., enterrod. The secretary first adds up each
patron's milk tor the month, then finds how much but patron's milk for the month, then finds how much but
tor-fat. plus two per cent., his milk contains; then tha tor-fat, plus two per cent., his milk conter per pound of butter-fat. The system entails considerable extra work
oIn the cheesemaker and secretary ; but it seems to give good satislaction. As a general rule, perhaps about
nearly 75 per cent. of the patrons send milk which run nearly 75 per cent. of the patrons send mining 25 per
about the average. Some of the remaining
cent. test high and some low, but, as a general rule, is the same patrons who always test high, and ther
are some whose test is generally low. There is, of are some whose test is generally low. There is, of
course, a difference in cows; some cows give much
richer milk than others, nd some pastures are better than others, and especially in hot weather it makes great difference how the milk is taken care of. It
should have the animal heat removed as soon as pos should have the an
sible efter milking. pails; this a bowl is perforated with small holes, and has legs which rest on top of the milk can, keeping th
bowl about 18 inches above the top of milk can. I very hot weather we set the can in a tub of cold wate
convenient to the pump, so that we can add more col Water to replace that which the milk has warmed. bowl, from which it slowly flows into the can in smal jets, thus allowing the animal heat to pass off into the
air. When the milk has all llowed into the can, we handle, and has its bottom perforated with $\&$ or $\begin{aligned} & \text { inch } \\ & \text { This pail is put into the can and lifted and }\end{aligned}$ hold up as high as possible, until the milk runs out at til the milk has completely cooled off. There have been several machines invented to agitate or stir the
milk, and rum by clockwork weights, but so far we have not seen any one which was a complete surccess.
The idea for the cheese factory patron to hold uppermost in his mind is to keep the milk moving until all the heat has been extracted, and as much as pos-
sible keep the cream from rising, and keep it incorporsible keep the cream from rising, and keep ited torpor to the top and coagulate in very hot weather, a con-
siderable portion of it finds its way into the whey tank. The milk should not be violently agitated,
motion is apt to have a churning effect, but the airing should be done gently. We have kopt Saturday nigg in
milk sweet and fresh to send on Monday morning in very hot weather, but when it is cooled and aereated
it should be taken into a cool cellar or other room of thunderstorms will be apt to sour milk, even if the The cows should have free access to salt, or have it
Maced before them regularly at least twice a week. Kind treatment is of the utmost importance, and chas-
ng by dogs should not be allowed. If a dog is used Oo drive the cows, he should be carefully trained to do
his work very gently. The cows should not be allowed to drink stagnant water or whey or swill, or anything
of that nature, but should have free access to clear running water, or to good well water. A change of
pasture is of great benefit to milking cows. It is a gaod plan to have two pastures, changing the cows
gvery three weeks, and when the weather gets dry and hot it is well to have peas and oats, lucerne, or some
other feed, to supplement the pastures with, and then in the fall corn, mangels, or greystone
should not get all the greystone thunips can eat,
but should get good hay or cornstalks along with them. but should get good hay or cornstalks along with them
It is when grevetones are fed exclusively to hungry cows
JoNAS. hat the milk got
Claimer Ha Lea. $\qquad$

[^1]
## It is twelve years since 1 became especially in terested and identilicd with dairy work. Separ


ability and
many cases the n"
knowing what is
the patrons wil!
can with the mak
until no better butter th
In closing, I would like
about the care of the separator. and strongest of them is a delicate machine, nind strain on the parts and to insure smooth run ning, the floor or foundation on which the sepa rator stands should be firm, the machine perfect
ly level and securely fastened down. All the ly level and securely fastened down. Alt the two well flushed out with coal oil.
The high speed at which the machino runs The high speed at which the machino runs,
makes it most necessary that it always be well makes it inost necessary that it always be wel
oiled, and only the oil furnished with the ma oiled, and only the oil furnisked with the ma-
chine, or equally fine oil, be used. Speed should be gotten up slowly, and in turning the crank the same pressure should be applied all the way
around. Before turning on the milk put through a little hot water to warm and wet the bowl. Milk always separates best immediately after it is drawn from the cow. $1 f$ it cools below 80
or 85 degrees it should be heated to about 100 or 85 degrees it should be heated o about quite hot. Run the machine up to the stated revolutions; never below, or there will be an ex
tra loss of fat in the skim milk. A machine do ing good work should skim to o5, and never should have over. 1 per cent. fat left in the skim milk. If there is a thin scum of cream on the separated skim milk, something is wrong.
Have the flow of milk into the separator as even as possible. The quantity of milk in the receiving can has much to do with this, and When finished ceparating, the bowl should be flushed out with war,m water and the machine allowed to run down or wa chine apart and putting it together not the maor bend any of the parts. I have seen good mahines seriousty injed by a ittle carclessness in this regard.
or is now considered almost a necessity. It certhinly is a paying investment, and few farmers
can aflord to be without one.

Cheap Labor in Demmark.
Primrose McConnell gives one reason why the
Danes succeed in competition with other countries He says: "One of a deputation to Denmark gives the balance sheet of a small farmer, where
the work is dono all by himself. his wife and family, and it appears that after deducting intrest or rent in the value of his farm, the con-
lined labor of the whole family realized about 10s. a week. The same family in England would probably earn $£ 2$ per week, so that the labor in England. But that is not all : People who work for themselves work harder than paid servants, so that more work is done for the 10s. that we cannot compete in cheapness of production with such people, and no wonder that peasant farming does not succeed in this country. It
may be that the Danish peasant proprietor is may be that the Danish peasant proprietor is
satisfied with his lot, and that he leads a happy, satisfied with his lot, and that he leads a happy,
healthy life, but is one that will never catch
on' here on such terms as he is satisned with."

## Coal Cinders for a Cow Stable Floor.

I think I have found a good and cheap way to make a cow stable floor: We had simply a clay Last fall we thought of a new plan. We cleaned out all the old planks and rubbish, then wo stood one good plank on its edge just behind
where the cattle's hind feet would be. Next we laid two planks side by side behind this, and about three inches below the top of the other, for the droppings to come on. Of course, we staked
these planks solid to their places. The side of these planks solid to their places. The side of
the upright plank rests against the post at the the upright plank rests against the post at the
end of the stall and goes down about three inches nelow the other planks, thus keeping it firm ; next we got some limestones, broke them up into small pieces, and put them where the cattle
would stand: we didn't put enough to make it level with the top of the upright plank. We then rot some coal cinders from a salt-block that was
notar, and put them on the small stones and packed them down solid, making the surface level with the top of the upright plank. We also
filled up behind the other two planks with the
cinders. There was a lot of dirty salt in the
cinders, and it at all without the salt. I thought this might be of use to some of the readers of the "Farm-
er's Advocate," which, I think is an eeclent paper..
Huron Co., Ont. NOBLE HOLLAND.

GARDEN AND ORCHARD.

## Ċelery

When the peas are all picked by the end of June,
the land can be cleared of the straw and cultivated for a second crop of celery. If enriched with manure at
this time it will quicken growth, and leave the ground in good heart for the next season's crop. Trenches
have been given up by commercial growere, but have have been given
some merit, for plants so placed are more easily moviled up.
1evel ground.
Celery is a R gross foeder, and will readily, absorb
water, whether in the form of liauid manur or water, whether in the form of liquid manure or clear
and should make strong growth before any earth drawn up to it, for anpret trom the oregular hoeing, this
work of ". handing." as it is called, is very necessary work of " handing," as it is called, is very necessary,
gathering the leaves together with one hand, while gathening tite leaves together with one hand while
drawing a little soil around the plant with the other. In small gardens, when there is plenty of time, it is a
good plan to tie loosely a bit of vass string around good plan to tie loosely a bit of liass string around
each plant, to keep the earth out of the heart, otherWise it makes a stunted growth. Of varieties, ". White
Plume" "for early, and ..Giant Paschel,", or any of the larger. good-keeping varieties are good. The plants
must be raked under glass, and exposed to the air in June, artee
and strong
cele
Celery is a valuable winter salad, and niso makes a
palatable vegetable sternd palatatale vegotable, stowod and served lito caulifower
Packed away in snd before Packeo way in sana beforo hara irost comes, it wi keep well if the cellar is cold and of even temperature
and can be used for the table by taking out the cente stalks that are tender to ent raw, and cooking the rest.
 pieces and bolled until soft in a small quantity of
water, and none of it must be thrown away. A little water, and nond of it must be thrown away. An butler
new milk and four mixed with it, and a bit of
 Cause of rheumatism, and the power that sustains it.
In growing this plant it must always be remembere In growing this plant it must al ways be remembere cstablishod the soil mast be trrauently stirrod, for aub:h growth in cool weat ther is what makes tender stalks.
There are two disposes that attuck celery, and thes are usually the result of planting on unsuitable soil Rust is bhown by yellowish spots on the leaves, and
hight watery spots, followed by black dots. Healthy plents and good soil will generally keep these disiseses
at bay, but it attached the remelty is an application or

## Apple Shippers' Complaints

 An ottawa despatch states that the RailwayCommission have conumunicated to the railway a petition by 75 per cent. of the principal fruit
exporters, complaining about the inadequate ship ping facilities in summer and fall from inland points to the scaboard, and in winter from ship-
ping points to horne and imats.
" The freezing of afples in transportation during the last two or three winter seasonss
caused most serious losses to exporters, and in cnuscd most serious losses to exporters, and in
many cases wiped out the profits or the entire eason, besides lringring Canadian fruit into bad It further alleges that the (irand Trunk have in winter, although the (1) R, have done so, and concludes by appealing to the Commission th
compel the Canadian railways to furnish suitable eaters and refriperatar aquimpurnt, so that proper

## Fruit and Flower Show Officers



|  |  |
| :---: | :---: |
|  |  | Catharines, Second Vicersresident, John Chymting, Executive for the Fruit-growess' Association-W. Bunting. St. Catharines: i. W. Hodgetts, Toronto

Alex. McNeill, Othawa.
For the and Florista' $A$ ssocintion-G. W. Douglas, Davisville; and E. Collins, Toronto T. Manton, Eglint Rook, H. Simmers, Chas. Chambers. For the Electoria Mistrict Society-R.J. Score, w. B Saunders. J. H
Duntop, John Chambers. For the Ontario Beekepeprs AssociationtII. G. Sitbald, Claudo ; R. H. Smith, S
Thomas: F. J. Miller, Londm : W. Couse, Streetsvilt, Ontario Vegetandurerovers' Association-w A. Emer Two mood things for the cow stalle: sum

## Spraying Plum Trees

What is the best time to spray plum trees What is the best time to spray plum trees
and what is a good mixture to spray with? Oxford Co., ont. ..W. D. BAYNE.
 pest times to use them. See spray calendar
pin insuee of Marck 30 th. During the tirst warm
ind days of early spring you should have applied
Bordeaux mixture for black knot, and later, when Sordeaux mixture Tor black kot, and tor for black kno and other fungous diseases, and when
kot and
lossoms had fallen, Bordeaux again followed blossoms had fallen, Bordeaux again, followed by
two or three more applications at intervals two or three more applications at antervars
ten to twenty days. Still later applicalions of fungicides may bo necessary to prevent leaf-spot and fruit-rot; for these late sprayings use am-
moniacal corper carbonate. Gencrally speaking, the carly sprayings for fungus are the more important, but there is no guarantee oi results unless the work is done thoroughly and persistent-
Iy. y. For the flum seale, spray with ker,usene
emulsion when
the leaves are ofl in the fall, again in midwinter, asain berore buds start in
the spring, and acain when the young scale in the spring, and again when
sectst first appear in summer.
spraying the foriniage a pest that may neccssitate spraying the foliage with laris grlen. It should
be done as soon as the caterpillars make their appearance. Usually tkis will not be until after
the blossoms have fallen ; one or two subse quent sprayings may be necessary, at intervals of eight or ten days. The Paris green may be applied along with the regular spraying of in
deaux, and it is probalyy wise to includo the first and second sprayings after the petals fall. Fon plum curculio, the best known remedy is o jar the trees early in the morning belore the
peetles are active. The insects fall rapidly from the trees, and may be caught oul streets. When ordinarily abundant, jar the trues every second
or third morning, beginning as soun as or third morning beginning as soun as the
blossoms have fallen. In ssvere casses daily nat tention may be needcd Jarring the trees should
be continuer until the bercles nro no lonker be continued until t.
caught on the shects.

## To Fight Tussock Moth.

 towards that end \$100 has been plack mot the tind Naturail History society, for the purpose of offer-
 to collectors: Twenty-five cents for every hundrewd
egg clusters:
for tho larget collection of corrs egg clustors, for the largest collection of ergs
hy any one collector, first prize $\$ 3$, second prize hy any one collect,
$\$ 2$, third prize $\$ 1$.

POULTRY

## Lice.

O. the Editor "Farmer's Advocate " I am almost afraid my veracity will be ques-
tioned when I say that I have visited a poultry-
man in whose henhouse I could not find a louse man in whose henhouse I could not lind a louse,
either about the building or the fowls, though I either about the building or the fowls, though I
picked up several of the birds and examined them picked up several of the birds and examined ther
carefully. The proprietor told me that when the house was painted inside and out a few months before, he had offered the painter a
dollar for every louse he would find building and was not called single insect. I expected that he had some wonderful remedy for this poultry pest, but in this was disappointed; yet his method of dealing with roost house is large in proportion to the number of fowls, the roosts running across the end the narrow way. ventilation is given at all times,
Thorough vent
and there are large windows in both long walls and there are large windows in both long walls,
The building is inade of sealed lumber inside and
out, and has a celnent floor out, and has a cement floor. Not a hit of dirt is allowed in the house-not even a dust box. The
dropping boards are cleaned frequently, and the
boards, roosts and surrounding walls sprayed Hith kierosene.
He throws a handful of insect powder into each nest occasionally. There is
nothing upon the floor but clean straw ; when it shows any sign of getting dirty it is removed and a clean supply put in its place. He puts
nothing on the fowls. His theory is that if nothing on the fowls. His theory is that if the
building is properly ventilated and kept clean, so that it cannot harbor lice, the birds will ri themselves of the pests. They only fail to do so
when a fresh supply keeps coming from the huildThis seems like an casy solution of a serious
difficulty. lice not only annoy fowls. but the source of half their ills. A hen cannot lay
well when her vitality is sapped hy will market poultry fatten proferly. These in the worst evils which is due to them often passes
unnoticed. The infertile egre which westo unnoticed The infertile egge, which waste the
time of the hen
work of the person whio has set her, are often
due to the presence of lice. A friend of min. due to the presence of lice. A friend of min.
who had purchased a cock which seemed to be a whorous birch, complained that egge from his pen would not hatch. I picked him up, and found irritated to an extent that rendered him useless as a brecder. After he was thoroughly dusted a time or two with insect powder the eggs from his pen became fertile
Keeping the chicken house thoroughly clean is
the best remedy for lice, but if they are found upe best remedy for lice, but if they are found
upon fows the birds should be thoroughly dusted with insect powder, and it is of great assistance to the hens in keeping the pests off to put under
the chickens' wings an ointment made of lard mixed with very strong tobacco powdered fine. I think I neglected to say that the fowls kept in the house mentioned hath inside the owed a dus is a chicken's natural defence against lice, and have always supposed that a dust hox in a roos house was a good thing, but the fact that thi
was the only chicken house which had contained chickens for two years and remained absolutel free from lice, has gone a long way toward conness. ness.

## APIARY

## Transferring

## When the fruit trees are in hoom is one of

 their combe into movata frame hives trom bex hives, or hives which, though originally intended (ive movable-frame hives, have, through neglect owed to cet iuto purt of the owner, been at and "crisscrosss" combs, that they are to all intents and purposes box hives-and this article is tol the farmer how to go about the opera-tion. The movableframe hive should be put loose, and the frames should be nailed up, but not wired. Some pieces of stout twine or fine a frame irom top to bottom, and tie or twist
logether at the top, and these should be laid down about six inches or less apart, crosswise on
a smooth board and the frames laid on them, so a smooth board and the frames laid on them, so
that when a frame has been filled with comb the That when a frame has been flled with comb the
twine or wire may be fastened around it to hold
it into the frame until the bres have time to fasten it tirmmly. Lay down bes have time to
board for an operating table pieces of about 10 a.m. on a fine, warm day, as then many
of the bees will be at work in the fields, and be sides, the brood may we handled without danger
of its being chilled. of its being chilled. Light up your smoker. I
you haven't a smoker, get one. Put on your veil if you want toke, and give the bees in the bour hive a good smoking, and tap on the sides of
the box to make them fill up with honey them a fow minutes to fill up, and then remove the cover of their box and set the new hive on hees to cluster on temporarily. Then smoke th bes just enough more to get them "' running,' less. They will nearly all run up into the new and and cluster there, when it should be removed its place. your box hive and set the new one in
of the bong to around the inside may be attached to the box. If this cannot he done from the top it will be necessary to re-
move the hollom of the box, and do it flom
there. there. Then turn the whole business upside
lown on your operating table, and lift the box combs where you can get at them. Never mind came they are as around, for at this stage of the happen to rqueere ono of them. Slice off the 1 ference. If it is drone comb, plate for future Worker, comb, cut it as near as possible to fit any more than necessary, and fit it ine the the
frames. Tie it there as before mentioned and Whace it in the new hive as soon as possible. If the remainder should have full sheets of fround tion inserted and he placed at one or hoth sides Them. Trames containing brood-never het ween
Throw any broken pieces of comb con-
maining honev into the old hove ond cot it wider he new one a day or two alter and set it under the heens to clean up. After a week or so the
$\qquad$

MAY 18, 1905

NEWS OF THE DAY.

$$
\begin{gathered}
\text { Canadian. } \\
\hline \text { Government has dec }
\end{gathered}
$$

$$
\begin{aligned}
& \text { Canacian. } \\
& \text { The Ontario Government has decided to appoint a } \\
& \text { ommission to deal with the question of electic railways }
\end{aligned}
$$ in the Province.

A movement is afoot in B. C. either to estallish a
in provincial university or to develop the present college so that
$\qquad$ Montreal on May
intered that port.
Immigrants to the number of 1,000 , chiefly English 1mmigrants to the number of 1, May 7 th and 8 th:
and Scotch, arrived in Toronto, Man
1,200 more are en route from London, and $1,5 v 0$ fromi 1,200 more are en route most part, for the Canadian Northwest.
Government engineers are ingijecting the clif at
Quebec, and steps will be tukin to prevent further falls of rock.
The by-law granting a honus of $\$ 306$, one to the
Grand Trunk Pacific for the purchase of the mission
property at Fort williatil was carried by a large ma-
iority.
Briish and Forrign.
An earthqua
and loss of life.
Twenty-four people were killed and much damage done by a cyclone which swept over Marquette, hansan
recently. One thousand men have been fighting forest fires in
In Maine over $\$ 50,000$ loss has been Mrass. this week. In Maine o
occasioned by similar fires.
Joseph Chamberlain has been obliged to cancel a
engngements owing to ill health. engagements owing to ill health.
The hradquarters of the Russian revolutionary com
mittee, organized by Father Gapon, is to be establisheSwitzerland
The autocratic party in Russia, displeased at thi
rocedure of the second Zemstvo Congiess which me at Moscow recently, has forbidden the newspapors make any mention of it. The Congress had asked for
two Houses of Parliauent, with an elective system Fiity have been killed and one hundred injured in
terrific wreck on the Pennsylvania Railway near Harri ${ }_{1}^{\text {terrific }}$
Strangely suggestive news comes from the Far Fast this week. In the first place, it is reported that the
Russlan Red Cross Hospitals are to be moved from Russian Red Cross
Harlin to Chita, an almost incredible movement, since
it would completely cut off Vladivostok and Kirin from it would completely cut off Vladivostok and
outside help from Russia, and leave the whole castern
 detachment of Linevitch's forces has begun an aggtessio
dmovement from the north-east into Corea, the objict
intich is lueing stuadly movement from the north-east into corea, the stadly
being to ward off the advance which is leving stady made toward Vladivostok, so steading and syle course of
that it is now sumised that Japan's whol action, both by land and sea, is being directed tuwards
it. Otherwise Togo's strange silence and inactivity it. Otherwise Togo's strange slics, in fact, now ex-
cannot be explaincd. The Russian fleet, other than to harass it with turpedo
1, wats, until it has arrived at Vladivostok, which will hen be invested by seat and by land, as was dere at,
Yort Arthur. In France, Japan's agitation re the obTort Arthur. neutrallty and expulsion of the Russians
servance of
from French ports in the Eiast, is looked upon as a hot to have Rojestivengky driven northwach avold possi-
Hap.
However that may be, in order to trap. Howover that
the complications. France has given explicit ortlers that
the union of Rojestvensky and Nebogatof must not take place within FFench waters, and every precaution it
pening taken to prevent the possiblity of any fuither
charge of breach of neutrality.

| A Razor Edge. |  |
| :---: | :---: |
| Plave lind enclosed $\$ 1.50$ for my renwal sult- |  |
| Magazine." Let me now thank you for the |  |
|  |  |
| premilun knife. It is as gond as |  |
| dusire. Will take an edge and herp it as litle |  |
| as any razor. ${ }^{\text {a }}$ (rouble of sentring new subscriburs for your |  |
|  |  |
| Simcoe Co., Ont. |  |
|  |  |

If You Want Anything AND DON'T KNOW WHERE TO GETT IT, AN
ADVERTISEMENT IN 'THE .. WANT AND FOR ADVERTISEMENT IN THE . FARMER'S AD SALE VOCATE AND HOME MAGAZINE," WILL GET IT FOR YOU. THE FARMER'S ADV


The Culinan Diamond.
Recently dieo verod in South Afrios, and valuel at $\$ 5,000,000$.

## A Folding Corn Marker.

 Having used many different styles of carn markers, I send you herewith a drawing of one markers, I seld miad self, and which I find sati-fac-whi h i made me first place, my mark-
tory in every way. In the
or will mark on ground which is not perfectly or will mark on ground which is not perfectly
level, and besides, it can be folded up when drivlevel, and besides, it can be folded up when Iriv-
ing from one fild to another. Then, on coming ing from one fild to another. Then, on coming
to ,nd if row one flte can folded up so as
to allow of driving closer to fence.


It will be sen that this marker is in ihr
soctions. The sections are ninged together, ind san, be aken upart the sume as a harrow. The
rumners are made of $2 \times 8$ inck. plank, the rest of $2 \times 4$ inch scantling. The two outside sunner should not lie quile so long as the "enter ones
and a marker can be attached to mark next row
if remuired.
FARMER.

## The Embargo Still Stays.

 ture. Hon. Mr. Fellowes, replying to a deputation on
May 11 th, saill he could hold out no hope while he held office of removing the entlargo on Canadian sture cat-
tle. He said there was a very strong feeling in the He, He said thre was a very strong feelng in he he
British House of Commons against doing so. He admitt.d that there was no distase In Canada, but atill
did not propese to run any " risk." The price of leef had not grone up, and the embargo was not to protect had not gone up, und the embargo was not to protect
the lifi-h farmer, but was in what he described as
 with a pocket-knife, by Mr. Fred Wells, Superintendent with a pocket-knife, by Mr. Fred Wells, Superintenden
of the Mine, and when examined was found to welgh about $1!$ pounds, its dimensions being $4 \times 2 \nmid \times 1 \downarrow$ inches. big " ones at present a proposal nfoot to purchase it by popular subscription and present it to King Edward, but it is
safe to Canada may that he wint not likely wear it in his crown. richus, yet who knows? Further developments in regard to the Hudson's Bay district will, at all events, be

Fly Time and Cows.
Fly time will soon be here, and with it the annoyance of caring for milch cows when they are pestered
with this nuisance. A few years ago sprays of diflerent
 ranaceas. One seldom hears of them lately, because it
was a great nuisance to keep continually applying the siray. few dairymen understand how to keep the stable coot and dark, and they know that tiles do not remain in cool, dark places. Cows housed in stables that are
frue from điles, make for their comfortable quarters in a frue from nies, make for their comfortable quarters in a
hurry when returning from pastures. One dairyman who exerctises especial care over his cows in fy time,
bought a number of brooms and fastened them in a bought a number of brooms and fastened them in a
Jark runway leading to the stable; the cows in passing dark runway leading to the stable; the cows in passing
through between the brooms were brushed from their horng to their talls, and most of the flios were swept
hot off. The stable was kept dark all day, and the cows
could eat their evening ration of sllage and be milked

## Great Brilain's Horse Imports.

For the past few years there has been a regular and almost continuols diminution in the
numbers of horses imported into Britain from fornumbers of horses imported into Britat irom or-
Dign parts.
During the quarter just closed offleign parts. During the quarter just closed omof nearly 50 per cent., as compared with last
year. Thus, during the first three months of this year. Thus, during the number of horses imported amounted to 2,900 ; the total last year reached the much larger, figure of 5,372 , and in the corresponding period of the preceding year the still greater
aggregate of 6,077 . During the quarter, under aggregate of 6,077 . During the quarter, under
review, the horses imported from the United review, the horses
States numberted from the United
440 ; about seven years ago the States numbered 440 ; about seven years ag
corresponding total was close on 11,000 .

To Amend the Automobile Act. Farmers will learn with interest that a bill is now
being considered in the Ontario Legislature to amend the Act to rogulate the speed and operation of motor
vehicles on highways, vehicles on highways. The proposed amendment pro-
vides that on each side of such vehicle, in a conspicuous place, and in figures at least elght inches in length,
und also upon the lamps on each side, to be lighted and also upon the lamps on each side, to be lighted
atiter dark, shall be carried the number of the permit
ioned after dark, shall be carried the number of the permit
issued by the Provincial Secretary (as heretofore pro-
vided), so that the same shall vided).
times.
In

and
In the amendment is also included a section to repeal the existing Provincial regulations regarding speod,
conduct, etc., and to vest in the county, city and town councils the power to pass by-laws regulating and governing, though not licensing, persons using motor vehi-
cles, and the speed thereof, with power to prohibit cerCles, and the speed thereof, with power to prohibit cer-
tain classes of motors from travelling on such highways as are specified in the by-law. Though favoring the first part of this Act, we can scarcely approve th
latter, which would be liable to result in a diversity regulations unnecessarily troublesome, especially regulations unnecessarily troublesome, especialy
lourists traversing several counties. There is also the
danger of over-severe measures being adopted in som danger of over-severe measures beeng adopted in some
counties, while in others the regulations might be too The "Farmer's Advocate" will heartily wolcome any well-advised means of protectimg the farmerss, who
keep up the roads, from the excesses of the few autoists. The existing law sceks to do this, but some o effective means or enforcing the regulations. A diffi-
culty that culty that always preeents itself in bringing offenders to
task is identification. This, it is expected, will be task is identification. This, it is expected, will b
faclitated by the rule compelling the carrying of large facmtated by the rule compelifing the carrying of large scribed.
The
The autoist is a difficult trespasser to regulate. His punity, are facts peculiarly aggravating to the victin of horse fright, and the instancos of fagrant vitation of the laws of common civility have in many parts
the United Slates driven exasperated horsemen to pro the Unitedic Slates driven exasperated horsemen to pro-
pose drastic measures. The automobile we have with us. and must tolerate, but the evils attending its improper use call for rigid enforcement of stringent regu
lations, which will be insistently demand by the farm lations, which will be insistently demanded by the farm
ing community, that bears the burden of keeping up the ing c
roads

## Vegetables for Poultry

Because the fowls are on the range and hunting insocts in the grass with plenty of green food all around
them, it does not follow that they would not relish some of the things which will be later waste products of the
garden. They may nut like radishes, but try them with a few of the beets and lettuce plants for which you cal
tind no room when you come to transplant. Gather the material of this time comess, and let the fowls pick it over. They will variety which they crave.
By the way, also try the plan of having a pile o
two of dry sand on the range so that the fowls cail two of dry sand on the range so that the fowls can
dust when they feel like it. You'll be surprised to see how many of them will use this dust pile. Then don't
forget that fowls on the range get thirsty even more forget that fowls on the range get thirsty even more
quickly than when in the confines of the house and yard
Place the water in the


Robery year
RON

## Cerebro-spinal Meningitis.

$\qquad$ awakened New York Cinterest almost amounting to a panic in est problem among contagious diseases which has fallen oothem to investigate. Committees have been apas yot little headway has been made, although bacillus which causes it has been isolated. That the
noed of remedial measures is immediate may be judged need of remedial measures is immediate may be judged
from the fact that in March alone out of 167 cases in New York 84 deaths occurred. As in all other germ
Neme New York 84 deaths occurred. As in all other germ
diseases, perfect cleanliness, pure air and water, and
wholesome food are the best preventives. Should the wholesome food are the best preventives. Should the
discase, however, make its appearance in Canada, it is disease, however, make its appearance in Canada, it is
well to remember that hot baths taken very. frequently, and frequent spraying of the throat and nasal passages with water containing one per cent. of carbolic acid
have been found of benefit. In $_{\text {it }}$ its earlier stages the have been found of benefit. In its earlier stages the
disease is said to resemble strongly distemper in ani-

## The Pure-seed Propaganda.

$\qquad$ growers' Association will be held in Ottawa, June 27 th ,
28th and $29 t h$ next. The provisional programme in-
cludes addresses or papers by a large number of the leading experts.
Arrangements have been completed by the Seed
Division, Dept. of Agriculture, Ottawa, for holding a Division, Dept. of Agriculture, Ottawa, for holding
series of fiold meetings in districts where clover seed is largely grown in June next, after the plan of the orchard meetings held by fruit men. Four deputations
orll operate in (Ontaricy will operate in Ontario, one good Farmers' Institute
speaker and one weed exjert being on each. The seedsmeaker are to have a rexpresentative at each meeting to speak on the subject of seed production from the seeds-
man's standpoint. Mr. Putnam, Supt. of Tnstitutes. man's standpoint. Mr. Putnam, Supt. of Institutes, is
co-olfierating with the Secd Division in the arrangements

## The Agriculture and Arts Act.

$$
\begin{aligned}
& \text { To the Editor "Farmer's Advocate": } \\
& \text { Sire. In your issue of the 4th inst. I notice an } \\
& \text { article entitled .. overhaul the Prizelists," in which } \\
& \text { reference is made to the revision being made in the On- } \\
& \text { tario Agriculture and Arts Act. From this article . }
\end{aligned}
$$

judge that you expect to see the change in the Act in
troduced at the present session of the Ontario teris lature. Any change contemplated this year will protably not be introcuced before the session in 1906 . The
interests concerned in a change of this kind are so interests concerned in a change of this kind are so great
it has been decided to delay action until a complete $i_{11}$ it has been docided to delay action until a complete i
vestigation of existing conditicns and the probable
fect of the changes contomplated can be made.

## Dr Osler says "Stay at Home.

 ing in Canada. What use could there be, he asked, intalking about an American annexation of Canadd, Se,
ing how much of what is good here in America is being ninexed by the Dominion. ." But there is one thing 1 "I really think it is a shame that so many of you have
crossed the border. S. Seriously speaking. I do wish that
a greater number of you would stay at home, and, in Reduction of Postage to Canada.
country like Canada, where all can read, and most read, is moulded by the literature it feeds on. In Ca ada the mental food is almost wholly of American

## Depth to Plant a Tree.

As to the depth to plant a tree, it seems to be th
yeneral idea that the future prosperity of the tree proportionate to the depth and firmness with which is placed in the ground, and the percentage that plant too shallow is almost too insignificant to be worth con sidering, for the sinning is all in the opposite direction
Look for the mark made by the earth on the trun of the tree when it stood in the nursery, and going that, although it may seem shallow to you, you wis make no mistake. The roots want warmith, light an woisture, such as they receive when placed properly, bui it is impossible to dovelop any vigorous root action while contending against the terribly handicapping co ditions. Give your tree plenty of feeding ground; plenty
of good, fibrous earth, and if the place of planting is of good, fibrous earth, and if the place of planting is
not naturally suitable, dig it out deep and put in what

New Agricultural Building at Cornell. University, Ithaca, N.Y., to the number of about 200
drew the plow, with Dean Bailey at the handle, break ing ground for the new buildings. The hall of agricul
ture will be 484 feat long will covar 42366 squara feat ture will be 484 feet long, will cover 42,366 square feet and have pretty near three acres of floor space. The
auditorium will have seating capacity of over 500 . The judging pavilion, a separate though connected structure,
will cost $\$ 12,9+0$, makilg a grand total of $\$ 197,900$

Horse Show for Winnipeg
Arrangements have been completed for the holding
of a two-days' horse show in Winnipeg, on June 14t ar a two-days' horse show in Winnipeg, on June 14th
and 15 th. Classess will include carriage, roadster, riding, jumping, breeding, and heavy draft horsess, pololo and
other ponies. There will also be entertainment feaother ponies. There will also be entertainment fea-
tures, in the nature of a gymkhana. Reduced rates on the railways have been secured, and everything points


A North Dakota man claims to have invented a
machino that can machine that can be moved down a row of shocks,
threshing the grain as it goes. No hand pitching is required to place the sheaves on the cylinder table, as
this is done this is done by an automatic attachment. Another perfected a machine to thus saving the work
outfit.

A Successful Horse Show at Montreal.

$\qquad$

Sir Fred. Treves re Alcohol.

Siir Frederick Treves, surgeon to King Edward VIr.
flat a
Hatly a firms that alcohol is a poison and a stimulant.
not a food, und adds that its use in hospitals is steadily
declining.
hook postage rates in Canadd and the Pootmaction-C on-
,ral's refusal, says
Even if this particular reforinWere to result in loss it would still, on the hroad

## Contents of this Issue. <br> Stuntiney Pharaoh <br> - EDitoria

Prof Wm. Lochhead, B.A., Professor of Biology, O.
A. Cuelph, Ont, has been appointed to a similar
mosition at the new agricultural college at Ste. Anhes, 1. © (iuelph, Unt, has been appointed to a a similar
position at the new agricultural college at Ste. Animes

Regulation
The Mission
Why Do We Cultivate?
Agricultural High Schools in Murator 738
733


 Our Scotish Lotter
Making Shipping Crates
In Favor of Dehorning
In Favor of Dehorning
Against Dehorning
Against Dehorning ........
1, rhorning Calves
1).litives in Dehorning
FARM.
$\frac{\text { MARKETS }}{\text { Montreal. }}$

Hutter-Priees advanced Last week
stead of declining as many expected soneral shortage is indicated by or coming in
foundland,
Vancoun New York and from New foundland, Fancy creamery has sold for 19 tc ., though it has since eased on th likely fetch 17 c . to 17 tc .
Egys-Low prices have Eggs-Low prices have checked supplies and induced pickling, so that the retail
trade is now short of stock. Quote trade is now short
Cheese-Market has not declined at the

 heen cabled 6d. lower,
affect the Montreal market affect the Montreal market.
Potatoes-Several carloads shipped t.
Ottawa and Toronto sold at 55 c . pe bag. f. o. b., Montreal
high prices this season Grain-No market, locally, for wheat or any other grain, except oats, which are very dull. Stocks light, however
throughout the country, and prices firm, No. 3 being quoted in car lots at $44 \frac{\mathrm{t}}{\mathrm{t}} \mathrm{c}$
ner bushel, store ; No. $2,45 \mathrm{t}$. rer bushel, store; Beans-CCoice primes, $\$ 1.70$ to $\$ 1.7$
per bushel, 'and $\$ 1.50$ to $\$ 1.60$ in car lot. Feed-Active : demand excellent price Manitoba bran, bagged
m : shorts, $\$ 21$ per ton. The London market was cabled last
week at a light decline, the quotation
wheing 13c. for Americans; Liverpool
about steady at 12tc. for Canadians, and
asc. for Americans. There has recently
13c. Trean 13c. AOr Americans.
been a slight demand for ocean freight
from Montreal, but no great activity in from Montre
ahipping is as been let at 40 s . per head, Portlan ideruble space is being offered for Lo dom, and, as a result, the market fo
freights has been weak, a decline of 5 s per head having taken place, at 30 s ,
This figure has also been accepted for Munchester freight, it narket for live stock quite firm la
week. (Gattle scored a decided advan having brought as high as 6tc. pe
hound for a few animals, which is almo as much ns was realized for the most on rice for choice catcte, this week, w brought 4 c c. to 5 c ., and a few may hav sold at less. Mediums ranged from $3 \ddagger \mathrm{c}$. theen were quoted at at $2 . \mathrm{c}^{2}$ to 3 c c c. sheep were quoted at 3 c . to 4 te., and
pring lambs at $\$ 3$ to $\$ 6$ each; calves pring lambs at $\$ 3$ to $\$ 6$ each, catce
,ning $\$ 2$ to $\$ 8$ each. Hogs were ather
rmer, owing to an active demand aroll ackers and firm advicis from England. Sales of select stack were made at 7 c c.
0.7 c ., heavy and mixed being 7 c . to tc. A dispatch datwd beligary, Ma th, stated that the first train of cattle
 There were 17 cars in the train, and the
tock all fed stuff, and was bound for
tontreal This was said to have been Montreal. This was said to have
two months earlier than usual.
Dressed Hogs-Firmer, in sympathy with live, and prices advanced about to
salles of frush-killed abattoir stock, sell ng at 9 gic. to 10 c. per 1 . Demand was
ery fair for everything offering. Advices from the other side report a firm market for bacon. for horses hus
Horses The market
shown very little chauge since a wee
 Ching. The scarcity of goot is firm
still continues, and the market is firm
nil round. trices hold about steady at $\$ 150$ to
$\$ 200$
animals. each for general-purpose
Coal-cart horses, good chanks,

 highter ones, 11,100 to 1,300 lbs., $\$ 150$
horses,
$\$ 200$ each , cheap animals $\$ \$ 5$ to $\$ 1$.

Seeds-Demand is very active for hay
seed, and prices are firm, Dut unchanged
The range is from $\$ 11$ to $\$ 16$ per hunThe range is from $\$ 11$ to $\$ 16$ per hun
dred pounds for alsike, $\$ 13.50$ to $\$ 17$


## THECROWN BANK OF CANADA

Ca pltal Authorlzod.
Heal Offles, Toronto, Ont. Edroard Gresenteney

EVERY DESCRIPTION OF BANKING BUSINESS TRANSACTED Special attontion glven to socounts of Choese Faotories, Drovers and Grain Deaiers, and
an ontor-town eoontits.
 SAVIISS BANK DEPARTMENT Deposits of Twonty oonto and apmarde roopifod, and in ear, withont prosentation of pasebook. No delay in the withdrawal of any portion or th Varl with tout prosentation or passion
Whole of the deposit.

## GET A HOME <br> In the Great Canadian West.

THE CANADIAN-BRITISH LAND CO., LTD.




Hoad omoe: 8T, THOMAs, ONT. Head Omoe in the Territorios at Reglas. JOHN CAMPBELL, ESQ. GEORGE K. CROCKER, ESQ., On


## Detroit Bean Market

Toronto Horse Market

$\qquad$ a tendency to shade prices, exce;it for the
choicest classes.
Second-hand and the
commoner classes rellect the present deprossion most, both as to activity and
price. Two factors which have, perhaps, lency here this weok have been the Horse Show in Montreal, which, for the
moment, has diverted attention trom this morket, and the strike at Chicago. At-
mandance at the salo-rings during the
lent week has been rather light, and the bid-
ding has been far less active, so that the uctioneers were generally compelded to
acept roductions, as compared with the and
The prosent range of prices in this N as folluils:
single rodsters, 15 to $\begin{aligned} & 16 \text { hands }\end{aligned}$ \$135 to \$1e5 16 hands
Single cols and cariange
horses, 15 to 16.1 hands.
Natched pairs and carriage Natched pairs and carriage
horses, 15 to 16.1 hands. 300 to 450
 hraft horses, 1,350 to 1,750
los. ....
$\qquad$
$\qquad$ Drivers, is to 18 hands... $\$ 125$ to $\$ 200$ $\begin{array}{ll}15 & \text { to } 18.1 \text { hands ......... } 160 \text { to } 250 \\ \text { Matched }\end{array}$





Buffalo.


[^2]


Tife, Titerature and Soucation.
"The Sage of the Grange. One of the most interesting personalities in the City of Toronto is that of the " Sage of the Grange, the wonderful octogenarian who, at an age when most men are contented o sit on the doorstep in the sun and severest mental exercise, still retain his hold on life at all but its fullest, his interest in public events and pub c weal unflagged, and his opinion looked to, if not as authoritative, at east as those of a man well fitte o speak-Goldwin Sinith, schola historian, critic, educationist, lec urer. It is true that at a meeting of the Canadian Club of Ottawa last
winter the Sage of the Grange intinated that his voice would no mor be heard from the public platform but his lectures have all been printed
and from his stately old residence "The Grange," he still speaks to the public through his pen.
Goldwin Smith was born Goldwin Smith was born August 23 rd, 1823, at Reading, Eng., wher
his father was a practising physician When he was ready for school he e tered the famous old halls at Eton
graduating thence into Oxford Un graduating thence into Oxford Uniably successsul, scholarships in Latin and Greek falling, as if a matter o course, into his hands. During this prizes for Latin verse and Iatin an Finglish os. ys. He wis sthber un
Iy called to the bar, but never prat

 occurred the great tragedy of Ame
ica, the terrible war between ern and Southern State canto intensely interested, and it is perhaps, to the interest at that tim
engendered that is due his presence in engendered that is due his presence i
Canada to-day. Throughout th struggle he was an active champion
of the North, and wrote many pamphlets in support of the North visit the United States, and, his fame having gone before him, he wals gree of I.L, D. being conferred upho return to England he pulbished two volumes, "Fngland and America," Later the degrees of D. C. I, and
LL.I. were conferred upon him by xford and Princeton
do came to the Cornell University was Iecturer on
$\qquad$
om this time her from this time henceforth he devoted Greek Tragedy, Essays on Ques ark not especially a e contribu- "Shakespeare the Man". ". Guncsses tion to literature, but as a means of at the Riddle of Existence," and a raising and directing public opinion "Political History of the Unted
in those channels which to his mind seemed right and best. In attaining Of this list it may only be said to
this object he has been in some the would-be student that the this object he has been in some the would-be student that the
directions measurably successful, for, writer's treatment of his subjects has
although many although many of his opinions have not recommended
selves them-
to the Canadian people, he has, perhaps, as an exponent of high character and an enemy of
political corruption and double dealing, done more than any other living man to raise the character of the
Canadian press. His profound learning, moreover, his mastery of style and wonderful command of language Canadian writers, whol, in aiming at his standard have becon by no means A great deal of his writing has been done for current publications cles some time he contributed artidian Monthly, following these up cles on current events to the Cana- even he could foressee the wonderful
dian Monthly, following these up strides which Canada has made dur
later by contributions on political ing the last few years, or the change of aspect which such strides would
 bring about. He does not
Secen to have apprecialed
tine stren, th of the tiess of
national sentiment as of his opinions good Canadians are not likely to arree He has for ar enough laid himself open to patriotic arrows by reason of his opinions; first, that the destiny of Canada was
independence. and later independence, and later that its
political life is destined to be locked up with that of the United States No one, however, is bound to accept
all of any man's ideas, and Goldwin all of any man's ideas, and Goldwin
Smith at least deserves credit for the fearlesseness with which he has expressed his convictions. His works on history may be taken as author
ties. In those in which he has eated of coming conditions, e. "The Canadian Question," he has t times, made mistakes, for not

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ Goldwin : mith, D. C. L. LL. D ave a sorry time of it. Hence, we adily attribute some extra virtue o those persons who voluntarily embrace solitude, who live alone in the cuntry or in the woods, or in the mountains, and find life sweet. We now they cannot live without conarse, without society of some sort invoking them with the powar lse of finding more companionship with dumb things than ordinary mortals. In any case, they give evidence of resources which all do not possess. If not " exquisitely made," hermits generally have a fine streak in them, which preserves them in solitude. If a man wants to get away from himself or from a guilty onscience, he does not retreat into he country, he flees to the town he is empty the town will fill him it he is idle the town will amuse him; vaity. if ho is is a field for his upes if he is an honest played upon, ill have a struggle to man, here he integrity. The rapid growth of Every man who has a demon to flee from, a vice to indulge, an itching Squander, or a dream of sudden wealth to cherish, flees to the city,
and, as most persons have one or the ther of these things, the city out-
trips the country. It is thought hat the more a man it is civilized, the more his tastes are refined, the more
he will crave city life, and the more
"enefit he will get from it. But this enefit he will get from it. But this
nay be questioned. It is not, as a
rule, a refined taste, that takes men to cities, but a craving for a vain
silperficial clegance, the pride of
Iress, of coninaco Iress, of equipage, of fashion, of fast
iving, and the shams and follies Teople of the country country life dull be
$\qquad$
$\qquad$
$\qquad$
$\qquad$

 Among his "orks which have been along with those who shave the solitude is not for the young ; the Lory and Irish Character,", "Lectures Solitude

## Comwell, Pitt and Pym, ", ".ssay

England "" ". Short History of Fing
land to the Reformation," Lectur
and to the "Reformation," "Iectur,
Lates," "Oxford and Her Colleges,
Bay Leaves," .
Translations Fro

MAY゙ 18,1905
The Mighty Power of CharAnd they said, We saw certainly that the LORD was with thee : and we saird,
Let there be now an oath betwixt us, even betwixt us and thee. ne blessed of the ORD.-Gen. xxvi.: $28,29$.
Be notble! and the nobleness that lics In other men, sleeping, but never dead-
Will rise in majesty to meat thine The passage from Cenesis, given above, shows that the mighty power of charthe world, even as it does to-day.
Abimelech was a heathen and a king, Abimelech was $a$ heathen and a king,
yet he made advances to Isaac, pleading
that the shepherd would make a covenant with him: Why was he so anxious to join hands with a man who
was no mighty warrior to help him in
fighting his enemies, but a gentle man was ming his enemies, but a gentle man
light mo was willing to give up even his
nho
just rights in order to avoid strife? just rights in order to avoid strife?
Abimelech had ordered Isaact to leave his
Ans,
 saac quietly departed dug well after
the peratriarch's servants dug

 "xpectenly, Abimelech changed his a meek
and sought an allinence with this meek
shepherd-patriarch for this very good shepherd-patriarch for this very good
reason: "We saw certainly that the now the blessed of the LorD., 'h Have things changed in these days?
Men who make no attempt to live like Men who make no attempt to live ike
Christ themselves may ridicule and tor-
ment a man who does make the doing of Ciod's will the business of his life, but
all the time they see certainly that the all the time they see certainly that the
LORD is with him, and, sooner or later,
they will boiv in reverent respect beffore they will bow in reverent respect before
the quiet, persistent, mighty power of a holy life. The prophecy that the
meek shall inherit the earth is continually being fulfilled.

- The tidal wave of deeper souls

Into our inmost being rolls,
And lifts us unawares
A man's unconscious influence affects a great many more people than he has
any iden of. It goes on continually any iden of. It goes on continually,
and, I can't help thinking, a good char
acter has far more influence than a bad ncter has far more influence than a bad
one, partly because the character itself is stronger, partly because the people in-
fluenced really want to copy it, but sppecially because good is stronger than
cvil, light must drive out darkness, and
(il) (iOD is infinitely mightier than Satan
It is character that really tells in this
inorld not wealth or genius, and we are Mesponsible, awfully respons, ante, for our miconstious influence; because it is the
inevitallee consequence of the character hy our everyday words and actions, and. mind aspirations.
and
 Ton. It is folly to fancy that e,
thoughts can harm no one but the per
the So whe ventures to earourage ${ }^{\text {a }}$
We are members one of another,
therefore, we can't help execrocising therefore, we can't help exercising what
MacMillan calls. the action of preseice. whether this action of presence shall is quite possible to actively " do good
without being good, but it is hardl
a Wussible to reatly
in some way or other, helping other
!...ople to draw n'arer to God. The
 the Logh he at first opposed hind, soun
though his deep respect for his char-
showed hin acter. the LORD was with him.". Poti
(ause
phar folt quite safe in leaving all that to had in the hands of a young slave, fur
he also ""saw that the LORD was with him." It is always so. The worno
never fails to respect-inwardly, if no
outwardly-those who have the ...ather Name written in their foreh.ads." those
who are visibly sealed with "the seal of
the Living GoD." We can hardly fail to desire earnestly this outward, vistble
gign of God's favor. How then may

THE FARMER'S ADVOCATE.

## 

it be obtained? Fzekiel says that a like to be able to heal the sick, but he it be obtained? Fzekiel says that a like to be able to heal the sick, but he
man clothed with linen." goes through answered. "No, for how can I tell if it
the city to ". set a mark upon the fore is good for them to recover ? God will heads of the men that sigh and that cry for all the ahbominations that be
done in the midst thereof." We are left done in the midst thereof." We are left
in no doubt about the identity of this Man who alone of all the sons of men is
clothed in the pure linen of perfoct clothed in the pure linen of perfect
righteousness.
promises to promises to him that overcometh is, "1
will write upon him the Name of My will write upon anm explains that He
GoD,". and St. Paul ex
seals men by the Holy Spirit. When the seals men by the Ho!y Spirit. When the
Holy Ghost, the Comforter, makes the soul and body of a man His temple,
dwelling in him continually, the Divine dwelling in him continually, the Divin
Light shines out visibly, for the body is
like like a transparent tent in which the soul
dwells. It was said of Kexlle in his old age that "his face was like that of an
illuminated clock: the color and gilding had Iong faded away from the hands and figures, but the ravages of time wer
more than compensated for by the light which shone from within."' Did you ever realize the wonderful truth that our
Lord has faithfully promised to give the Lord has faithfully promised to give the
Holy" Spirit to those who ask ", ? We mut care enough for His Divine
mresence to "ask" eagerly, persistently, Presence to " ask" eagerly, persistently,
unweariedly - winning the bessing unweariedly - winning the blessing
as Jacob did-if we want, to influence the world for good. People can see certainly
whether the LORD is with us or not. whether the LORD is with us or not.
We have no business to "drift" through Whave no business to "drift" through
life, for God calls us to live strenuously all the time -and that doossn't mean that We are to be on the rush from morning
to night, for our strength must be " in quietness and confidence." Our Lord has declared that is the kingdom of heaven
suffereth violence" (or, as it is in the suffereth violence " (or, as it is in the
margin, "is gotten by force"), and margin, "is gotten by force "'), and
." the violent take it by force.".
Those who ask and keep on asking-like the Syropheniclan woman who would take no
denial-will certainly receive. Then, as denial-will certainly receive. Then, as
character grows stronger and stronger, it character grows stronger and stronger, it
cannot fail to exercise a mighty power
for good.


And all life not be purer and stronger
 holiness as unconsciously as a flower
kives forth perfume or a star sends out its light. The angels were eager to give
him sume miraculous power so that

ghi aspirations and devout bch=wiour Weish folik are thousands upon thousands of lises What do you think of that as
a live. presert testimeny to the power
of characur ing or worldy influence?
I turnud to annuther page of the newspaper and read that an annual attempt
is made o
inscribed the name of Lord Byron Inscribed in Westnilister Abbey. Why rom the roll of Englaulds greatest his marvellous brillinncy of poetic genius God does not give genius to everyone, but He does offer the infinitely greater gift of Holiness to all. Let us ea-nestpray and strive after this glorious
and mighty gift. If the beauty of the Lord our God be upon us-visible to ahlhen it will be sale to say to Him,
Establish Thou the work of our hands upon us."

## The work of our hands-establish

 Thou it.'How often with thoughtless lips we pray '
But He who sits in the heavens shall say the work of your hands so fuir That you dare thus pray Sortly we answer, Lord, make it at, -
The work of our hands-that may
Lift up our eyes and dare to pray,
The work of our hands-establish

## норе.

## Taught by Example.

There is a story tord of a chaplain in the army who, as he was going wounded soldier ly a battle, saw on He said to him, "Would you lik me to read you something from the the ? "I an so thinsty" said rink of water," 'The water was quickly brought. After he had drank it, he said: "Could you lift my head a little higher ?' The
chaplain took off his overcoat, rolled it into a pillow, and tenderly put it beneath the man's head. "I am
so cold," moaned the man, "if if so cold," moaned the man, ", if I
only had something over me." The only had something over me." The
chaplain took off his other coat and spread it over the man. As he did so the suffering man looked up and
said: "For God's sake, if there said: "For God's sake, if there
is anything in that book which will make a man do for another wha it."

No one is useless in the world who lightens the burden of it for anyone else A fault which humbles us is of more 1se than a good action which puffe us up

The Chost Story


nd I'll hold my a
No, rm not "your small boy
m my dear mother's joy nd I've growed up,
call me a man.
on my face soon will gtow
'ur like daddy's, you know
cou - feel the sharp prickles,-I'm
certain you can. rmat ntaid
rm not afraid now
of a pig or a cow,
gotbles so loud
My friend Major and me
Are as brave as can be
But a fat, fuzzy worm
ut a fat, fuzzy wo
had is covered with hairs like a round
aterpillars and sur $h$ -
don't like them mucl

My Visit to the Country


idn't feel much like bringing man The first patch we came to was a pretty
hig one oon a brush heap and as tigg one on a brush heap, and, as I
wasn't used to country life, i fell among :he briers when 1 went to pick the berries. After we had pricked a great many, but put very few in our pails, we
thought it must be near dinner time thought it must be near dinner time. gent to :iock berries. Ethel chose a nice
When we reached the house, the dind me to try to wis on the table, smelling nice. I inne of course, All the cows were Jersoys, and, joyed my dinner, very much. I suppose tearned to milk the time before when I "untie didn't care much about sending us was there, and I got quite a little in my
"guin to pick berrics. After dinner all frail before long Fithel and I didn't
of us went to see our otd friends. the milk long before we were tired and then
of of us went to see our ofd frinds. the milk long before we were tired, and then
of millivans, who lived about half a miks we played in the huy. Atter we were Sullivans, who $\begin{aligned} & \text { lived about half a miks } \\ & \text { frem auntic's. } \\ & \text { We spent a ved in the hay. After we were }\end{aligned}$
tired of playing there, we started for the

 my three cousins and 1 went with the thirteen little chickens. Ethel and I
men for a load of grain, and enjoyed our- caught the hen and every chick and took
seilves very much this part of the day by them to th. heshousco. "hure we fed them


Friends
was lar onl bed-time, and in the wand ing, mother and $T$ were going
few days with a friend of ours. few days with a friend of ours.
said good-bye, and asked them

After several days, we reached home in sifety, and father told us that he never
knows when we are coming home after knows when we are coming home after
we get away, and I think that may be rue. So ended our stay in the country
EDITH MEDD (age 12 years).
Langley. B. C.

Twelve Little Boys.
There were twelve little boys 1 would
Just think what a dreadful noise half, Thare's a doctor, a preacher, a farmen
lad, And one is a soldier bold,
Who rid's about with his pistol and
$\qquad$
$\qquad$ "t the sweetest of all is
sings,
Two little girls in blue
$\qquad$
$\qquad$
As only a baby can.
Who will cry and pout and fret;
Soluehow we think that he loves us all
For the clouds soon pass away
nd a swet smile dimples the tear-
stained face,

might kiss
ihese laddies so precious to me
tin just one poor, tired little boy,

The Second Mrs. Jim.

It sering that Jime "inicked" a litlle
tirst over the propesal to allow
family jament to lahe the place of
family jumt to tate the place
wedding trip, but the commen
rense arguments of the biride clect
riumphed over his orpections. bou
nd I can be married finst. and then
and I can be marricul finst, and then
well all go to the circus. There
ain't no reason why the children
mean things to do, and doin' 'e.n
while their pa is of gelling marict
believe in laking them along and
making them have so good a time
that they th look back on the day
begiming of the best time they ever
he boys were bound to Milence ly
he promise of that rare trea-a
isit to the town-and the proater as. look at mew in if thern reund and
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
he snusgled down mext to mee an'
was sound asleep, an' I couid almost guess what hisleep, an i i couid almost, was. The teans ahead und behind us turned off, one on the road. I was half dozin' mysse,f, as 1 hugged Frankie up close ront scat '. Jim was nodidin' on the $\begin{gathered}\text { think Mrs. Jim felt }\end{gathered}$ batile was won, as cach leas of her stumbled up the stairs to bed, with Haa." the record oi some of the wise but nelopen incasures the stepmother managing so that thoys, or rather fere that they were curing themdvantaqe "ays undesirable and disMeanuhile, we cannot wonder that hould erim with, ${ }^{\text {on }}$ I dropred inta fochlythair, for I was dead tired. m. age to ride for a woman of Gut tharrind an gonty-five miles, - Tou bee continued IT


Little Savings in Time and Work.
$\qquad$ hour), add dessertspoon satt, and abuit
the size of a walnut of lard (melted). Dear Dame Durden, -I am one of for
busy bees, who are always looking for
when there ways to make work lighter. When there
is only one woman in a house, and that house on a farm of two or three hundred
acres, she needs to keep her briin actlve acres, she needs to keep her brain active
to arrange all the household details. I find one of the greatest helps in house-
keeping is to keep everything in 1ts hace. On no account let your closets
nod pantry shelves get untidy. I find helves every morning. Ioaf; flour to make stiff enough to
handle without sticking to hands. Atter neading the flour in well, about ten when light, bake. Added points : in regard to the proper lightness, the dough should be twice the original bulk. Have al dishes and filour warm. If there is not enough water on the patatoes, add
enough to make the quart. Strein alves every morning arrange my pantry you can have. It is so much easier to ather fruit for dinner, and use it with
ream and sugar, than to make pudliam and sugar, than to make pud-
lings and pies; besides fruit and vege-
ables are more wholeso ables are more wholesome. In cooking
vegetables for dinner, I usually cook colough for two days, and I alwaylys cook think
the warmed-over dish is the nicar. Having a day for washing, ironing,
weeping, etc., is a good rube. By add-
 keeping. Being social with your netght
is also a help. You feel more like work
after spending an afternoon with after spending an afternoon
neighbor's wife and daughters.
nou a possible lumps. This is a recipe from
One of the Maide," and it is very good. Now. I cannot resist the temptation of telling you what my ydea of farm
and town life is. I am only thirteen and town life is. I am only thirtoen is very easy, as I live in town; but stul how nice it is to sit and listen to the birds singing sweetly in the trees. I am a true lover of nature, and my heart goos
out to the beautiful trees and flowera. and it seems that I could lith my volce
in praise to God for this boautiful hand of trees. I spent last week on the farm,
and I could hear more bilds 'and see more in one day than in a whole week in town. Hoping Aunt Matilda will have sign my name- an APRIL BIRD. P. S. - I intended to say that I would
fike to see a society formed to keep Words of Dear Dame Duprecieplon. Dhave lang
thought of writtng a letter to the Ingle throurgh of writting a letter to the Ingle Nook to say how I appreciato it, and the
helpful letters it contains. It is the
first page I turn to when the "Furmer" Arst page I turn to when the "Farmer's
Advocate ". comes. I find Helponabit'
way of washing and way of washing a great improvement to
the way $I$ had been accustomed to doing the way I had been accustomed o do doing.
I have also seen greatly helped by I have also कeen greatiy hoiped. Wy.
the recipe for bread given hy Mra. C. W.
B. In fact, every paper contains someB. In fact, every paper contains some-
thing helpfuli; but being a young hoouse-
keeper, I have not much to sive in ro keeper, I have not much to give in ro-
turn. I might send a few tried reeipes,
if I may come again. Will close, by
Ask your grocer for both.

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Toronto



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 of the
## Cracker

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STAMMERERS

## With of Folowers

## Sowing Seed.

When sowing seeds, cover coarse ones to twice their depth, then
press down with a bit of smooth board. Fine seeds should be sown on the striface and pressed in, being order to avoid sowint wry fine ced too thickly mix it with a little
sand, then scatter where ne ded sand, then scatcer where ne ded.
very fine sprinkler or a spray should
be used for watering after the seeds
 blooming.

Domestic Economy
to Remove stains.
All women in Harper's Bazaar.
vinegar and salt will remove stains rom brass. Make it into a paste rub off with a dry a piece of flanne Ink spots may be successfuly moved from white goods with lemon and salt; cover the stain with fine and ryue between the hands. Some ink is obstinate and will require
second application. Ink may lee . moved from colored clothes by soak Midew will usually disappear if
soaked in sour mill and then drice in the sun, then washed in the usual
manner. Chloride of lime also will manner. Chloride of lime also will
remoove mildew slains. It must be
L.sed carefully and nuth diluted. Pour boiling water on linen where
pea has bien sillal. tea has beng wither, on linen on where ruit stains. It the stain is large
br obstinate, whisky, will do the
work; the article work; the article may seem ruined
$\qquad$ al oil will remove iron rust and ; though water were being used herosene and a moth suap used ont Machine-ril stams are easily takell

spots. It must be left on for some
hours and then hrushed off.
Equal parts of water and vinega
will remove fly stains irom inmi Equal parts of water alld vinegar
will remove fly stains irmi inni-
ture ; apply with a soft woollen
cloth and rub dry.
A damp "oollhn cloth dipped in
dry table salt will rimove all traces dry table salt will fimove all 1 race
oi egg stains from silver. A plece of flannel dampened with spirits of camphor will quickly
move stains from mirrors or wit dow-glass and leave a brillian THE RES'IFLL WOMAN.
". She is the cluverest woman o
my acquaintance," was the verdio my acquaintance," was the verdi, cause she is not in the least
and yet manages to be restiul.
hnow so many bright women- tri h
in all sorts of dillerent ways, bu
 never reposeflul. They are
strung up to concert pitch. They
amuse jou, charm you, stimulate
you, dazzle jou-but they never


Dull, placid, stolid women are mol apt to be exasperating than sooth
ing. The full hfe that flows smoot
ly is hard to altain. And yet the greatest service a modern mother
can d, her children is to bring them up free from nerve-strain, whith she cannot hope to accomplish if She
is always on the strain herself. The
nother who radiates peace radialus inother who radiatcs peace radials
strength also. The resulessiness, the strenyth also. The resllessness, the
noise, the rush of the li'e of ic day, make it all the more necesstry to maintain within the home an at mosphere of serenity and sweetacss
so that, the threshold once crossed the outside noise and clatter an strife are left securely behind.
is, perhaps, an old-fashioned is, perhaps, an old-fashioned con
ception of home. Many wome nowadays want to turn the hon
out in the strect, so to speak, ani make the worlds work wevery thing and the home life nothiny
But a restrul home, once experi noct is a joy above the promises of pri
cress to disturb: and a restfulgress to disturb; and a restul-an
intelligent-woman alone can mak

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simple it is haw eacily it skims, how eacily easity it te turns, how perfectly it durable it is, you would at once decide strong and
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rourhs which also leak and wear out quickly.
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Thomas Brothers, Limited


MAY 18,1905
THE FARMER'S ADVOCATE
The LEAVENWORTH CASE
re-entering, that she had consented to al-
low the woman to lie before the kitchen
fire for the night.

Chapter xxviil.-Continued Perhaps you may be willing, then, to
The truth is It give me some advice. The truth ist from which I don't know how to escape,
and yet which demands immediate acand yet which demands immediate ac-
tion. I should like to tell you about it, may You may ; I shall be only too happy
: to give you any advice in my power."
She drew in her breath with a sort of
vague relief, though her forehead did not lose its frown.
It can all be said in a few words. "It can all be said in a few words.
have in my possession a packet of papers
which were entrusted to me ty two ladies, with the understanding that ${ }^{1}$,
should neither return nor destroy them, without the full cognizance and expressed
desire of both parties, given in person or
writing. That they were to remain in my hands till then, and that nothings or
nobody should extort them from me." nobody should extort them from me.
" That is easy understood," said I, for
she stopped. sin But, now comes word from one of the
Indies, the one, too, most interested in
Inter the matter, that imediate destruction of those papers is she, " and charity is my only luxury,
you know.".
The interruption of this incident effectu-
ally broke up our conversaticn. Mrs. ally broke up our conversaticn. Mrs.
Belden went upstairs, and for some time
timern


## The Noxon Company, Lto.



Noxon Front-cút Mower No. 3.
Agencies at all principal points, or write direct to
THE NOXON COMPAMY, LIMITED, - Ingersoll, Ont.

TRADE TOPICS HOOVER POTATO DIGGER--A ma-
chine that has attracted wide attention chine that has attracted wide attention
and won much commendation wherever exhibited or tested is the Hoover Potaexh Ditger, or tested is the Hoover Pota-
to Dignactured by, the Hoover-
Prout Co, Prout Co., Avery. Ohio. Built to work
and to wear, it is an and to wear, it is an implemnet that tato field. See advertisement in this
issue, showing cut of the machine issue, showing cut of the machine, and rrite at once for catalogue, mentioning
this paper.

What Rheumatigm is.-Rheumatisn is a doep-seated, dangerous disease caused by the absorption into the blood
of effete reluse matter, which should be
carried carried out of the system through the stroys the purity of the blood, and de it circurates through the body. the ach the nerves, muscles, membranes and even the bones. In acute articular rheuma Asm, the affection usually commences sudloints sometimes pain or someness in the disense. The joints become swollen, parellow, and the smaller ance, ankle, wrist. hands and feet. Acute rheumatism
is always thentified with less feverish condition more or cuse perspiration, especially at night,
same belinit strongly acid. showing the name being strongly acid, showing the svstem
polsonous
is
particles. fiem is the same as the Chronic rheumamilder and less rxtenderl, thourh. acute form, but ure. Musculs $\begin{gathered}\text { rersistent and dhen difficult to } \\ \text { to }\end{gathered}$ uder two forme. atter as in articular rhmumatism. not so on the systcm. unhealthy system. Witith the blood in an surden changes in the weather. sleephimv hetween damp sheets. sitting in a cold. damp ronm, resnerinlly whon heated from exercise, or nn acutr attack of indiges-
tion is sufficient to briny on an altack of theumatism. in thme. who have never belore experienced this diffculty, and cause
vinlent attarks in those who are lect to it. Vitem-Ore, the natural sumbal medicine advertised extensively in theepe columns, is recommended to cu rheumatism. even in ehronic cases: being
a powerful hlood nurifier. it soon hrings about a complete and radical change in the efrculation It is absorbed into the hlood, neutraliztne the acirl secretione,
rendering them harmless for evil, and gradually bltminatrs thrm from the system. In kevere races it krene the hlod
in a good rondition. Theo Noel,
 the proprietor, of Vi,..ary. wants in
send a full-sized, 81 parkage of this re
 er of the "Farmer's Anvocato " who
ailing and in need of medicinal trea
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this offer in writion a penny unless
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Mr. Wohn McFarlanc, Iutton, (unt., a
vertises for sale three registered Shor
horn bulls, six to twolve red and roan, which he is onths old.
tempting prices. Wring at
Write him for

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 advertisement in your paper for the sale,
all but one. of the young bulls listed.
One has gone to be One has gone to be shown at atls listed. this year along with a two-year-old
heifer, which I expect to sce wint heifer, which 1 expect to sce win. Th
young bull 1 ofier in my chang. of ad
vertisement is a really first. year old on the really first-class one,
the Bruce Mayril. H. Mo is of Toronto champion of last year. With such sires in use in his hend as the im
ported Scotch bulls, Merryman $=32075=$ ported Scotch hulls, Merryman $=32015=$
Pride of Windsor $=50071 \beth$ and Nonpareil Ahourd produre the highest class of stock
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Srd. $-1 / 2$
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Miscellaneous.
breeding two-year-old fillies
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## Josiph indgirs of ents <br> SHR FFIELD, BNGLAND.


Jamas Hutten \& Co., Montreal, soin Amanro


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no rallion rising 2 years. For rising 3 years,
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OUESTIONS AND ANSWERS Veterinary.
chronic cough and eczema Horse coughs and bites and rubs him--
self as though he had some skin disease. Would bots cause the hiting ? A. D. P. Ans.-For the chronic cough, sive a
ball every morning composed of 2 drams
solid extract of belladonna. $1 \ddagger$ drams solid extract of belladonna, 1t drams
powdered opium, 1 dram camphor, and
20 grains digitalis, with powdered opium, 1 dram camphor, ancle
20 grains digitalis, with sufficient treacle
to make plastic. to make plastic. For the eczema, clip
him, and if he has not shed his coat,
wash tho ham, and
wash thoroughly with warm, strong ofoft
soap suds, applied with a scrubbing
brush, and then dress wice brush, and then dress twice daily wit
corrosive subtlimate. 40 grains ; water, quart. UtERINE Discharae. Aged mare had inflammation of the
womb four years ago, and this was fol-
lowed by leccorrhara, lyut there has been no sign of this disease for two yeurs.
There is now a discharge of blood when
she lies down. There is now a discharge of blood whe
she lies down, hut at no other time. Ans.-The blood evidently comes fron
the womb, clse it would be noticed dur
ing urimation. Inject the womb ont ing urination. Inject the womb onc
daily with 1 quin water a t 100 degree
Fahr., in which is dissolved $\$$ ounc Fahr., in which in dissolved oun
powdered alum and o ounce carbolic
acri. This can be introduced into the
womb.
 sumfiently hong to reach and pas
through the nek of the womb. Give
internully, twioe daily 1 ounce tincture
ing internally, twio daily 1 ounce tincture
iron in a pint of ocold water as a d dench
until blood ceases to pass. If she b,
comes constimated eixp 1 . comes constimated, give $1 \quad 1 \mathrm{~h}$
seed

Miscellaneous.
Raising roots wither cap yeliow dent 1. Will it pay to raise routs for cattle
in they have to be pitted?
2. Is White Cap Yellow Dent a gordl
rodder rodder corn, and will it ripen in in
averugco season?
d. D. D. Ans,--1. Yes; pitting is not expensive
and if properly tone the roots will kee
quite as well as in a cellar quite us well as in a cellar.
2. White Cuy Y Yollow Dent is a con
paratively early dent variety, and your section It is not, of course, so
heavys, a yeldir as some of the later
kinds, such as I, caming and Wisconsin
Farlint White lient Farlicst White Dent.
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Ans.-A Manitoba farmer reports thit
anything less then a 25 -horse power is t. nyything less then a 25 -horse power is th
suall for best results.
He now uses
30-horse power, which it none too large
it travels from $2 f$ to 3 miles per hou nd is copult in hauling power to 3 l
orsparison, as a rule
ors.
holds good, whatever the rating of the holds good, whatever the rating of the
congine if in good order), whether 20 ,
or 30 , horse power. For ten hours wor
it fill
cupacity it will at full capacity it will take about 10
lbs. of Call ynine coul per horsepowe
On clean, it will. in tun hours, plow ond
acre per howsopower, and will use ubou
two barrals of water per atre; oill abouy
two quarts per dan
 hawl whter mol coal Two miles per
hour, buctuding stop for water, etc., is
good time, so in tent home we can go 20
miles, and 1 may ordinarily expert to


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\(1+\) acres per mille: with them 20 inilus
dowe 25
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MessRs. U. V. O'DANIEL and R. P. WATERS, menamers and salesmen, London, On adoness: J. CROUCH \& SON, LONDON, ONT. Have just recelved a new Importation of 131 head of higli-class Fercheron,
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#### Abstract

"Judge not", but jump in and be full the idea that it takeas work and worth


 and cone tiea that it takess work and wortheandion and the ablitity to learn trom those whom superficial per-
sons think aros not much" to win in sons think are " ont much"
life's race.-ILive-stock Wortd.

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## MEAT inspection AT chicago The United States Government, through the bureau of animal induetr of the De partment of Agriculture, has set up a <br> $\qquad$

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 Inspection invited. Oatalogues on application. JOHI DRYOEN \& Soll, Broollill P.O., Ont. Spring Grove Stock Farm SHORTHORM CATTLE \& LIMCOLI SHEEP. ?


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making a special offer For ful particuar
addrees. B. BULL


The April issue of the American
Guernsey Herd Register and Breeders' Guernsey Herd Register and Breeders
Journal, published at Peterboro, N. H.,
contains pedigrees of bulls numbering contains pedigrees of bulls numbering
from 9,662 to 9,827 , and females from
17,952 to 18,228 , together with Advanced Registry records of cows number-
ing from 225 to 272 , also report of an-
 Feb. 1st, 1905, an article from the Eng-
lish Live stock Jounnal Almanac on
doings of the breed in Britain, an essay on founding of Guerrnsesy famili,es, by Dr.
M. B. Wood, and a number of excelle Mr. Robert Miller, Stouffille, Ont., roports the following recent sales of Short-
horns and ponies:
Forgie. Claremont. Ont., the Mr. John
Toon five-year-old imported cow, Rosie Dorothy,
sired by the Bruce Augusta bull, Justice
(70898). dam Lady Dorothy (70698), dam Lady Dorothy 44th, by
the Victoria
bull,
Scottish (69557). Rosie Dorothy won first prize
at a good show in Aberdeenshire in
1903. Her bull calf now just past twelve months is as as promising as any and just past nung bull I have imported, and ase is
nearly due to Cronje 2nd, a Marr Clara
of the finest breeding. and of are ity, now at the head of Guy Beeat quall- herd,
near Brampton. I also slipperd to-day
wo beautiful two beamptin. I also slipped to-day
two beautiful ponies, sired by a Hackney
atallion, and from imported Welsh pony
 and have wonderful action and stamina.
They are a beautiful matched team, and
go to Mr. Chas. E. Bunn. Peoria, Ill., the president of American Shetland Pony
 Bruce County, Ont., is Wem. McIntosh, of of
Burgoyne, who has been breeding shortBurgoyne, who has been breeding short-
horns, Clydesdales and
Leicesters for
several years. several years. H1s herd of Shoresthorns
is small in numbers, but large in Scotch




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E. T. CARTER \& CO., . Toronto.


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Sargater of the Fent of Eemmor Marnh
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AdAFoss: HOWBEAT HOUSE, MORFOLE ST. LOMDOM, W. C., EMGLA
DORSET HORN SHEEP and SCOTCH SHORTHORNS The lattor repreeenting the Nonparoli, Mise
 nerrs and more St. Lo inis prize ewinnerg than an
other flook in the world. Stook for sale al
wayy on hand. John A. Hegillivray, North Toronto. Ont Oaford Down gheop. Shorthora Onttio,

We are Importing Shropshires LLOYD-JONES BROS., Bupford, Ont.

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Tanviorth Swhic and Shortion Cattlo Wo havo for quilok eale some 50 hond of Thmo


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OOLWILL BROs.
oastle, ont
Ane boare at for servioe ; aleo
 thock, Prices roasonable. Dlekson, Orono, Ont.
Glenaira Farm. TANWORTHE AND HOLSTEINE
 choice lot of bull calves, from 1 to 6 monthb old
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 Breeder of
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HAD TO GVE UP ALTOGETHER AND GO TO BED. DOCTORS DID FRR 10 GOOD.

By the rume hase L. L. Hancom Whree inice N. Bo, hid miten Mrec Bozes, of Millindis she Was completely cirou. She priten no frillown:-





 Toworn former
 Tine T. Mirnount Co.,
 hamede oomblad. Wo mon more broed orition al

 D. O. Trand ohamplone. Prome remonable MILLOROVE, ONT
 Have some nimo thinge troe. four and hvo
 BERKSHIRES Bit it time to by Borkhiro boar. 1 havi 6

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der for a pair or trio not akin. me book you L. E. MORGAN, Milliken Stn. and P.
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Winnorg of pold modal three years, In suoobe
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eives. When Ioffer you a care, and am willing eives. When
orisk my professional reputation in curing you, ard have such fasith and contidence in my con-
innued suceess in treating these diseases that not
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ant I mean what I say. and do exact'v as I ad.
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vase, which I give you free of charge. I want
 chronic. nervoros. blood and skin diseases which
Ircept for treat ment in onl care the con-
dition itself, but likewise all the complications,
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England, will arrive in May. We have for sale choice lot of young sows, brad ; aleo boars
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 H. GEORGE \& SONS, Crampton, Ont. ENGLISH BERKSHIRES. Wor Greos tho Dochose of Doronhir''s Borkhly Bord. pion againat all breeds in carcass competition
London Fat thock Show. The broeding soon are sired by the champion boar, Baron Kit
chener 8403. Polegate Decoy Polegate Dame
Pole Polerate Dawn-winners in Rngland, Canadi
and United States-were exported from thif
 Eastbourne, Sussex, Fngland. Large English Yorkshires and Berkshires Only choico etook kept, imported and home
bred of moott approved type; eelected with
oreat oare and pit oig to great care and at high prices, We ship, ex
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We want you to know about Liquo- the world to you. Its effiects are ex - $\mid$ Dyspepsia
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it is a germicide so certain that we you more than we. So we ask you to it is a germicidery bottle an offer of te- to try. Let it prove that it does $\$ 1,000$ for a disease germ that it canwhat medicine cannot do. See what a not kill. The reason is that germs
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| Give full address-write plainly. |

GOSS\&
USTIC balsam gives wonderBerlin, Ont., March 22nd, 1904. O. Lawrence-Williams Co., Cleveland,
O. I have used several bottles of Gombault's Caustic Ralsam, and found won derful results. Kindly send me full in
formation in regard to agency, as nearly Il who once give it a trial want a bottlo m. S. strome.

The River View Herd of Scotch and The River Vlew Herd of Scotch
Scotch-topped Shorthorns, owned by Mr.
A. J. Rowand, of Dumblane, Ont., was stablished several years ago by his
ther, who was for several years M. P father, who was for several years M. P.
for Rruce County and was not satisfed
with anything but the best in the stock Mr. Rowand has a hall interest
Scott's Choice $=49670=$, by Prince Sillam. (imp.) (77531) $=32088=$, dam
Will mp. Meriam $=38218=$ of the Bruce May-
ower tribe. This bull has left Mr. Rowand some prime quality young stock,
mong which is the soggy, thick, oighten-months-old bull, Stamford Prince
$-52417=, \quad$ dam Golden Bracelet 12 th $=52417=$, dam Golden Bracelet 12th
$=28248=$, by Stanley of Bruce $=17665=$, great-grandam by Young Abbotsburn
$=6236=$ nnd tracing to Imp. Stamford th, bred by W. S. Marr, Uppermill,
aberdenshire. This young bull is in his prinie, and is in grod working form, and
likely to develop into a big, good one. The females in this hard are mostly by
Word Lynden, a Watt-bred Crimson Lord Lynden, a Watt-bred (imp.), and
Flower, by Lord Lansdowne (iks.
Chas. Wilks $=28805=$, by a son of Abbotsford, the great show bull. The
hief familles represented in the herd are Scottish Maid, Bracelets and OruickShank Duchess of Glosters and Roseharys, has produced good results. This bull is for sale or exchange, and should
be immediately picked up. For further particulars about him, seo notes on Mr.
Scott's herd in this iseue. The two Scott's herd in his issue. hhe e mille
herds are located about hals a
apart, and have been bred with disapart, and have heen inexpense being
criminating judgment, no ext
spared to get both good breeding and spared to get both good used. In in-
good quality in the sires
troducing them to our readers, we do so troducing them to our readers, we do so
feeling confident they will deal uprightly weling confident they wheir way. If you
with those coming their want a good young bull, call and see
those mentloned. There is no good rea-
son for sending hway nem son for sending away a few hundred
miles or a bull. when you can get one
near your own door, equally as good at lower price. __

A few miles from Port Elgin in tho County of Bruce are to be found several Ood herds of Shorthorns, among which
that of Mr. John Scott. of Cedar Vale Stock Farm, Dumblane P. O., Ont., takee no second place. At the head of the
herd is the red bull. Scott's Ohoice herd is the red bull. Scotls (hoipe.
$=43870=$, sired by Prince Willam (finp.) $=82088=(77581)$. dam Merlam (imp .) Bruce Maynowrr tribe, and is a maesilve hick bull, well filled up, without patchiness, weighing prothably 2,500 libs., with
mality to match. He has been a first rize winner whrever shown at loca
chows, and we would expect him to stand well up own at the large exhlfi-
tions. He is splendidly bred (along the He is splendidily hred (along the
tions.
same lines as Imp. Prince Sunbeam, the same lines as Imp. Prince Sunbeam, the
champton of 1904), and has six Cruickchampion of 1904), and has six Crutch gree. He has ben hred successfully of
three years in the herd, nud as it is no convenient to use him much longer, his
neresent owners will sell or exchange him
for another if they fen fin for annther, if they can find one equal in
fuallty nod hremding. Among the grand ynung things that he has left for
Mr. Scott. Mr. Scolt, and which are for sale, is
Lovely Lad, a reed bull, about elighteen months old, from Lovely Inss, hy Lord
Iynnten, a Watt-bred Crimson Flower, by
 siderable Marr hreedling in his pedigree.
This youngster. we should say, has This youngster. we should say, ha hreeding his bring placed in any and to
warrant his Mr. Scott is offering him extremely how,
nnd there are very many that should nnd thre are very many that shoul
have just such a one in their herd. W
nlso noticed a seven-months-old bull call


6OOD HEALTH

## AND SUCCESS

Go HAND IN HAND WHEN THE BLOOD IS KEPT PU
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Stone in the Kidneys Cannot Stand Before Dodd's Kidney Pills.
Mr. S. A. Cassidy, of Ottawa, Permanently
Cured Aflor Yeats of Surforing, by the
Gireat Canadlan KIdney Pemedv OTTAWA, Ont., May 15th.-(Special).--
While all Canada knows that Dodd's KidWhile all Canada knows that Dodd's Kid-
ney Pills are the standard remedy for all ney Pils are the standard remedy for all
Kidney Complaints, it may surprise some
people to know they cure such extreme cope as Stone in the Kidneys. Yet that is wha
in Ottawa. Mr. S. A. Cassidy, the man cured, is
the well-known the well-known proprietor o
Hotel on Metcalf Street, an
terview he says. hat I have been a
he Kidneys for year besides consulting th
city, and trying eve think of. I was unable medicin Some time ago a friend told me I I could not imagine more severe sufin the Kidneys. If the disease


OUESTIONS AND ANSWERS Miscellaneous

LUMPS IN COW's teats. I have a cow with hard lumps in both her hind teats. They were there last
summer, and she gave bloody millk out of these teats at times. The lumps are about the size of large peas, and are
situated up near the udder. Can you give any treatment? Ans.-These lumps are a cause of fre quent trouble to many dairymen, and the
only way in which a cure can be effected only way in which a cure can be effected
is by an operation with an instrument called a concealed bistoury in the hands of an expert. Better feed her for the the abattoir bili. 1. Would the bill, now before the On-
tario Legislature, to grant exclusive tario, Legislature,
rights
to
establish public slaughterrights, if passed and acted upon by the municipalities, have the effect of pre venting further operation of what ar
known as farmers' beetrings? upon as mentioned above, entirely de stroy competition in cities and towns in respect of the killing and sale respect of the killing and sale of cat
sheep and hogs in such municipalities sheep and hogs in such municipalities?
FARMER. Ans.-1. No. ${ }^{2}$. It would, in respect
of the matter of killing: but we think the bill as at prese
farther than that

## a QUESTION OF CONCBPTION

## It has been stated that if a cow served by two or more hulls during

 served by two or more bulls during oneperiod of heat she will not conceive period of heat she will not conceive. Is
this true? If not, to which is she most likely to breed. J. B. L.
Ans. -The statement is not true, as has Ans.-The statement is not true, as has
been proven in many Instances. It is impossible to state to which service the
cow will concelve; but if a conception cow will concelve; but if a conception
takes place it will be when the female ovum (egg) comes in contact with a
male spermatozon (one of the living elemale spermatozon (one of the fiving ele
ments in the semen to which it owes its ments in the semen to which it owes its
frcundating power) and is fertilized by
it. In other words, when the ovum meets its affinity, which may be any URETHRAL ALLMENT
$\qquad$ fall, has been with the sheep all winter
I found, when shearing, that his penls was out and very much swollen and in-
flamed so that he cannot draw it into flamed so that he cannot draw it into
its sheath. Khat is the cause? What can I do for him? Will he be any use
next season? J. R.
Ans. - This may be caused hy the wool
on the parts being fould, and causing in-
flammation, in which case washing with

## Why Experiment?

YOU want profits-not losses-in return:\%or the kime, labor and expense invested in YOUR dairy. Don't you? Then-Why Experiment? YOU will admit that the most butter from YOUR dairy, of the best quality, means the greatest profits. Then-Why Experiment ? YOU cannot afford to invest YOUR capital, time and labor in any but the most practical dairy methods. Then-Why Experiment? you have the choice ; the most butter of the best quality, or less but ter, and quality a costly uncertainty. Why Experiment? YOU KNOW what YOUR choice should be. Why Experiment

## mime U.S. Cream Separator <br> will save YOU the long, unsatisf

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Lrery highest score On Dairy Batter in each coring four great butter WORLD'S FAIR ST LOUTS 904 , including $\mathbf{T h}$ sweopstakes in the airy Class, was awarded to he product of the U.S. CREAM SEPARATOR against the Forld. "U. So" Quality

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Most of the paine, moos of the woaknoes of stomach, heart, bratn and nerves, from which men suffer are due to an aarly lose of natureis reaerve pour moy bo mbappy un my man that liveo.
 I"Inow how skeptical people are after paying out hondreds of dollars without getting any benefit, and know that many wout pely In will as renge it with necessary attiochments suitable for jour case, express it to you, and you ean
Wear it Until Cured and Pay Me When the Work is Done. Use My Belt and Be Strong. Moret of the ailmenta srom which men suffer cone bo I have cured thousands of men who bave squanderto bed; you feel the glowing heat from it (no sting ad the savings of years in useleses doctoring. - bers, oe in old style belts) and you feel the nerves tingle with ohe new life flowing into them.
uop the the aorning feeling tilce a two-year-old.
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 young as he did at 35 . Thet feols as atrong and vigor of youth. It cures Rheumatism, Sciatio Pains, Lumbago, Kidney Trouble. It banishes pain in a night, never to ney Troub
return.
What

What ails you ? Writo and tell me, and, no matthat Nour Belt holped me wondorraly. I fom wedl satigflod ter where you are, I think I anan give Jou the address


This drain upon your power oauses all kinds of de cause it is honest. It does great work. and those

IVvery man who nsee my Belt gets the advioe and counsel of a physician frea I give you all that any medical man can give, and a lot that be can't. Try my Belt. If you can't call, write me to-day for my meantiful iltustrated book with cuts showing how my Bolt in applied and lote of good reading for men Whe want

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