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## 12 IN 1 SHOE POLISH

TABLE OF CONTENTS.-The hist of Contents in this issue of the "Farmer's Advocate" will be found on the page

## Portand Cemen

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Unloods on either side of barn floor without
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It makes smooth cream, which
is easy to churn.
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or to the manufacturers,

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"IIMPERIL" PUMPIING WIIDDIILL Oatat whioh won the CEAMPIONSHIP O

 aceerp the thae Ereotat
 boat, and you must harot

Woodstock Steel Mills

When fitted with GRAPR withoutolin no morechymb
NG TOWERS TO OIP Grinders, Pumps,Tank and Saw Benches.

W00DST0CK WIND-MOTOR CO’Y Limirrid
WOODSTOCK, ONT FOR SALE:
AN IRON SUSPENSION BRIDE 36 feet long; planked and in good order. C. 8. HYMAN \& CO.. TAMNERY London. Omt

WARREN COWS CURED MOORE BROS. V.S. S.

## WHY RUPTURED?

You can be Cured at Home, Without Pain, Danger and No Lose of Bad (in MR. JOHN MORRIS, inas. Ont., is cured oft
dangerous dangerous rupture ad lost los all ruptures can bo cured Mothod sent shaled

 Me Sam a Blemel







## LAST MOUNTAIN VALLEY

## Have You Made Your Selection Yet? If Not, Why Not?

## Price is now S8.10 per acrea. On Juna Ist the price will be 59.10 per acere.



WE SELL ON EASY TERMS.
A splendid district for speculative purpurposes, but better still for farming.

Write us at once for full particulars.

The railroad is now under construction into the heart of the district, and PRICES WILL STEADILY ADVANCE FROM NOW ON.

Settlers are pouring in rapidly, and the country filling up with the best class of farmers.

Seeding this spring has been remarkably successful, and is now about over.

WM. PEARSON \& CO., 383 Main St., WINNIPEG, MAN.
In answering any advertisement on this page, kindly mention the FARMER'S ADVOCATE.
cossip.
Aren't jou angry because your hus"I don"t know yet,"" answered young irra. Torkins. "I haven't heard whether
he won to-day or not." "My idea of a wise man," sald the youth who thought he knew things, is ${ }_{\text {an }}^{A}$ man who possesses the genuine brand of wisdom," rejoined the venerable
philosopher, "knows when not to bephilo

A libbor organizer was recently addressing a large open-air meeting, when tumbling over the heads of the crowd
came came haghter which this occecisioned had subsided, the Irishman, Hike a true son of his country, turned the tables on the
cabbage-thrower by shouting. "It's your cabbago-thrower by shouting. "It's your
ears, gentlemen, I want, not your bears. ${ }^{\text {geds. }}$

King Edward, like others, occasionally takes great pleasure in telling a joke on
himsolf. Here is one which the New York Times repeats: Queen Victoria while in Scotland during
the boyhood of Fdward was fond of the boyhood of Fdward was fond of Hver and spending lohg hours over her water colors. The little Prince of Wales usually accompanied her. On one of
these oceasions he found time rather heovy and cast around for something
with which to amuse himsell. Near by with which to amuse himself. Near by
he espied a bare-footed, kilted Highland ho espied a bare-footed, kilted Highland
boy of his own age building a sand boy of his own age building a sand
cestle. Edward went up to him and calmily ricked the castle over.
"Dinna do that again," said the boy.
He rebuilt his castlo of sand, and once He rebuilt his castle of sand, and once
again it collapsed before young Edward's royal foot.
"If ye dae that again--uilt the castle There whird time. for third time.
Out shot
The next moment his Royal Highnees, the future King of England, was rolling
in the sand with the infuriated Scotch in the sand with the infuriated Scotch
boy, whose fists were flying like a windboy, w
mill.
Ind
Edward howled for help, but Queen
Victoria, who was an interested witness, Victoria, who was an interested witness,
sat still and allowed the dilted lad to edminister punishment to his heart's content. When the prince eventually reached his mother's side, nose bleeding, and "Iraggled, the Queen ot."

Rev. Dr. Rainstord, in his new book,
A Preacher's Story of His Work ," has A Preacher a scory in tories to has some very interesting stories to tell of he experiences when he firgt took up his
work on the East Side in New York. He says, in telling of one of his experi-
ences: ences : remember one man in particular-a blg, strong fellow. He came in and sat down in the Sunday school (by this time I had some of the very best teachers I could find working there, and I always
put the best workers I had there), and began to talk In a way that a man
should not talk to a lady. He was a should not talk to a lady. Ho was a
little drunk. I saw the lady's face little drunk. I saw the lady's face
fush; I walked over and told him to get (He would not move. I said:
out.
i. We are here to help you peoppe : we .. • We are here to help you people; we
are paid nothing for it ; now, you are are paid nothing for it, now, you are
enough of a man to respect a lady; why enough of a man to respect a lady; why
do you sit here and make it impossible for her to teach those boys? ?
" He swore at me and would not get ". He swore at me and would not got O." You don't want me to call a police-
man, do you? Go out quietly." ". He jumped to his feet, and I saw was in for a row. He was as big a man, but I hit him harder than I ever hit a man in myy hife, and knocked him
down. Then I stood over him and saidd down. Then I stood over him and saild: " He said, 'Yes."
". 'All right,' I answered; ' now get
out.' And he went. out." And he went. into a scrimmage outside the Sunday into scrimmage outside theom with some toughs, and, to my horror, I saw, elbowing his way
through the crowd, this same burly through the crowd, this same burly Yellow, and 1 began to feel that, betweon
him and the others, I would be tllled,
when when to my astonishment he walked up
to the ringieader and sald.


## DeLaval

When it comes to full advertised capacities in
Cream Separators-well, there's where the cheap machines are deficient again. The DeLaval figure is not padded; it's all there-guaranteed.

Catalog Free $\qquad$ Seven Styles

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## No Need to Sweep Hard.

Too hard sweeping is, without a doubt, bad for some carpets, and it is hard on the sweeper. A too violent sweep is quite unnecessary with

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is what the lad is after. It is a decided
lon to ny boy to. any to attempt farm-
ing without a business education. The


COLLEGE, London.Ont.
makee a groinalty of preparing young
men in buxinets methoda.
J. W. WESTERVELT, Principal.

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Write for descriptive pamphlet
ALGOMA, THUNDER BAY,
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INCREASE THE PROFITS FROM YOUR FARM.


A GOOD INVESTMENT, Beautify and improve your property
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FIREPROOF BAR AND ROOF PAIITS, Sold at wholesale prices and guaran-
teed to wear. Write for prices. MONARCH PAINT CO. Strange and mastern Ave.。 Toronto, ont
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 A Company with an unparalleled low death rate,
1ow expense rate, and earning over 6 per oent. on



## ELMIRA HAY-MAKING MACHINERY.



THE SIDE-DELIVERY HAY RAKE and HAY LOADER
are the Greatest Time and Labor-saving Implements of the day. They will repay for their cost in a short time by curing and saving the hay properly, and in saving of extra labor.
substantlally built.
will last a lifetime. Write for olrculars,
prices and terms.
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Vol


## Che

# Farmer's 

Xidvocate
"PERSEVERE AND SUGCEED.

# and 

 Home Nagazine.Vol XXXIX
LONDON, ONT., AND WINNIPEG, MAN., MAY $26,1904$.

EDITORIAL.

## Township vs. District Agricultural Society Grants.

li.e understand that some of the Township Agricultural Societies in the Province of Ontario are complaining bitterly of the arrangement under which, in the distribution of Provincial funds, district societies secure a larger grant than the township societies receive, although many of the latter clain to be conducting decidedly the best fairs, and doing the most good.
According to the Agriculture and Arts Act, district, township and horticultural societies organized or recognized thereunder are entitled to grants by complying with certain conditions as to membership, reports and returns to the Minister of Agriculture, holding annual meetings as prescribel,
and expending funds in harmony with the objects and expending funds in harmony with the objects
of the society. The division of the legislative of the society. The division of the legislative grant for each district shall be made as follows :
(a) An amount not exceeding $\$ 420$ shall be subject to division among the Township and Horticultural Societies of each district, to be divided in proportion to the number of paid-up members of the previous year, as shown by the treasurer's audited statement and the certified list of members sent to the Department, provided that on or which the first day of september of the year in which the grant is paid the treasurer shall make current Act , but any one society shall nection 19 of the than $\$ 140$, nor stiall ny one society eceive more than three times the amount reported as paid up by its members, and not more than one hundred and forty members shall be counted for any one society in making the division of the grant. 59 ., c. 14, s. 6.
(h) In case a Township or Horticultural Society is situated within two districts, it shall recile from each of the grants made to these disthe number of its members in each case
(c) The remainder of the legislative grant for each district, after thus paying to the Township and Horticultural Societies (if there are any) the moneys to which they are entitled, shall be payable to the District Society
(d) The district of the City of Toronto shall not receive more than $\$ 550$ in any year; and the districts of the City of Kingston, the City of Hamilton, the City of Lcndon, the City of Ottawa, the Town and Township of Cornwall, and the Kown and Township of Niagara, shall not receive more than $\$ 350$, respectively, in any year
(e) The districts of North Muskoka and South Muskoka shall not receive in any year more than $\$ 600$, of which not more than $\$ 220$ shall be subject to divisicn among the Township and Horti hip Siciety sh of which no single V hip Society shall receive more than $\$ 100.58 \mathrm{~V}$., For For example, we note by the current year s O ario public accounts, that the London District Middlesex Agricultural total of $\$ 590$, which moes to the support of the Western Fair, held in London. The London Horticultural Society receives $\$ 140$, which is expended in the furtherance of its objects, by holding flower shows, etc. N. Dorchester, London and W. Nissouri Townships, in the constituency of E. Middilesex, get $\$ 140$ each. In some other ridings,
township societies receive as low as $\$ 45, \$ 60, \$ 70$ and $\$ 80$ grants.
The suggestion has been made that the Government grant be distributed to agricultural societie, in proportion to the amount they actually expend
for agricultural purposes, which would do away with the distinction between district and township societies. To determine this might require more thian a cursory totalling up and comparing of the agricultural schedules of the prize-lists an the The Provincial Department of Agriculture has now a superintendent of agricultural societies (Mr. H B. Cowan), and it occurs to us that some useful commission work might be done by that officer this year, by making a visitation of agricultural society shows, and a careful enquiry into the way in which funds are expended, prizes paid, etc. It is no easy matter to devise a plan that will give equally good results under different conditions, because, as in other enterprises, all depends on "the men behind the show." If they have the correct idea of the purpose and plan of conducting an exhibition of educational value to the community, the show will be correspondingly successiful and beneficial, and vice versa. In the meantime, we will be pleased to have this important subject discussed through the "Farmer's Advocate" by those whose experience and knowledge will be helpful in illuminating the question, and reaching conclusions upon which future enactment may be the most useful means for improvement in one of agricultural advancur wias ever devised for the agricultural

## Agricultural Progress Mustrated

If we except those farmers of Manitoba and the Northwest Territories, with whom the production of hard wheat is the specialty par excellence, and culiarly favorable, the agriculturists of Canada have placed their main reliance us husbandry, or " mixed farming," as it is some times called. In our judgment the results, as w $C$ have orserved them from the Maritime Provinces westward, have vindicated the wisdom of the system. Fundamentally, it is sound, and, therefore, safe. Upon this theory of successful Marming the "Farmer's Advocate" has boen conducted for nearly forty years, and we see good and stuffcient reasons why the policy should still be continued. Fortunately, data is available whereby these results can be tangibly measured. The Province of Ontario furnishes a fine example of the results of an intelligent system of live-stock husbandry, and in the official records of the Provincial Government Bureau of Industries, we have a carefully compiled and reliable record of results. A fair period for consideration would be the years信 before us. The increases in the capital of the Ontario farms, a products sola, have been ruly remarkable. There have been corresponding reductions in the amount of chattel mortgages of mortgages to loan companies, largely incurred of mortgages the in in erty, which is very strong evidence of the financial progress of the farming community eapecially when we consider the splendid improvements miade at the same time in farm dwellings and barns, and in the general conditions of living on the farm. By means of animals and their products exported from the Province, money has been pouring back
the years 1900-1-2 with the former three-year period of 1897-8-9, we find an increase in the value of animal and agricultural products of domestic products exported of no less than $\$ 35,497,000$ which are anything but dry reading:

CAPITAL OF ONTARIO FARMERS
Total value of land, buildings, implements and
ive stcck on Ontario farms :
1897

| 1897 |  | 905,000,000 |
| :---: | :---: | :---: |
| 1898 | - | 928,000,000 |
| 1899 |  | 948,000,000 |
| 1900 |  | 975,000,000 |
| 1901. | -................ 1 | 1,001,000,000 |
| 1902 |  | 1,045,000,000 |
| Total values at market prices of all feld crops |  |  |
| 1897 ............................................. $8107,000,000$ |  |  |
| 1898 ............................................. 110,000,000 |  |  |
| 1899 ........................................ 108,000,00 |  |  |
|  |  |  |
| 1901 ................................................. 128,000,000 |  |  |
| 1902 ............................................. 146,000,0 |  |  |
| Value of live stock sold during the year: |  |  |
| 1897 ............................................... $\$ 30,000,000$ |  |  |
| 1898 ................................................... 34,000,000 |  |  |
| 1899 .............................................. $88,000,000$ |  |  |
| 1900 ............................................. 42,000,000 |  |  |
| 1901 .............................................. 47,000,000 |  |  |
| 1902 |  | .. 58,000,000 |

Cheese produced in Ontario
1897
1902 $.811,719,000$

Swine sold or slaughtered in Otarto 1897
$810,080,000$
$20,154,000$
cluded in taious table. Cattle sold :
1897
1902
Cliatlel mortgages againe..................................


No figures published distinguishing farmers fiom thers
Mortgages to Loan Societie


1901 …. 189,618,577 118,291,151 1,585,817
No figures available distinguishing one class orn another
Values of animial and agricultural products ex-

| 1897 | ........855,538,592 |
| :---: | :---: |
| 1898 | ........ 75,884,858 |
| 1899 | ...... 68,140,758 |
| 1800 | ............................................ 81,066,450 |
| 1901 | ................. ............................ 78,680,966 |
| 1902 | 94,517,019 |

1900-1-2 exceeded 1897-8-9 by the fol!owing amount:
Facts like the foregoing deserve very careful study, not simply because they are calculated to give us good heart, as to the copdition and progress of agriculture, blut for the still more valuable tion in which the operations of the farm can, with the greatest degree of certainty, be made prontable.
proved stamp to keep up the standard of constitution and quality; and no class of stock will re pay the outlay for improvement so
hogs, the sale of the first litter in many instances hogs, the sale of the first erice of a sow, while paying the whole purchase price of a many times the cost of a first-class male may be many times that of an ordinary animal. If farmers have any loubts as to the profitableness of raising ligs in hese times, when at six to eight months' old th porkers are readily salable at around ive ar per hundred pounds live weight, or pigs that the by-products of the dairy, let them reflect on the by-products of the dairy, let them refect on high-priced grain, were often sold for little if anly higher price per pound dressed weight, and be persuaded that there is little ground for com persuad.
The combination of dairying with pork produc tion is, without doubt, the safest and most profit able line of farming that can be followed ly the average Canadian farmer, and those who are doing
well in this line will do well to think more than well in this line will do well the matter before changing to any

HORSES

## A Shire Champion.

oo the Editor "Farmer's Advocate":
Sir,--In your issue of 28th April, page 619, ind a short article by Mr. J. G. Truman, of Bush nell, Illinois, giving credit where it is due. Woul that others would follow the example.- I refer to gelding in the public auction ring at Union Stockyards, Chicago, viz., $\$ 660$, and purchased by the ards, Chicago, riz., $\$ 660$, and purchased be hat 4 good one Messrs Armour would not have pair that sum, or I might say, would not have bought him at all. I am pleased to say that the breed ing of this particular horse has been certified by rroper affidavits.
Areeders of other kinds af horses are over-zealous oreeders of other kinds of horses are always ready
to place their favorites first, thinking that theil geese are swans, but that is not the way in which
those parties would wish to have their pets those parties would wish to have their pets
treated. Then why do they not keep to the treated. Then why do they not keep to the
golden rule? However, it is quite easy to sec through their actions, for it is wer known that anyone who needs horses to do heavy work wil
always take a Shire in preference to the Clyde, if
they are obtainable, and as in the case in questhey are obtainable, and as in the case in ques-
tion, will pay a heavier price for such, as they are tion, will pay a heavier price for such, as they are
very difficult to procure. As to the value of the two breeds, we have
only to look at page 661 of the " Advocate,"' May
5th. There we find an account of Mr T J. 5th. There we find an account of Mr. T. J.
Berry, of Hensall, Ont., being offered $\$ 3,500$ for a Berry, of Hensall, Ont., being offered $\$ 3,500$ for a
Shire, and only $\$ 1,800$ for the Clyde -twice as inuch, within $\$ 100$, for the Shire. Now, let the
public throw all bias aside, and see for themselves public throw all bias aside, and see for chemselves
where the credit is due, and then give it to the breed which is most deserving.
We hear desines expressed on all sides, exceuting the Shire side, for amalgamating the stud-
books. This would be a great boon to the Clyde and horse... If the Shires as workers and good ing or introducing foreign blood, will sormeone please tell us where we shall find such? But not
so with the Clydes-they are drawing on the so with the Clydes -they are drawing on the weight. To prove this, I quote from a draft
horse paper of 23 rd April, 1903, the following :
/. shires "Shires going to Scotland is a new order of things. At the recent London Show, Mr. Jame graty, Bruxie, New Maud, Aberdeen, purchased the gray Shire stallion, Clarendon, registered in Shire
studbook. He is a dapple-gray in color, rising stax years old, stands over 17 hands high, with
six. clean legs and good feet. Mr. Scott expects that
he will breed big gray colts that will make good geldings, for which there is always a demand for city street traffic. The produce of this gray Shire
stallion may, and most probably will, learn to speak ( Gaelic to perfection, just as the produce of
I'rince of Wales
(G73) I'rince of Wales (673) have done, for who amongs their pets to him, if it be possible so to do." In conclusion, I will only ask fair treatment.
and instice for the puntle and docile, yet ponderous
and hermpan Shire.

## Diarrhcea in Foals.

While young animals of all species are subject Over 1,700 farmers will be growing heets this
season for the sugar factory at Rerlin, Ont.
tible as foals. We have not reference to that iorm of diarrhoea that in some cases becomes epidemic in certain localities or premises, and is doubtless due to a specific virus, and from which
calves principally suffer. We propose to discuse calves principally suffer. We propose to discuse
sporadic or accidental diarrhoea in foals. This is a serious and often fatal malady, and in some cases its appearance cannot readily be nccounted for. The newly-born foal is very susceptible t the action of irritants of any kind to the intes
tines, and diarrhoea may be caused in many ways tines, and diarrhoea may be caused in many ways
In some cases it evidently is caused by some un favorable condition of the dam's milk, and this i especially the case when the mare has been fod largely on food of a very laxative nature; in othe
cascs it occurs without apparent cause, and we cases it occurs without apparent cause, and we
must infer in such cases that there is some injurious ingredient, not well understood, in the milk under certain conditions, that causes the In other cases it is caused by the care-
less or ignorant administration of drastic rurgaless or ignorant administration of drastic, frurga
tives to the nursing mare. Aloes especially ap pears to have an affinity for the lacteal apparatus at least, it is largely excreted by these glands, as is demonstrated by the evident odon of aloes that administration of a dose. In such cases the trug administration of a dose. In such cases the drug and a foal partaking of milk thus contaminated is very liable to suffer from diarrhoea. This teaches ing mare, unless absolutely necessary, and in most cases where purgation is demanded in the mare, it can be produced by the administration of aw linseed oil, which has not the same injurious non cause of diarrheea in the young animal is ex posure to damp and cold weather, or confinemen In damp, foul and ill-ventilated premises. One o he most frequent causes probably is allowing the he is in heated condition especially when the mare has been at work and the colt confined in In such cases some of the milk should be extracted from the glands by hand, and the mare allowed to stand a few minutes and become somewhat coo not uncommon causewed to suck. Another, and gerous and uncalled for habit many people have o shortly after birth. This, even though the doso slight, often causes serious and sometimes fatal diarihoea. Under ordinary circumstances nature hould be allowed to have its course in these "the colostrum" has a sufficient laxative mare in rare cases, when the mare has lost considerable milk for a few days before foaling, and the colostrum has escaped, it may be necessary to give the foal a slight laxative, as about an ounce of castor ines until symptoms indicate their use and thi seldom seen, especially when the removal of the meconium has been attended to as advised in a former article. In colts that from any cause are eared by hand, we find that the partaking of cows milk in its purity usually causes serious
digestive trouble, which may be diarrhoeda, or the everse condition, constipation. In such cases, about equal parts of pure water and cows milk, gives good results at first, and when the foal be comes older and stronger and accustomed to the food, he can tahe the pure cow's milk.
SYMPTOMS.
SYMPTOMS.-The symptoms of diarrhoea, of course, are evident and unmistakable. The little
animal passes liquid or semi-liquid feces frequenty. At first there is usually little distress noticed, but in a very short time more or less holent straining will be noticed, indicating that ritated and inflamed. The intestines has beoome Good deal, refuses to farter of his usual amos i nourishment, or possibly refuses to suck at all: e loses strength quickly, will not or cannot stand Cor any length of time, pants, looks towards his iquid freces escape without apparent effort on the art of the colt; his mouth becomes cool, the cirmation very frequent and weak, and death soon Treatment.- $V$ hen we understand the causes of the discase, we should, of course, endeavor to diseases, "prevention is better thay cure." If the disease occurs in a very young animal, from a few hours to a few days old, we are forced to ar-
tnowledge that it is very serious. If it occurs in nowlenge that it is very serious. If it occurs in
a strong foal a feww weeks old, it is not nearly so
serious, but in all cases rocuires phomer -rgetic, treatment. The principal of treatment is to make the patient as comfortable as possible,
allay pain. check the excessive secretions of the allay pain, check the excessive secretions of the
mucous and digestive glands of the intestines, and
checks secretions. It should be given in th
form of laudanum, in from 2 to 4 drams, in little of the mother's milk, every three or fou hours until the diarrhoea ceases. Care must be diarrhしoa, else we will produce constipation the meantime, we must endeavor to get the final to suck, and if he refuse to do so, small quantities two out of a bottle, and if he be quite weak stion ulants, as about $\frac{1}{2}$ oz. of good whiskey or brandy,
should be mixed with the drench to kith should be mixed with the drench to keep up the
heart's action. If the platient be a couple of heart's action. If the patient be a couple of
weeks old, or older, the amount of laudamum must be correspondingly larger, and to it shiould be repared chalk, and if necessary the stimulant nd nourishment in proportion to age and size iven as drenches. In the majority of cases where or three doses of laudanum, with or without the addition of the astringents mentioned, according to age and size, will check the disease, without the use of stimulants or forced nourishments, but if or longer before treatment is resorted to, it usu ally requires very careful treatment and attention to effect a recovery. If the weather be cold, the patient must be protected from draft or chill, and if very warm weather, he must be placed in a cool
place.

## STOCK.

## Goitre in Lambs.

The disease known as " goitre in sheep," although not analogous to that of the same name in human of the thyroid glands (or bodies) situated in the neck immediately behind the throat.
appears to be confined to certain districts, and lambs. In some instances the losses caused have been serious, as many as eighty per cent. of the lambs dying. Goitre is neicher infectious nor contagious. It may, lambs are born with enlarged glands as many of the is usually from birth to five glands. is usually from birth to five to seven days, although a
small percentage of the affected lambs have lingered as long as two months. Symptoms.-Even at birth the thyroid glands of the
neck are enlarged, and the lambs appear weak constitutionally. Some die, giving a few gasps, immedia-
tely after they are born: ely after they are born; others in a day or two,
owing to their inability to suck their mother's milk. The most pronounced symptoms observed in the majority, four days or more after birth, are the enlarged
thyroid glands and difficulty in breathing. The norhyroid glands and difficulty in breathing. The nor-
mal size of these glands is about that of a horse bean and each weighs less than a quarter of an ounce. In this disease it is common to find them weighing four
or five ounces, and measuring three to four inches in or five ounces, and measuring three to four inches in
length. In the case of a lamb that survived until it was two months old, the glands weighed eight and eleven and a hal ounces respectively, while each measbrea over six inches in length. The difficulty in
breathing is often very marked, each breath being ac companied by a grunt, the mouth kept open, and ach ongue protruded, while the flanks heave. Exertion ongue and ings on an attack of breathlessness, the Post-mortem Examination. - The chief
Pid in colo nade were, the blood, though dark in color, coasulated
lirmly ormly; the absence of dropsical effusions in tissues certain amount of dropsy in cavities was present ; the alssence of internal parasites (fluke worms, etc.); the
liealthy appearance of all organs, with the exception of the thyroid glands and the lungs, the glands being
the much enlarged, and on incision, found to be distended
with a straw "ith a straw-colored watery effusion, while the lungs,
though healthy at birth, in a few days become dark hough healthy at birth, in a few days become dark and engorged with lhood.
(ause. -The mother's milk, blood and fluid from the affected organs of sick lambs were examined
microscopically with ner microscopically with negative results. Inquiry as to
the present supply of food, and the condition of the ewe's milk glands, did not furnish any satisfactory ex ewe's milk glands, did not furnish any satisfactory ex
plamation, while in no instance could the influence of the rams used be regarded as a determining factor. It 1s, however, of more than ordinary significance that
manny of the affected lambs were the offspring of 20 Hany of the aflected lambs were the ofispring of 20
months-old ewes that had undergone great hardships
during the recent drought, and in many instances the mothers themselves are progeny of ewes that were hal tarved and had travelled for the greater portion of Treatment-The affected lambs, with their mothers
t. . He separate from the flock, and kept in a sunall paddock close to the yards. The wool to be clipped off
shin over swellings in throat, and the part painted skin over swellings in throat, and the part painted
thoroughly by means of a toothbrush, with the fol-
lowing liniment: Tincture of iodine, spirits of camphing limiment: Tincture of iodine, spirits of camIt is necessary to apply the liniment every fourth
day, until recovery takes place. This usually occurs
in about ten days. In order to avoid the disease at next lambing, it is advisable to feed before they liberally, and allow tonic licks until a month constitutions. Ewes should not be put to the rams not young: whine a late or sumner lambing should affected with the disease during the past season been

## Letters from Prof. Kennedy

 W. J. Keaders will be pleased to learn that Prof. Hushandry in head of the Department of Animal vice-Dinect, in the College, and will. during of the state Experiment Station, Continent of Eurone for which beain and on the a year's leave of absence, contribute sersted

Prof. W. J. Kennedy.
 European Tour.
articles to the " Farmer's Advocate and Home Magazine," giving his impressions of leading exhibitions, agricultural education, and other topics or special interest to Canadians at the present cime. A progressive son of Canada, Prof. Kennedy s advancement under the flag of "Uncle sam, in his chosen avocation, has been followed ready announced in thide of "the line. As algloes abroad commissioned by the United States Department of Agriculture to investigate and re-


Wildwood Brino, by Wildbrino.


The Sow and Her Litter.
The mother pig is so important a factor in sucexercised in haising that the greatest care should be from three to selection. Select the sows when litters of prolific family. A tendency to large hitters is indicated by length and depth of side She should be vigonous and well grown; have 12 r 14 well-developed regular teats, commencing well forward; side, long and deep; fron't legs wide short and straight; head, small and somewhat dished; a good feeder, and of iquiet, contented disFeed her the very best growing and developing food available. Clover pasture, a little corn,
chopped oats and shorts, is a good ration Chopped oats for pigs should always have the hulls sifted out. Give plenty of exercise. Have too fat, and when eight months old breed her not is not wise to breed much younger. One service is sufficient; more than that is useress and injurious. Place her by herself for a couple of days. See sheep-dip, and rub a little she hase, spray with a flanks. While pregnant, keep the bowels regular. Give lots of exercise, and feed a variety of blood, bone and muscle forming foods, such as of oat chop,
bran, shorts and barley. In steamed out clover and a few roots. Discontinue the roots a short time before farrowing, as they have a tendency to make weak pigs, and slightly educe her ration. Keep the bowels regular.
with you, as you will need to be with her when the little fellows come, and she should trust you Handle her and be kind, pet her a little, and talk Kee before her time is by herself for about three weeks the floor of the breeding pen with a little cut wheat straw or short litter, and allow free access closely if weather is cold, and has the little fellows come, dry them and place in a basket of cut straw until all are come ; then place them on the mother ior a drink. lf any are weak, do this a couple them. If she has been properly fed, there will be no fear of the sow eating her young, there will be Beware of milk fever : After far her nothing to eat for five or six hours, then give, quarts of bran in it. Feed onty thin araple of for a couple of days. If the onty thin bran slop
little hungry it little hungry it won't hurt them, By degrees endd skim milk, shorts, chopped oats and barley meal until full ration is reached, then feed generously. contains double the mamount of solids. If scours milk, and the young, it is due to over-supply milk, and the mother's feed should be decreased, (ive her a tablespoonful of copperas dissolved in

good. The summer-fallow has done no harm, tes only increased the available plant-food, and the next crop will be in a position to benefit. And for thi
reason we do generally find a luxuriant, crop after fallow. The effect, however, is not lasting. A great deal of the most available plant-food has been mad soluble and used up; the best humus has been oxidize or slowly burnt by exposure to the air, and from les ceeding crops arources in a soil containing less humus. Hence the fallow acts as a sort of stimulant to plant ood, giving an immeda b a corresponding shortage But this is not all. All the plant-food which is midd available and soluble does not remain in the surfece soil for the use of the succeeding crop. There is, in the surface to the lower layers, because evaporation largely prévented by cultivation; there are no plant to draw the water to the surface and use it, and the rains of summer, prevented from aill by drainage, eithe the air, must leave the surface so subsoil. Thus, water carries with it much soluble fertility, and leaves the surface soil poorer. This loss may be very great, a great English experiment station at Rothamstead show. There a piece of fallow land was drained, an the drainage water accurately measured and analyzed o determinc the amount of nitrogen which was lost this way. his was to a depth of twenty inches. lost in this way 37.3 lbs . of nitrogen per acre per year an amount equal to that contained in three tons of horse manure. It is probable that in Ontario, wit our hotter summers, the loss is even greater. is this
The effect of fallowing on fertility, then, is A large amount of nitrogen is made soluble, and a good deal is lost through drainage, or into the subsoil, though enough may remain to show an increase used up in this way, and the land is left poorer in a
valuable constituent. For this reason, even the good eflect of mellowing the soil is not lasting, since humus has a very important function in keeping the soil open is nothing to prevent a clay soil from running together and baking as soon as it meets unfavorabie conditions of moisture. I believe experience bears this out, for, far as my lobservation goes, clay land that has becking in humus, the most liable to bake and becone har and the most liable to suffer from drouth
1 do not believe, in spite of some advantages, that the the present time, whatever may ontario agriculture at the present time, whatever may have been the case
on the rich new land of the earlier days. There are twot serious losses in summer-fallow-the loss of
tility, in the way "we have seen, and the loss of tility, in the way 'we have seen, and the loss of
year's crop, to be offset by one gain, the cleaning of the land. We may, however, clean the land as effective ly, and almost as cheaply, by a hoed crop, such as roots or corn, and at the same time produce a very
valuable crop, and prevent losses of fertility. This is, valuable crop, and prevent losses of fertility. This is,
by all odds, the best way to clean land, but if we by all odds, the hest way to clean some cover-crop,
must fallow, let us at least grow some
such as buckwheat, or, better, peas or clover, which
such as buckwheat, or, better, peas or clover, which
will prevent losses of fertility, and increase, rather than
decrease the humus of the soil.

## Potato Culture

I have read Mr. Stavert's aiticle on potato
culture, and I laugh when I think of the idea of culture, and I laugh when fifty' bushels per day. I dig by hand, with a potato fork, and one man can easily dig an acre a
day, but it takes two smart boys to pick it. Difday, but it takes two smart boys to pick it. Dif-
ferent from Mr. Stavert, I prefer to plow shallow ferent from Mr. Stavert, I prefer to plow sha the weeds are sprouted before spring plowing, and are no more bother during summer months. In the spring, manure heavily and plow. After a good harrowing, I mark both ways, in squares 32
in hes apart, planting in the last mark opposite in hes apart, planting in the last mark opposite
to the first, and covering with the plow. A
doubletree five and a doubletree fire and a half feet long, with a thirty-
one inch draft, should be used, so that the horse one inch drait, should be used, so that the horse
on the land walks between the drills, and does on the land walks between the drills, and does
not displace the seed rotatoes. I always plant the way the ground was marked first. After a week or ten days level drills down with an uptuined harrow, or a fairly heavy pole. In wet weather the seed should be planted immediately
after being cut, but in dry weather, dry seed aiter being cut, but in dry weather, dry seed
tuhera by letting them stand a day or two before lanting. Small seed planted whole do well, when planted once in three or four years.
When plants can be traced in the drill, scuffle When plants can be traced in the drill, scuffle crosswise, and in a few days scuffle opposite way.
Tre potatoes should now be thoroughly hned, and then hilled up with a moulder. I prefer planting ahout June 1st, as then I have less trouble with hugs, and rotatoes do just as well as planting I have used Paris green for years, and never method I have grown over four By following this the acre, and grow from five to fifteen acres a

Wean at seven or eight weeks' old. For two
days previous limit the sow's food. Remove her out of hearing, and return her at night. After the pigs have sucked, remove her, and return her again the following noon. Do it again two days later for the last time. If in the winter time, feed the young pigs often on skim milk, bran, Shorts, and
chopped oats, with perhaps a little linseed mea as a laxative. In summer turn them into a clover pasture, and feed a little less of the grain. Up to four months of age keep then growing as fast as
possible, and then gradually changfe to a fattening diet of corn, peas, barley or rye. About three weeks before selling, pen in lots of six or eight and feed all the corn they will clean up. Don eed after 225 pounds weight is reached, and en mon.hs. In fact, force them all the time-first in growth, then in weight-and you are on the righ track in hog-raising
Lincoln Co., Ont.

## Care of Calves.

Spring calves, whe allowed to be nursed by heir dams or raised by feeding from the pail, will do better the first summer if kept in roomy box talls or sheds, and fed good hay or green grass, soiling crops, cut and carried to thep The' hot sun summer doys, and the plague of flies, is very hard on the youngsters, if they are exposed without the
shade of trees or a shed. If they are to be kept shade of trees or a shed. If they are to be kept nights become warm and danger from frosts and cold rains is past, and in any case they shoul have a shed for protection from cold winds an i
rain, or from the hot sun and flies. rein, or from the hot sun and flies
A good plan is to keep them in
A good plan is to keep them in during the day on pasture at night. Care should be observed at anl times to feed them their milk sweet and warm. If a cream separator is not used, and the milk fed before it becomes cold, it should be warmed. Cold
the stove, or by the addition of hot water. Col milk and unclean drinking vessels are liable cause indigestion and scours, and are often re sponsible for a stunted condition of the calf, which con ititution. In periods of drouth, when pasture fail, the calves should be given some supplemen tary food, either in the form of green crops car ried to them, or a mixture of meal and
cake, to keep them in thriving condition.

## FARM.

## Building the Farmhouse.

Rural architecture is improving. Every ye there is an effort to improve the appearance of
the houses and barns being built. Convenience and comfort inside, while important, are not sufficient, the outside must be attractive, and the location must not only suit the needs of the occ pants,
the landscape. The disadvantages and defects of location many of the farmhouses already ereated ar
cramped surroundings, lack of architectural style cramped surroun
and squattiness.
and squattiness.
The first consideration in building a house is $t$, select a site that will permit of a good-sized grass
plot between the house and the barn; a wide front plot between the house and the barn; a wide front
lawn, to be dotted with trees, shrubbery and lowers-not the restricted lawn of the city resi dence-and a
posed sides. There is no necessity for placing the house as close to the barn as the insurance com panies will allow, nor so near the road that pass-
erg-by can look in the windows. One of the chief advantages of living in the country is that there
is facility for breadth and scope about the buildings.
The exact shape and style of the house may b
decided by the huilder decided by man be and plans oan be had on every hand, so there
little apology for the plain L-shaped house commonly built a few yeers ago. Such houses, although convenient inside, are not compact enoug to be economically heated by a furnare
very plain. Many excellent plans apl,
ime to tine in the pages of the " Farmer
wate." dith modern appliances, by way of heating un lumbing, it is necessary to have a roomy c seldom omitted, and on flat-lying districts the in troduction of concrete makes it possible to buil one perfectly waterproof. In order to have th
vest basement, the floor should not be more thal best basement, the floor should not be more tha
three or four feet below the surface, the wal hree or four feet below the surface, the wall

## The Opinion <br> of a

## Canadian Senator

I am glad to know that the Farm er's Advocate and Home Magazine is doing well and increasing in circula tion. From what I know of it, I can honestly say that there is no periodical that serves a better place in the farm er's home than the Farmer's Advocate and it is a matter of amazement to me that a paper containing lots of news and information valuable to any farmer that will read it should not be patronized by every farmer in Canada. I know nothing that would contribute more to the general prosperity and advancement in the art of agriculture than a weekly perusal of the columns of the Advocate. It is, in my humble opinion, a credit to the Editors and the company that issues it. I am, Yours faithfully,

JAMES McMULLEN
Senator.
May 13, 1904. Mount Forest, Ont.
sown the next spring. Weed seeds are sprouted and
killed, and plants that propagate by means of running Hoots, as do the Canada thistle and couch grass, are drawn to the surface and kiled by drying, so that
the land is kept clean. So much, no one will Further, the advocates of the system claim that the land, by "resting," increases in fertility, and is thus grealy improved; that stiff clays are opened up and
made friable, and the texture of all soils is improved These claims, while having some elements of truth gating. Beyond this, even the advocates of summer-
fallowing must admit that it is a costly and wasteful fallowing must admit that it is a costly and wasteful L.et us examine, first, the effect on plant-food in the soil. As we saw, in our last article, cultivation
can have no eflect in adding to the plant-food in the adready. Where cultivation is carried on in hot
weather, the effect is most marked in the case of the element, nitrogen, which is in the soil, chiefly in
form of humus. This, which is insoluble in water, slowly available to plants, is changed into the form Senator.
Mount Forest, Ont
$\qquad$

The practice of summer-fallowing has uncoubto weeds, and it was this fact that led to its genera adoption throughout this province. Many of he best and it we puite common to judge of a farmer's thoroughness ta ne and or land herince the system is extensively practiced, but in many part It is being discredited, to give an intelligent explanation of the effects to the usefulness of the practice
In a well-conducted bare fallow, the land is kep in a state of constant cultivation from the early far of the summer till it is time to sow wheat, or later, if, a
general in the modern house, ten feet on the proper height. In the atth shourdindmill and the nodern furnace and water-heater, a system of hot and cold water pipes can easily be installed. latter suggestion is one that cansaving labor in the ouse, and a convenience for ablutionary purpose.

## Problems of the Soil.-VII.: Summer fallowing.

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Potato Cultivation and Spraying. In planting potatoes get the rows started straight,
and keep them so, as much better work can be done
both in cultivating both in cultivating and spraying. The cultivantor
should be started as soon as the should a started as soon as the planting is finished,
using a riding sprigg-toth double cultivator, as not
only can the work be done twice as only can the work be done twice as fast, but it can
be much better done in all ways, especially if there be much better done in all ways, especially if there
is any twitch grass. Cultivate at least once a week,
 possible, and if this work is properly done, you will
find that there will not be a weed or any couch grass between the rows by the time the potatoes are breaking ground, but all clean, loose dirt, the weds being
along the top of the row on a strip not over six eight inches wide.
Now, when the potatose are breaking ground, no
matter if some or them are two or three inches high
take the horse hoe or sheel take the horse hoe or shovel plow and bury them right
up, not too deep, but deep enough to cover any ligt

 of loose earth, but all small weeds and a a good portion
of the couch grass will he dill going until tha potatoes are from Kifle the cultivator
fifteen to eighteen inches high. When from six to eight inches high, speede
or hoe them up, throwing the dirt so that it will meet
ong along the top of the rows II tho wor wo wha meen
properly done, there will not need to be any work wion hand hoe, unless there are thistles in the field, which will have to be cut out by that method from between
the hills, but little expensive hand hoeing is necessary.
 spray ?" Usually when the vines are from six to
eight inches high, but al wass as soon as 1 can find
fingle tiny suy single tiny slug hatched out, and I believe, one year
with another, that this is soon enough.
The firs three sprayings should not be over a week or ten days
apart at the most, as this is the period of the vines' most rapid growth, and insecticides should be used a
each of these first three applications, especially if bugs are plenty. These should be followed by one or two
more applications at periods of two weeks apart, he Bordeaux mixture, but in there are
nily a few, an insecticide should Do not try to save money by not using Bordeaux mey, and at all sprayings, as it will be mistaken econ-
ond back on the same rows.
In this ay only can you be sure that you have reached both des and all parts of the hills. This is especially
mporttant at the first three sprayings.
The tew minates extra it will take per acre, will be many uimes
repaid in the yiedd of tubers, and in this way we ar Sure that we shall not lose our crop by rot.
No farmer who has an acre or more of potatoes can aformer to get along without the use of o four-roued
horse sprayer. I want to give a word of warning horse sprayer. I want to give a word of warning
against geting a tow-pressure or chap machine.
poor sprayer is one of the meancst indlements poor sprayer is one of the mennest iinplements a man
ever owned. Spraying, ot be efective, must be done
thoroughly, and it canniot be done thoroughly with a
 undersland the principle of spraying for blight, I will
try to illustrate. If you could take a hill of potatoes
and dip it into Bordeaux mixture four or five times during its growing period, that hill would never be
struck by blight, or its tubers by rot, as you would have coan cannot hope to do as good work as this with
Now, we cor sprayer, but we must come as near to ot as as we can;
nd we cannot begin to do this with a towressure machere; but if $\begin{aligned} & \text { ®e have a high-pressure machine, of } \\ & \text { say sixty pounds, and }\end{aligned}$
 ings, and to a large extent the under side of the
 ariner and do better work than in a low-pressure
The hand-pump machines will do good work
achine have a goon man the punp, but is hard
you have tor rk to keep the pressure en tho where it ought o bi,and
power machines are much more satisfactory. not buy any sprayer without first looking at the agi-
lator, as this is one or the most important parts, and 1e. sure that it extends across the barrel, or nearly
so, whether the amreel is uright or on its side, and Nat it plays close to the bottoll. In no other man-
"ar can the mixure be kept perfectly stirred, and even
work insured with Bordenux mixture Bordeaux mixture is the proper mingling of two
mineral substances, viz., copper sulphate, or blue vitriol, and wil give my. method of preparing the mixture for
, witoses, the user remembering that for plants of Unuler foliage the strength must be reduced. Get two
tirong barrels, holding fifty gallons each, oil barrels 1,wing the best, as they won't dry out as quickly when
misposed to sun and wind.
Dissolve in one of them lifty pounds conperd sulphate: this will give one pound
copper sulphate to each gallon of water; pour into the
 tity pounds of good unslacked lime, having at hand
a stout paddoe for stirrig. Watch carerully when this
anguns to boil, and stin constantly, adding more water


set in this state a few hours before filling the barrel up
with water, as cooking dissolves the Weing less coarse material to strain out. Bettere there
using, fill the barrel gives one pound of lime to each gallon of water; this
also will keep ith If your sprayer tank holds fifty gallons, pour five gallons of the copper sulphate solution into the tank,
and add clear water enough to fill ahout then add Bug Death or Paris Green-about fifteen pounds of the former, or about four ounces of the
latter-mixed in water enough to run easily in a pail.
Now put in Now put in five gallons of the lime solution, stir
thoroughly, and fill the barrel up with water. Mixed in this way, the copper solution will not curdle the
lime and clog the strainer over the feed pipe. Yo
now have now have a mixture, that is not only the most deadly
to bugs, but the best fungicide known.
Brunswick, Maine, U. S. A.


Collynie Conqueror (78609)


## From the Hired Man

country are requiring the importation necessities of the the farmer in Canada is coming into more general antact with experienced farm help, and others from amiss to some of your readers to leara something the feelings of one who, some $1 E$ years ago, became hired man on a Canadian farm. ing, and had lived in a large city nearly with farm time. This may be the case with nearly all my mife direct from Britain this spring, will hire out on farms,
On löoking back, what comes first to mind is the dreadful homesickness. None can first to mind is the but those who undergo it. If you farmers find your old Country help very quiet and reserved, and perhaps cross, just put yourselves in his place, mentally. Your
help has severed himself from all his old associations Things trifling in their way, but very dear to him, are occupying his mind. All his surroundings are new and strange, and he feels quite odd. A little considera-
tion of his feelings now and again, and a little sympathy tion of his feelings now and again, and a little sympathy
shown him, will make him an interested workman. remember one man I worked for used to come once in are ye to me in the field, and after a "Weel, Aleck, Canada, and the ways of the neighborhood, and chat Canada. I could have worked for that man night and dey after these little chats, they were so encouraglng. Anwake me between 4 th in those wet or dry. After a few chores, we had breakfast,
which was more like a scamper over the table. Then. when there was no work to do on the clearing, he would send me away alone to the back end of the lot to
clear up the slash and fire stumps, if fine, or work a'bout the barn if wet. It was awful to be away at
that "c back end"" alone, for one's thoughts are not of the cheeriest during homesickness. The farm was in a
lonely spot at the best, but had he only chatted with me once in a while, I would not have felt so lonesome
It was sacrilege, too, to stop working while daylight Writing of breakfast, brings to my mind one farm, where at $6 \mathrm{a} . \mathrm{m}$. . I had porridge, bread and butter and
tea for breakfast. By $10 \mathrm{a} . \mathrm{m}$. I was almost to hungry to crawl; while by dinner-time I was past enjoying food, and what I did eat made me drowsy and ing, I must say, I found an exception to the rule. A young man fresh from a sea voyage and out in the
open air all day needs substantial meals if hard work is expected of him, At home, I had been accustomed to a bath two or matter was of no consideration at all I got over the difficulty after a while by rising very early on Sunday
mornings, and taking two wooden pails of water to the mornings, and taking two wooden pails of water to the
barn, I had my i,ath before anyone was up. This proceeding somewhat astonished the household. On
another farm, I was encouraged to bathe regularly, and
all and throurh a severe winter I I had my weekly bath.
all
My experince is, however, that the bath is common institution it ought to be on the farm.
he saw me reading with showed some irritation when dinner-time, when resting, 1 liked to have a book with me. I never got more than a few minutes (at it,
though, for that farmer seemed to think I was wasting time, and usually found some chores for me to do. Then, in the summer time, we were never done with done by 6.30 or 7 p. ing or harvest.
A man is, of course, hired to work, and during worlk
hours he has no right to do anything but what he is required to do. Outside of work hours, though, he is man shows himself able to appreciate some little attentake an his comfort, then it is a mutual advantage to take an interest in him, and make him feel that he is
something more than a farm tool.
ALICK.

## Application of Farmyard Manure.

Should manure be applied fresh or rotted? The upon conditions. It is true, as a rule, that the fress is the loss of plant-food. It is difflcult the keep manures and so to control fermentation that there shall be no loss. Recognizing this fact many advocate taluing manures to the field abou as fast as they are made. It may be furthe
urged in favor of this practice, first, that fresh manure carries more humus to the soil thian that which has been rotted, as in the process of rot ting a portion of the organic matter is destroyed second, most of the manure made upon the farm
is produced during the winter months. On the majority of the farms the amount of work at that season is comparatively little. In the spring, on the other hand, work is much more pressing. It
is a great practical advantage, therefore, and may is a great practical advantage, therefore, and may getting out the manure, to do the work about as fast as the manure is made during the winter. The question will doubtless be asked, however, if ma serious loss through lying ippon the surface? In considering this question, it is important to re member that the proportion of soluble constituents in fresh manure is less than in rotted. It is furdoes not contain any considerable amount of ammonia, while rotted manure may. If manure is spread during the winter months, before the
nitrogen of the urine or dung is converted into ammonia by the process of decomponition, there it nothing of value in the manure which can escape into air; and ammonia will not form to any coning in winter in the manure which lies es prevail ing in winter in the manure which lies upon the
surface. The only source of loss, then, would ap cear to be through the washing out and escape over the surface of a portion of the soluble con-
stituents of the fresh manure. stituents of the fresh manure. This loss may in some situations be serious. If, however, the feld
is fairly flat, or if on a moderate slope it has been cross-plowed with a rough furrow late in the be great. If the winter is open the surface will not be great. If the winter is open and the rains and surface will, of course; be leached, but if the water which flows through the manure soaks finto the soil, this does not involve any loss. It doubtland or on steep slopes in late fall or winter when it must be allowed to remain upcn the surfice, but it should be remembered that this loss is rotted. It is doubtless to be expected that when eny fresh manure is spread during the fall or winter there must be some loss of manurial value, but in many cases it appears to be true that the saving in the cost of the application is sumpient
to more than offiset such loss as is lifely to Whether the manure should be applied tresh or first rotted must be determined in part by the natire of the soil and by the crop.
manures are to be preferred. They increase the porosity of such soils, and their decay in the soil improves ife mechanical condition. For the lighter soils the finely-rotted or cold manures should be preferred. Market-garden crops must usually be
manured with fine, well-rotted quick-acting mamures, while for crops like slower acting manures may be selected. There appears to be much need of further light on the general question of the expediency of spreading
fresh manure on fields in winter. Many good farmers follow this practice, but there are also many who believe it to be a mistake. The comparative results of the two systems will, undoubtediy, vary to a considerable extent in accordance
with the variations in seasons. It is belfeved that during many winters the loss of manurfal value would be exceedingly small, but we doubtless have occasional winters, such as a winter when there are heavy rains and thaws, in which the loss in the wash over the surface would be
large. Only a careful series of experiments extending over a number of years can be expected to solve this question.
Perth Co., ont.
FARMikR.

## In the Sugar-beet Field.

GERMINATION.-Care must be used to plant This must be determined by the moist
soil, its temperature, and the weather. and moist enough, the beets will begin to make their appearance. The real struggle on the par of the grower for a crop begins at this juncture arise at this tender stage of the plant; a frost or'a hail storm can do them considerable damage and they may have to be replanted. In replant ng it is not good pra The germinati the beet-grower. A leating rain may crust th surface to such an extent that the beets canno penetrate it. In such cases valuable results may crust of the surface. At every stage of the crop the beets must be kept clean and cultivation must begin at the earliest possible moment. Some-
times they are cultivated soon after planting times they are cultivated soon after planting
These first cultivations are accomplished with These first cultivations are accomplished with
special beet cultivators, which work se: era special beet ciltivators, which work are ad justable to the width of the rows, and usually have, for the first cultivation, small, loose, shar
knives running parallel with the surface, and $d$ knives running parallel with the surface,
signed to cut off the grass and weeds just below the surface.
BUN surface.
BUNG AND THINNING.-About the time that the beets show the fourth leaf the bunchin
and thinning process begins. This is necessory to remove the excess of plants. Single plants should be left in the row from six to ten inches apart depending on the distance between the rows and
the kind of soil. The time of thinning is impor the kind of soil. The time of thinning is impor used there will be a considerable excess of plants due to the nearness of the seeds to one another A still further excess results from the fact that germs, all of which are liable to germinate.
It is quite evident that if all the germs in single seed grow we are liable to have a bunch several plants standing very close together, ofte intertwining and forming a network of rootlets
The longer these plants are allowed to grow in this way the more complex, difficult and harmfu! becomes the process of removing the superfluou plants. If this thinning is put off too long,
disturbs the position of the plants which are disturbs the position of the plants which are t
remain, breaks their tender rootlets, and mate rially and permanently injures them. Every effor should be made to accomplish this thinning a quickly as possible. A little money spent at this stage proves a very valuable investment in th
fter stages of the plant. A Deet-grower should prepare himself beforehand, and be ready to ac complish this work quickly, and not allow it to drag along." With the best of intentions and pered by rains and other difffculties, but he should not faill to exert his best efforts to get his crop thinned as soon as
The process is known in the common parlanc of the grower as " blocking and thinning." Block ing is accomplished by a person walking along the cient width, cutting out part of the beets so us to leave bunches the proper distance apart for th person creeping along on his hands and knees and with a deft movement of the hands and fingers
removing all the plants in the bunch except th ne his eye selects as the strongest plant. Thi aborious effort; it is in a sense a kind of culti plant, and should be compressed around it again the hand before going on. Grass or weed CULTIVATION.-The methods of cultivatio ore various. The object sought is the elimination ure, and the loosening of the soil around the ture, and Beets must be kept clean. By this term in sugar-beet growing is meant more than in corn growing. It is desired that these beets shall be
rich in sugar. The sun and air are the great re rich in sugar. The sun and air are the great re-
ugents which accomplish this result in the beets Weeds and grass must be eliminated from the crop in order that this may be accomplished. Bects are a vigorous crop, and they should have the full sustaining power of the so
with waste plants and weeds.
The cultivation of a beet crop should begin $t$ moment the soil is broken up for plantingl to beet of the land is broken in the fall, it should be har
owed immediately, possibly rolled. It should he owed immediately, possibly rolled. It should be lowed to rest for a while, giving the weed seerl
me to germinate and come up ; then it should be ime to germinate and come up; then it should be
illtivated and harrowed again. In the spring, stirring, it should be cultivated and harwed several times until ready for planting.
fter manting, it should be gone over with a
grass begin to appear. These harrowings, etc. kill weeds, conserve the moisture, and prevent
soil from baking. A cultivator should be brought into requisition at the earliest possible moment, and the services of the "weeder "or harrow conthued alternately with the cultivator, even after
the plants are up. Cultivation should be conthe plants are up. Cultivation should in sight until they become so large that it is impossible to continue.
After the first cultivation the horizontal blades of the cultivator are replaced with elliptical
blades, which penetrate the soil three to fout inches and loosen it, making a dust mulch whicl conserves the moisture in the soil and promotes the growth of the plant. The cultivator is usu
ally drawn by a single horse or mule, and i

manipulated by a single laborer,
ivates two or four rows at a time
vates two or four rows at a time. varticularly laborious. One man and one hors an cultivate many acres of beets in the course of the season. The number of cultivations given case. If it is a dry season, cultivation should be continumes in order to maintain a dust mulch and weedl, hand hoes should be used. The numbe "if times the heets should be hoed also varies. The If the land has become fout and in good condition. better the rcsults. If the land is fairly clean, little hoeing will be necessary. I S. Department of Agriculture.

## A Negro Potato King.

What can be done by ceaseless industry, it domitable perseverance, and-may we add, no dom been mh last--good business ability, has thed areer of Junius G. Groves, Edwardsville, Kansas a negro, of whom Booker Washington writes the May issue of the Outlook. Mr. Groves was born in Kentucky in 1859, the child of slave par ents. A few years later, however, under the proclamation of Abraham Lincoln, he became free During his boyhood he received very little school ing, yet the little he got inspired him with thirst for knowledge, which he gratified at every possible opportunity. In 1879 he went to Kan sas, and had when he reached there just ninety cents in his pocket, and hired with a farmer fo orty cents a day, loarding himself. Mr. Grove, career," however, began on the auspicious day pon which his employer gave him a plot of nime acres of land to work on shares, supplying him with a team, seed and tools, on condition that he hould plant, cultivate and har was unde keep as his reward one-third of what to 75 cents though his capital only amounted to 5 cent. he determined housekeeping in a little shack on their smal p housekeeping in a ormane in whit potatoes, three in swee otatoes, and three in watermelons; and at the end of the year fornd that they had cleared for hemselves $\$ 125$. From this small beginning they went on, first renting, then buying, the first farm of their own consisting of 66 acres. From this lime their progress was constant and rapid. Iittle y little they added to their land, according to
heir means. To-day they own 500 acres of the heir means. To-day they own 500 acres of th from $\$ 125$ to $\$ 250$ an acre, and live with their family of eleven children in a fine building, built a cost of $\$ 5,000$, which contains fourteen
ooms, bath-rooms, a private gas plant and wate ooms, bath-rooms, a private gas plant and water
ystem, and a local telephone. Upon the farm yster, is also a well-painted barn that cost $\$ 1,500$, here is also a well-painted barn the in which 6,000 bushels of seed potatoes are kept during the win-
(er. Mr. Groves has also had constructed a rivate railway track, which leads from his shippay. Besides, he owns and operates a general store.
Several fine orchards are scattered over Mr
ar roves farms, but potato-growing is his specialty
ast year his potato crop amounted to 72,150 bushels of white potatoes, averaging 245 bushels o the acre; a quantity estimated to be 12,150 Jushels more than any other individual potato-
grower in the world produced. Besides those aised on his own farm, he also buys and ships potatoes on a large scale, exporting them to every part of the U. S., to Mexico, and to Canada. He as educated himself so that he can now analyze
nd classify the soils on his farm, and so graide himself as to the application of the fortilizer especially suited to the various soils. He uses only the latest improved cultivators, potatoplanters, potato weeders and diggers, and although
lifty laborers are employed by him during the busy eason, he uses machines wherever during the bus. His fame rests on his success with potatoes,
his good name in the Valley on things more enhis good name in the Valley on things more en-
during. He is described as a man of tact, keen insight, scrupulous honesty, good financial sense nd courteous manners. He is a good churchman and is very particular as to the education of his
children, three of whom are receiving training in he Kansas Agricultural College. In short, as is neighbor, Senator Taylor, says of him, he is calley"-a name even more to be coveted, surely,

## Plan of Farmhouse.

You will find enclosed an illustrated plan of house, which I think would answer the purposes
It is a house of moderate dimensions, and can he built complete with cement cellar and a furnace You will about $\$ 1,000$ or $\$ 1,100$. Yhich some seem to think so necessary Now, in which some seem to think so necessary. Now, in
a small family this room is not really needed, as $t$ makes more work for those in charge, and, genally, if there is a dining-room the parlor is never used except in case of visitors. So I think oom, with a spacious kitchen and pantry, and a woodshed at the rear for use as a summer kitchen
in Summer. will also notice there is ample room upstairs for hired help and visitors.
"The Yellow Perill. There is a " yellow peril", that threatens agri-
culture. It is not a possible or distant peril, bit one that is now present with us. It is not con stantly before us during a greater part of th presence in many localities is painfully evident.
We. inave been in the habit of desi panating this par Presence in man the habit of designating this par-
We have bien in the har evil by the names of wild mustard and
tioular perennial sow thistle. In a vernacular savoring
more of the oriental, and one that might associate more of the oriental, and one that might associate
the " yellow peril. of agriculture with its social
contemporary, this evil miuht be designated as "Wee gain," or "We lose." Whatever it be called, there is by far too much liberty given to
the propagation of these yellow-fowered weeds. the propagation of nise botanically and in gen-
Althouph quite dissimila
eral habit, they are quite alike in one particular eral habit, they are quite alike in one particular,
namely, they may both be destroyed by sprayin, with Bordeaux mixture. This advantage is possible because of the roughness and
the leaves of each of these plants.
Those whose farms are infested with either of thase weeds need not be toth of the immense injury they cause. What concerns them most is to secure a quick method of eradicating them, and so
far nothing pronises better for this purpose than spraying with a solution of couper sulphate, in
she proportion of about ten pounds of coper sul
the the proportion of about ten pounds of copper sul-
phate to forly gallons of water, and at the rate of forty to fifty gallons per acre. The mixture is
easily made and applied ; it does not interfere with the growth of a grain crop, and its cost is a mere bagatelle. . The solution also destroys many
other weeds with which it comes in other weeds with which it comes in contact, such
as bind weed, annual sow thistle etc as bindweed, annual sow thistle, etc. To those
whose farms are infested with these weeds the need of spraying is urgent, and should be prac-
ticed thoroughly just before the mustard blooms, when the plants are all above ground, but before they have developed their
hardened their surface tissues.

## DAIRY.

## Canadian Butter in England.

Mr. J. B. Jackson, Canadian Commercial Agent
for Leeds and Hull, Eng., writing on the subject for Leeds and Hull, Eng., writing on the subject
of butter, under date of May 16 th , says : WThe creameries of Canada should coprespond
with this office, as a large quantity of their butter could be placed in this district, and it would
facilitate this trade if they would write direct and lacilitate this trade if they would write direct and
give quantities per month they are prepared to take orders from h
of brands, if any
"Farmers' Butter.-A large lirm in Newoastle,
doing a large business in farmers' butter from Canadu, are very much dissatisfied with last year's
result, owing to its irresular 4 保 sesult, They say: . These butters are unded excessive best
sof them, for a cheap counter butter, the remainder
ond or confectionery purposes. And they meet in
competition on this market with the siberian competition on this market with the Siberian, a
much more uniform butter in both quality and package.'
Siberian Butter--'The Siberian butter is principally the latter, and this package suits this
market much better than the little 28 - or $56-1 \mathrm{~b}$. tubs which the Canadian farmers use. Some of the farmers put no less than from one to three quite unrecessary, and is every often gets damp and Fresh-made butter in the best butter district of Western Ontario, sent it straight to the Toronto
cold stores, brought it over in cold chambers, and when it arrived it was stale and off flavor.' "Just such occurrences as the above destroy our
Canadian butter trade.
The farmers
must exer ife more care in the making, packing and salting of their butter, and must use different packages,
vither 56 -ib. boxes or $112-1 \mathrm{~b}$. casks, not tubs. . The Canadian creamery butter is not uni-
tormly as good as the Danish, it is softer, and has not the same grain. The Danish creamery hutter is more like A1 farm-made hutter, with a
veaut iful grain and excellent natural color. "'Process" Butter-A large quantity of
process' butter is sold here, and is a fairly good article, generally, packed in $56-1 \mathrm{bb}$. boxes. The
process . consists, I am told, in tading the difrent qualities of store butter and rechurning
hem with hot milk, and in this wav getting a niform product both as to color and flavor.
would suggest to the exporter of Canadian store
 nauseam, and only fit for confectionery purroces, that he ' process ' it, and in this way ohtain a
fairly good cheap butter of uniform color and
Calo gor storage in an anter that if pat directly into cold
Canda and shiped here in cold storcale. Fspecially is this the oase at present. as
Siberia is our principal competitor in the cheap
lines of butter, and if the present war is pron
longed this supply will te cut of and Conad
have a chance to supply most of the shortare have a chance to supply most of the shortage."
[NOTE. Mr . Jackson, acting ment of Trade and Commerce, is hunting up some useful information for our dairymen and others, forenein should be made aware before giving the Butter of " process butter" "ure, importation or salo But it is evident forward from Canado deserida meen going son, then there should be some more Mr. Jack tem of inspecting exports of butter, orthe syo tation of Canadian butter will be ruincd.-Ed.]

## Overrun in Buttermaking.

Huring the last year at the Iowa station we have
We conducting experiments on the question of overrum
We have Co have also been carrying on an educational scorin
contest, making complete analysil contest, making complete analysis of each sample of
butter sent in each month. Thacts on analyses have reveealed to us some startling more fhan another. In some of these analyses we find a difference of fifteen per cent., or in other words, we find that one creamery makes iffteen pounds more but-
ter from one hundred pounds of butter-fat than an-
We have makers exhibiting in this contest, who
have a tat and their butter-fat has inveariably shown three or four per cent. increase over the average.
While we have not completed our conte
Cations are thate not completed our contest, the indiwill run about twelve per cent., but the water butter alone does not entirely govern the overrun. We find the amount of caseln runs from 7 to 3.27 , and the We also find that the butter high in casein will keep about as well as the butter running low in casein,
or in other words, the amount of or ins other words, the amount of caseln butter con-
tains is not always an indication of its keeping qualities. It depends more on the condition of the casein or on the condition of the cream, or, possibly,
kind of wash water used In washing the butter.
For instance For instance, we had one sample of butter con-
taining about thirteen per cent. of water, 3.08 at casein, and 2.95 of salt. This butter, alter being exposed to a warm temperature for elght or ten days,
and then shipped to New York ecored with points of what it scored at Ames, scoring ninety-four at Ames, and ninety-two in New York, by Mr. Healy.
No criticisms were made in either case on the

In this case the butter would have an overrun from the chemical analysis of almost 23.5 per. cent. Now, water, he would have had an overrun of 26.5 per cent. that is, based on the chemical analysis.
three per cent. loss in the there would be as much as cess, which would, if course, have to churning pro ${ }^{26.5}$ much cent. We have no methoas to determine how $\mathrm{w}_{\mathrm{w}}$ much toss is sustained in the process of manufacturing. manship. Usually, the maker of good butter does good work
 is getting a large overun. I belleve the American The chemical analysis of Danish butter shows about fifteen per cent. of water, while the American Thus, we find that the Dave is making about thres than our American buttermakers, providing he hes the same amount of casein and salte presesint in his butter. -IProf. McKay, Ames, Iowa.

## To Dilate Constricted Teat

$\qquad$ led "considerably. Says he: "Very likely there's plan has never failed me yet, and if there is anything I dislike in dairying, it is those hard anilkers. But
I go for them, and in two weeks I have a cure get some slippery elm, you know it is worse than a match; make it have a swell-head, so that it will it swells in the constricted part of the duct, it dilates a tug at the silk thread brings it out. Dip the plug in carbolic acid, and then in water that has been boiled, before inserting." The use of a slippery elm
plug is preferable to any other kind of wood for reason that it swells so gradually the cow is not made less expansive plug of fir, or pine, inserted.-[Jersey

Butter: From the Stable to the Table. There are two methods of creaming milk, the method. or gravity method and the cream-soparator consider it first. We do not advocate the use of shallow pans, only in cases where one or two cows are kept, or in the spring and fall, when the ice supply has given sible after milking, using a fine pans as soon as pooor three thicknesses of a fine wire strainer, with two bottom with a tin hoop, so as to be easily removed, for the cloth must be well washed and scalded each tima after using. Keep the milk in a cool, well-aired room free from odors. The milk should stand twenty-four hours in summer, and from thirty-six to forty-ight in before the milk thickens. . Where ice ekimmed of before the milk thickens. . . Where ice can be pro-
cured, or where there is a cold epring the deep pans are a great improvement over the shallow ones. You may use a box or barrel; the only essentiels are to keep it sweet and clean, and use plenty of ice. Strain
the millk into cans as soon as drawn, and place Immediately in the water. To obtain the best resulte. the milk should be quickly cooled to forty-five degroes
or below. When the milk has cooled, cower the cans. Avold disturbing the milk while cooled, cover the cream is. The ideal method of getting the cream from mill however, is by the cream separator. A separator, it properly handled, should mean more butter, better
butter, more young stock, and pasteurizing.
Pasteurizing is not necessary if good-lavored butior
can be made from the rawa cream, but to the presence of undesirable germ life havors dui getting turnips, weeds, etc., are present, pateurizin will ensure getting good-flavored butter with itwereasea cient is collected for aep the cream sweet until sumthis way: Place the can holding tho ereean in a veswel of hot water. Do not have the water rise, to over $180^{\circ} \mathrm{F}$. or the cream will have a sooked davor.
Heat the cream to $16 c^{\circ}$, stirring very ireoukily move from the fire, and let etand twenty minutes. The cream is now a clean seed-bed, into which, if we whe it to ripen quickly, we must put a startor. A gopd starter.may be obtained by flling a sterilized Gem jur
with milik from a healthy, fresh milch cow. Set the jar of milk in a warm, clean place to sour naturally. When sour it should have a clean smell, and a sharp; pleasant, acid taste. The amount of starter to uto
depends on the length of time the cream tio depends on the length of time the cream is to be held
the weather, and the kind of cream. The amount may vary from five to fifteen per cent. In winter, when the cream is to be churned next day, ten to fiftemp If the cream has been too nuch. cooled to 80 degrees put in the starter, when it hat to between 60 and 70 degrees, then etir coceallonally to insure even ripening. When it has a alightly told
taste, cool further to 55 degrees, or lower, and hold at taste, cool further to 55 degrees, or lower, and hold at
that temperature till churning time. It is well to have two cream cans, as there is always a siciminimg which should not be added to the can before churning cream for at least twelve hours before churning time. rhe cream can should be well washed, aired and seceldizedech time used. If the cream is not to be paotour,
ized, to the first skimming may be added a pint of the sour cream on hand. This acts as a starter, and come added, and keep. in a room where the temperature is from 55 to 65 degrees. Separator cream thould bo
cooled before being added to the can. When the cooled before being added to the can. Whep the of syrup, and when poured should hiave a smooth, Holding the cream too long gives a bittor flavor:

> GHURNING AND WORKING.

Before starting to churn take the temporaturo. II it be too cold, place the can in a pan of hot wator
and atir? Try not to have the cream so warm that it ahd shire try not to have the cream so warm that it As to teinperature, the poorer the cream, the higher the temperature ; the less cream in the churn, the lower the temperature in winter will vary from 56 degreen to 62 degrees, and in summer from 54 degrees to 80 degrees. Avold having too much akim milk in the the two chilef conditions that cause long chuming. The churn may be either round or square, but should have o dashers inside.
Scald the churn and rinse well with cold water Strain the cream into the churn through a perforated dipper. In winter, it is necossary to use a littlo. gallons of cream is sufficlent. Measure the color, and revolve the churn 70 or 80 revolutions to the minute drawing the plug occasionally to let the gae escapo. When the butter has broken, add two or three quart,
of water, the temperature of which wlll depend on tho of water, the temperature of which will depend on the
condition of the butter. If it has been quick in com ing, have the water. 52 to 54 degrees to winter, and colder in summer. If you have been a long time in
getting butter, do not add the weter unthi, you bave
the butter the slze of
trew of the buttermill
Arew on the buttermill. To wash the butter, strain into the churn about as
much water as you had cream. Put on the lid, and revolve rapidy a dozen times. One washing is suffcient, unless the water comes of very milky, which it
should not do. Let the butter drain ten or fifteen should minutes.
will prefer salting in the churn. The quantity to use will vary with the taste of the consumers, but, as a rule, one ounce to the pound when salting in the churn,
and. three quarters of an ounce when salting on the and. three-guarters of an ounce when salting on the
worker, is suffcient. Atter the amount of butter has
been ascertained and the salt weighed, sift the salt. been ascertained and
through the dipper, put the lid on, and rotate a fow
times ; let stand for half an hour, then gather into times ; lot slowly revolving the churn. Allow the butter to remain in the churn from two to four hours; take out, and give sufficient working to remove the excessive
moisture. The buttermaker who is still using the moisture. The buttermaker who is still using the butter-worker. When the moisture is nearly all expelled, and the butter has an even color and close texture, it has had sufficient working.
In getting ready for the local market, there is no pock pressing down on the butter, which has been rolled out to about three inches in thickness on the worker.
Scrape of the bottom evenly, and wrap the print in the Scrape of the bottom evenly, and wrap the print in the
best parchment paper, which has been wet in clear, best parchment paper, which has been wet in clear, not only the butter, but the basket and yoursels are as neat and clean as can be. A buyer first looks at
the one who has the butter for sale, then at the butter. the one who has the butter for sale, then at the butter. done by exercising the greatept attention and care in every
table.

## Dairy Produce Dull.

We extract the following remarks from the circular of Mesers. Samuel Page \& Son, London, (Eng.), dated May 4th :-" The purchases' of butter by speculative buyera made at the beginning of last winter, and dur ing the following months, have lurned out most disa trously. In a great many cases 12s. to 16 s . per cwt has been lost on large parcels of butter, and as fre quently the same firm have also bought cheese which belances are enormous. And there is no doubt that the trade generally is suffering from the disturbance create. The foregoing remarks respecting butter apply equally to cheese, the similarity in the factors affect ing the markets being quite remarkable. Both are
characterized by a heavy fall in prices, following upo ahlumdant suppliee-it is calculated that the stock of Canadian cheese in London is about ten times as large as at this time last year, and the total arrivals of New Zealand up to date, amount to 48,670 cases,
as against 30,074 casee for the corresponding period
of last season, an increase of 18,596 cases. In both as against 30,074 cases for the corresponding period
of last season, an increase of 18,596 cases. In both
cases business is suffering from a collapse produced by cases business is suffering from a collapse produced by
a market unduly infated by speculative dealers, wh naturally wished to bolster up prices in order to ge
out of their purchases with as little loss as possible But their views have proved entirely wrong, and finest old Canadian is now pressed for sale at 43s. to 44s..
while new season's make is freely offered at 37s. to While new season's make is freely offered at 37 s . to
3se., and New Zealand is slow of selle at 38 s . to 42 s . There is also \& quantity of United States cheese now
on offer at 208. to 86s. per cwt., while at this time last year such description was conspicuous by it

## Blue and Stringy Milk.

Dr. James Law, Professor of Veterinary Science
at Cornell University, in a bulletin of the Depart at Cornell University, in a bulletin of the Depart of the blue appearance of milk. Watery milk is blue, but the presence of a certain germ causes distinct blue shade, even in rich milk and cream. The germ may get into the millk, after it has into the opening of the milk ducts and get into it while being milked. Frequent milking is recom mended as a means of flushing out the germs, and the injection into the teats of a solution of two rams of hyposulphit Speaking of the causes of stringiness in milk Professor Law says that this is caused by fungi which he believes derelop in the system of the cow. In the affected cows the temperature is
raised one or two degrees above the normal. Like most other fungi, this does not grow out int filaments in the milk, while it is within the body of the cow, but in five or six hours after milking he surface layers are found to be one dense net-
work of filaments. If a needle is dipped in this and lifted, the liquid is drawn out into a lons thread. Care should be taken in the live-stock water supply, which is likely to oause stringiness. rolessor Law recommends two drams of bisulpears.

## Factorymen Getting Ready

Chief Instructor Barr, of the Western Ontario Dairymen's Association, has visited many of the improvements general all over the district. The spring clean-up in many factories has also been accompanied by new floors, new tanks, fresh paint, alaibastine, etc. Everywhere there are more ex tensive preparations for a good seasons mak
than has ever been noticed before. Milk supplies are not as large as at this time last year, owing to the scancity of feed, the long, hard winter, and the low price of cheese. With the new grass,
however, it is expected more milk will be sent forward.

## Venus and the Cow.

In view of the novel expedient adopted by the paintings of Canadia World's Fair, in lieu of living specimens, the following quotations irom a plece of fiction, entited a Moomme lover of country life, and particularly devoted to horses and cows, seem appropriate. The volume
romance of Tennessee, where Mr. Moore lives and romance of Tennessee, where Mr. Moore lives and
studies nature. Here, in part, is his idea of coma He says : the grase-for, if one really wishes to learn something one must lie down with nature. And so, when I really deily, I go out to that cool and shady spot and talik it over with the cows.

##  <br> A Barked Tree Bridge Grafted

-The incisions before the bridge is placed.
bridge.
3-A
But I believe I'd rather talk to the cows than to Mis " Besides, though I love a horse, and all others of our domestic animals, it is my deliberate opinion that the Jersey cow is the most perfect animal thit
lives. From the big, tender and thoughtful eyes, which give so much character to her clean-cut dished which bony face, to the dainty switch that graces her taper-
ing tail, there is not another animal that walks thbarth with more grace and beauty, and combining it all vith so much usefuiness
emptation about a cow on horses, but there is no ness, contentment, honest living her paths lead to sweetChe sight of the clean, white dairy. pungent with the wor of ripening milk and cooling cream in the darkling
waters, is itself a sermon on holy living: while the tinkling of the tiny streams that purl around the gold stamped tray of butter is the music that accompanies "The oldest of my cows is Content. I always
ddress my remarks to Content chiefly address my remarks to Content chiefly, because she is " ' ' Content,' seid I. I. 'this is a more beautiful picture than one sees on canvas. isn't it? And let beautiful than all the dead statues in cows are more accoss '. It makes mee amile, Content, to see people going
a see works of art, when they might across the ocean to see works of art, when they might
walk out into a meadow and see such a picture as this. Gut into a meadow and see such a picture as
Going across the sea to rave over broken-arme and broken-hearted Venuses, dug out of Pompeii, copied after Greek Aphrodites, dug out of heaven know Where, when all they wound have to do is to tap on stand up, straighten your beautiful and silver-golden sheen, to see the most perfect statue in the world.
" ' ' Stand up, Content ! There, now, let's compare you with Venus. (they say that is a strong point with the Venus)-why, 'twould take a yard-stick to measurd
yours. And ankles (that's another boast of the yours. And ankles (that's another boast of the
Venues)-well, I can span yours with my thumb and middle finger. Now, I am told these are the two strong points about the Venuses, Content ; il so, they are not in it with you. surplus flesh-why, no Spartan maid is your equal surplus enesh-why, no Spartan maid is your equal.
Your eyes. They are great, ptill, calm • lakes of poetry. Not a line about you that is not a line of beauty. And from the tapering turn of your little
curving horns to the big golden quarters of an udder
tucled well curving horns to the big golden quarters of an udder ing again to declare that no Venus-hi-ho-but where
was I at ? A.. Ah, yes; on the subject of art. And that reminds me, Content, of the great amount of sham and
fraud that is practiced under that namie. It is with art as it is with incomprehensible poetry-people rave over it who have no conception of what they are rav-
ing about. They go on about the Milos and Apollos. ing about. They go on about the Milos and Apollog,
and the other naked things they happen to see, when their artistic caliber is about lerge enough to comprehend the flaming posters in the village blacksmith shop, announcing the coming of a company of soubrettes in a melodrama of faded hosiery. And so a Jersey cow is more beautiful to me than a Venus, a graceful brood mare than Diana, and I would not exchange my saddle horse for all the Apullos that
ever were mounted on a pedestal. . $\cdot$ It is life that I love, Co And suppose these statues have peifect not death. straight noses and benutiful faces. And suppose they do look as is they were about to speak or about to move; whenever I look up into their eyes and see
the big sunken boles in the marble there, I am shocked and disappointed. Throughout all the ages, no one has ever been able to put a single spark in the only place the light was needed-" the window of the soul.
". Ah, Content, tura again your big, calm syes on GARDEN AND ORCHARD.

Squire Attwood's Bridge-grafting System To the Editor "Farmer's Advocate Sir,-Perhaps there never was a spring showing so the present. Now, every one of those trees can be
saved by bridge grafting. I have been practicing bridge-grafting for the last 40 years, and $I$ have a way of my own of doing it which guarantees success every
time. First get some twigs of last year's erowth such as grafters cut off, only longer, if possible, and as it is now too late in the season to cut any, you
will have to get them from grafters. I bridge graft of budding. It is in this way I prune and graft at each end, that guarantees success.
(See annexed diagram). About one inch above, and below the girdled part, make a cross, cut with knife
through the bark to the wood; then on the lower side through the bark to the wood; then on the lower side
another cut through the bark to the wood, like a T ; on the upper side do the same, making it look like an
inverted T. Now, with the knife, raise edges of the bark of both now, with the knife, raise edges of the way, this work cannot be done before the sap moves and the bark will lift easily. Cut your bridge about three
inches longer than your cross cuts are inches longer than your cross cuts are apart. If the
bridge is a little curving, so much the better. Bevel off the curved side at both ends, say one inch back from the end; and now comes the most important part.
Bevel the bark part of the bridgo inch, by a cut on each side, making the end somewhat threesided. Now insert the lower end in the
lower T; hold the thumb of the left hand ower To hold the thumb of the left hand under so you
will not push down too far; continue to hold the thumb there, bend back the bridge and insert it into the thumb $T$. and push up firm, but still leave a curve in the bridge. Wax each end firmly over. The curve in the
bridge will prevent the ends drawing bridge will prevent the ends drawing out when the
wind moves the tree. Now mound up with moist earth as high as the bridges reach. In case the girdling is high up, requiring a long bridge, I case the gird-
to lap the bridge with to lap the bridge with grafting cloth strips. They are made by dipping cotton strips two inches wide into earth is thrown up, it is well to remove it as soon as the bridges start, say in July, as the mice may get in again in the summer, and the frost might burst them I have frequently read recipes for making grarting the following proportions: $2 \frac{1}{2}$ pounds of rosin, the darker and cheaper, the better wax it will make; pound of beeswax, and 5 ounces of paint-oil, boiled
Melt all together, then throw in a tub of water, and work with hands by pulling like tafy. When tallow is used, the sun will melt it down, and in time the substance perish, and the wax drops off. But when oil is
used it hardens like paint, and remains on for In case the wax is too sticky, add more rosin: if too hard, add oil. If working on a cold day, use warm water if on a warm day, cold water; and in all cases a little lard on the hands. When not working, throw the wa
into the water. into the water.
Middlesex Co., Ont.

## Defining Grades of Apples.

To the Editor " Farmer's Advocate Appr,-The committee appointed by the American as a definition of a No. 2 apple the following . as a defnition of a No. 2 apple the following in diameter than Number One quarter inch less in diameter than Number One apples, and not over twenty per cent. of the apples affected by deface-
ment of surface, by scab, dry ret defects, shall be hand-picked rot, worms or other not bruised or skin broken, shall be trees, and and normal color, and shapely formed."
This definition of a No. 2 apple is of the very greatest interest to the Canadian apple-grower. We have in section 6 of the Fruit Marks Act, a definition of No. 1 fruit that is in every respect satisfactory, and there is a constant demand for a definition of a No. 2; but the difficulty is that mark out appears to be hardy defnite enough will be allowed in a 2 apple, hecause it is course, understood that a No. 2 apple is a deective apple.
The above definition of the Apple-growers' Con gress has also been adopted by the International Apple-shippers' Association. Nevertheless, I can not help thinking that this definition is not workable. The reference to the size of the apple might pass, though it is little better than using the phrase, "Too small to grade No. 1." But the nost serious objection is the admission of twenty per cent. of defective apples, with little or no individual fruits. maining 80 per cent rot, worm holes, or other fefects then, 80 per cent. would be No 1 apples in the matter of size. Now, size is of the excep consequence of the qualities mentioned, so that practically a No. 2 barrel would consist of two grades, viz., fruit with worm hole and scab the amount of 20 per cent., and 80 per cent. per-
fect fruit, slightly smaller than No. 1. This violates the first principle of true grad ing, in permitting different qualities to go in the same package. I would, therefore, consider thit,
so far from making matters better, this definition so far from making matters better, this definition
makes matters worse. In looking for tion of a No. 2 barrel, the individual apples must be taken into account, and if certain blemishes are permitted, they must be permitted in each specimen. It will not do to distinguish between diffar as to make a reasonable allowance-say five to ten per cent.-for the inevitable errors that come in rapid work by the class of help that must be APPLE SHIPPER.

## Shading Small Fruits.

Shading crops to promote early ripaning or to im-
prove quality is a practice considerably advocated of prove quality is a practice considerably advocated of
late. Some have reported excellent results in shading Iate. Some have reported excellent results in shading
strawberries, and the crop is one which might seem well adapted to the practice. Since the plants can be shaded quite easily, the returns are large from small
areas, and the prices are much influenced by earliness areas, and the prices are much influenced by earliness and quality.
However.
However, two years' testing by the New York Agri-
cultural Experiment Station, in two localities, speaks strongly against the practice. Except in two varieties, which are known as good forcing berries, there was
very little increase in yield, the time of ripening was very little increase in yield, the time of ripening was not appreciably influenced, and the quality, except as
to size, wes unfavorably affected. The practice may possibly be of advantage where large berries are demanded and paid for by the market, but the expense
more than counterbalances any advantage of the shadmore than counterbalances any advantage of the shad-
ing in general field culture. Bulletin 246 of the Staing in general feld culture.
tion gives details of the tests.

## Not a New Scale.

Some of the newspapers recently published under "scare headings" the alloged discovery
a new scale insect pest at St. Catharines, Ont We at once made careful inquiry into the matter and have received the following note from Prof. Wm. Lochead, of the Riological Department of the
Ontario Agricultural College: Ontario Agricultural College:
"Mr. Thos. Beattie, inspector San Jose scale, has just sent me a specimen of the scale that was
referred to in the public press as having been dis Covered by him on lilac bushes in St. Catharines. The scale is the oyster-shell bark louse which is
oo common in most parts of the Province where spraying has not been carefully attended to. Mr Beattie says that he does not know how this got
into the public press, and was surprised when his into the public press, and was surprised when his
attention was called to the fact that reference was made to the matter in several daily papers."

## Trees Should be Cultivated.

aid the growth of trees what cultivation will do to one to be found herewith. In photo-engraving No is seen a hedge cultivated regularly since planting while the one shown in No. 2 has been in grass, with the exception of three feet immediately round the hedge. Mr. Harry Drown, Horticulturist, Brandon Experimental
Farm, in sending in the photos

APIARY.

## Getting Bees Of Combs.

The article in May Morley Pettit. Math issue, page 678, I con-
May sider poor teaching, although recommended
for trial by one who has wide experience in en for trial by one who has wide experience in bee
literature. Any careful beekeeper with experience interature. Any careful beekeeper with experien
does not need to try cleaning bees off combis h ing bees off combis hy
running a Cogshall
brush down into the brush down into the
super to know what a super to know what a
nasty stinging mese nasty stinging mess
he would have, espe-
cially with queen and cially with queen and
brood abore. brood abore.
Only dead bees would tumble off an
disappear in the low er part of the hive
without a strenuous without a strenuous and justifiable protes
against such an in against such an lon
trusion as a long trusion as a long
thin whisk broom in
to their very hive to their very hive
The queen should al ways be confined to the brood-chamber by sha' en outside in the right rl ce do not
crawl about, but right into the hive, and outside than better hive, for if there the any about those two and carrv them riem and carry them right
is much more malked than shown in the photographs the color of No. 1 being a rich, vivid green, while that The great advantage of cultivation is that it forms ing plants of all kinds take up enormous quantities of water, but trees in particular are very exhaustive in that respect. If they are worth planting at all, and no sane person will dispute that fact, they are but very greared mistake to planting. It is a common vell without some cultivation any more than will a crop of garden vegetables. In the woods, in their but in small plantations the mulch must their leaves, them.

The Wagner Apple for Export.
Mr. John Brown, Inspector for the Department
Agriculture at Glasgow, reports to the Fruit Division, Ottawa, that the Wagner apple is much esteemed by some in the trade there, and if the
fruit is of good size it is readily fruit is of good size it is readily bought by cer-
taila of the best buyers. Others again will not taim of the best buyers. Others again will not
look at this variety if they can get Spies or Bald-


Uncultivated Native White Spruce
Brandon Experimental Farm. Compare with illustration No. 1. which was planted at
wins, and class it next to Bem Davis. Its color up instantly, and looked an and appearance are its redeeming points, as it remained standing all nightoyed, and 1 think she mentioned varieties. Some dealers say it is a took the hen and chickens out and fed the mentioned varieties. Some dealers say it is a gether ; seeing the chickens eat, encouraged her to
mistake to ship Wagners after the month of De-
cember, as they take on scald very easily.

The U. S. has again lost men in the Philippines On May 8th, Lieut. Winfield Harper and thirty-nine
men of the 17 th Infantry were caught in an ambush by several hundred Moros. Two American offcers and fifteen men were killed, and five men were wounded.
following moth ods
there is practically
no stinging, and the hive is closed against roblically much more quickly. In removing the cloth cover one edge and smoking under to loosening from down. Lift the combs out one at a time, giving each a couple of sharp jerks in front of the hive, to shake the bees off on the alighting board. Set to an assigtant to brush off ilhe remaining hand
Fill the super with empties and olos. Fill the super with empties, and olose the hive. it will be seen that this closes the hive against
robbers in the least possible time robbers in the least possible time. Theibrushing,
which is a cruel operation at best, is reduced to a minimum, and the bees which the smoke did not
drive down out drive down out of the super are on the alighting
board quietly running in at board quietly running in at the entrance.

## POULTRY.

## A Foster Mother.

 One of my pullets was very ill with roup dur-ing the last days of March. I brought her into the kitchen and applied the usual remedies, which efused to eat. After
letting her starve
some days, I fed her. some days, I fed her
by hand: while working with her, 1 noticed my incu-
bator chickens were bator chickens were
ail $n$ and on ex-
aminition found one or two with gapes, and severaf were
v e r y drooping. I very drooping. I
dosed them likewise

- two or three drop two or three drops of a poisonous mix-
ture. I put the worst cases in a
small pail on $t h e$ top of o ir kitchen range. I thought,
" What folly to have a hen in a box at stove, and chickens on the top,"
so I put the
chic:ens under hen ; she stood try. The second night she sat on them nicely, and the following morning, to the amazement of us all, she clucked to them, and began breaking up the bread and feeding them. I let her run nights I chens, At nights I gave her one chlicken on the floor, when

TRIX.

## EVENTS OF THEWORLD

## A recent despatch from Bitlis, Aslatic Turkey, states on May 14th serious fighting occurred between

 that on May 14th serious ighting occurred betweenthe Turks and Armenians in the Sassoun district, 700 Turke and 900 Armenians being killed

William Marconi, who arrived at New York on May 14th, on the steamer Campania, declares that he main-
tained constant communication with shore stations during the voyage, and that the publication of a dail
newspaper at sea is a thing now practically assured.

In order to allay further apprehension as to the attitude of China towards the war, the Chinese Govern-
ment has again adressed a note to the foreign powers ment has again adressed a note to the foreign powers Imperial edict will also be lessued agaip enjoining all

Details of the earthquake in the Balkans, which took Dlace on Easter Monday, have just become current. It is now known that 2,000 houses were destroyed and
10,000 people left homeless in the Jumbala Valley. All 10,000 people left homeless in the Jumbala Valley. All
the crops in the valley were ruthed by strams the crope in the valley were ruthed by streams
of sulphurous mud and water which issued from
orevices in the ground.

Upon Lord Dundonald's recommendation, t Dominion Government, has decided to fortify the Port
of Vancouver. A strong battery of powerful guns will of Vancouver. A strong battery of powerful guns will aiso bo erectod on Partridge Island, at the entrance
of the harbor of St. John, N. B. The worls will be
accomplished during the eummer.

The census of India for 1901 shows that the growth of Christianity has been, comparatively, far more rapid than the growth of the general population. In 1872,
the Chrigtians in India numbered $1,506,098$, of whon $1,246,288$ were natives. In 1901, the Christians numbered $2,928,241$, of whom $2,664,318$ were natives.

An outbreak of cannibalism has taken place on the Admiralty Islands, where a Chinaman and four blacks
were recently killed, roasted and eaten. On news the outrage, the German Warship, Condor, immediately went to the spote arrested the ringleaders and bombarded the village. The ringleaders were taken to the
nearest German station, where they will await trial for
their crime

The Thibetans are still showing firm resistance to as to indicate force now in Thibet. Since those now offering opposition are much better armed than thowe with whom the been deemed necessary to take some steps in the matbeen deemed necessary to take some steps in the mat-
ter, and, consequently, hall a battalion of British and
half a battalion of native infantry in India have been hair a battalion of native infantry in India have been

The Daily Telegraph's Tokio correspondent cables the following, under date of May $15 t h:$. A A
treat
eligious meeting, promoted by influential men was hel in the park to-day to determine the question of found ing in Japan a church, pro-Christian in character, but
on independent lines. Leading men consider the time on independent lines. Leading men consider the time
has arived to adopt the elements approved by the
majority of clvilized nations. An edict establishing a majority of civilized nations. An edict establishing a
national church is not improbable."

Treasonable dealings, which brd fair to exceed in
importance those with which Captain Dreyfus was charged, and in which several men are implicated, have been unearthed in Paris. It is stated that eighty-five
plans of the fortifications of Toulon, along with other plans of the fortifications of Toulon, along with other
important millitary secrets, were sold to the Germans. An Itallan, Cesare Gollo, and a naturalized French contractor, Jeremie Mesqui, are the chief among the accused.
The Glasgow Herald declares that the combined eargo of steel and plg-1ron on the way from Nova Scotia
to the Clyde is full of interest to Great Britain and America. The question of the open door to Canada for British finished products, if Canadian bounty-fed steel is to be received, is bound to become a live one
in the early future. The paper deplores the fact that Scottish ironmasters have not diverted their capital Scottish ironmasters have not diverted their capital
long ago to the iron filds of Newfoundland and East-
ern Canada linstead of to the unsatisfactory fields of ern Can
Spain.

> Japan has suffered her first great loss in the war.
On May 15th, during a dense fog, the cruisers Kasuga and Yoshino collided. The Yoshino sank almost immediately, only 90 being saved out of the 300 men
who were on board. Upon the same morning the Hatsuse, one of the finest vessels in the Japanese navy, while cruising off Port Arthur, struck a mine
She signalled for help, then, almost immediately struck another mine, and sank in half an hour, 440 out of her
total crew of 740 being drowned. The combined losses of the Yoshino and Hatsuse thus equal the loss on the
Russian cruiser Petrovaloukk. Nevigation in the victn-
\$yy of Port Arthur every day becomes more dinger
as, so it $1_{s}$ now stated, the Russtans are using Chinese
junks to strew mines in the path of the Japenese vesJunks to strew minies in the path of the Japanese ves-
aels patrolling the coast. Upon land, two recent
sidirmishes have been reported. At Kinchow, thirty aels patrolling the coast. Upon land, two thirty
sildrmishes have beeen reported. At Kinchow, the
Russians were left dead on the field, and at Sanchusan, Rrossians were left dead on the fiel, In to fifty. In the latter engagement the Japanese
wounded. NOTES AND NEWS

Navigation between Niagara Falls and Toronto was not open until May 16 th.
Another oll well has been struck at Leamington, Ont., at a depth of $1,043 \mathrm{ft}$. A 6 -inch stream spout through the drills to a height of firty feet.
Miss Wallace, a Peterborough, Ont., girl, has just had accepted by the authorities or Paris Salon, a represes pula

At Philadelphia, recently, Mr. C. D. Warren, of Lake Superior Company, which will reopen the works Lake Superior
at the Sault.
The first Rhodes scholarship to be held by an Ontario man has been awarded to Mr. Ernest Riddell Patterson, B. A., of Tor
to Oxford in the autumn
Sixteen thousand emigrants have sailed from British ports already this year, this number being 1,000 more than during all of 1903 . All available steamer
room has been booked for several months.

Nova Scotia has now a total of twenty-three mode under cultivation. This work is under the capable supervision of Prof. F. W. Sears, Principal of the
School of Horticulture. It
It is stated that fully thirty per cent. of the bee
colonies in Ontario have been killed by the sever winter. In Quebec the loss was still greater, while the Eastern States fully eighty per cent. of the hive coming season, will be a somewhat scarce commodity
The steamers, Barcelona, from Hamburg, and Numi-
dian, from Glasgow, arrlved at Halifax on May 17th, bringing with them 1,322 pasiengers and emigrants Those on the Numidian, a number of whom were boun
for points in the U. S., were all Scotch. the Barcelona were all Austrians, bound for Winnipeg and the Territories.
Preliminary steps have been taken in New York for
building a ship to be propelled by the new ". multiple building a ship to be propelled by the new "multipl toctric propellor," which, it is asserted by its inven
tor, M. Richard Painton, will enable vessels to cross the Atlantic in three days. The vessel will be 600 feet in length, and will cost $\$ 2,000,000$. Mr. Painter asserts that the use of electricity as a propelling agen
will reduce the cost of coal $\$ 9,000$ per trip.
At the last annual meeting of the Canadian For of the construction of the Transcontinental and othe railways, to call the attention of the Dominion and
Provincial Governments to the likeliheod of destruction rovincial Governments to the likelihood of destructive work, and recommending the advisability of enforcing
strict
regulations with a view to preventing such strict regulations with a view to preventing such
fires. What rigid supervision can do was exemplified ires. What rigid supervision can do was exemplified
in the building of the railway to Lake Temiscaming through pine forest, to which practically no damage was fone, and it is felt that a similar policy in regard to
further rallway construction will be attended with
imilar results. similar results.
The supply of milk throughout the Province of On-
tario is showing a serious falling off, and the cheese factories are suffering in consequence, is the gist of Putnam, Superintendent of Farmers' Institutes, Grom the cheese factory inspectors. The decrease in the milk
supply of the factories is attributed supply of the factories is attributed to several causes
first, the low price of cheese : second insufficient for the cows, on account of the late spring ; and third, the poor condition of the cows, owting to the long win-
ter. Mr. Putnam added that the prospects were good for. Mr. Putnam added that the prospects were good
for a large supply later in the season. The Inspec made to the factories this year
area of forest reserves in Ontario amounts to present $6,000,000$ acres, whereas less than ten years ago the
total area was only 80,00 and Increase reflects great credit upon the Provincial Legislature, of which both sides have been given continuous
approval to every step which has been taken for the advancement of provinclal forestry. The land chosen
has been invariably that unsuitable for agricultural has been invariably that unsuitable for agricultural
purposes. Mr. Southworth, Director of Forestry and
Colonization, recently stated his opinion that present policy is continued, Ontario, before long, will not have to take second place to any country in the
world, in the matter of forest wealth. The prevalence of cold waves during the present season, is, as usual, recalling the phenomenal cold of
other years. Thie summer of 1816 is one of the coldest on record. In New Hampshire, during that year, snow
fell at some time during every month in the year ex-
cept August. On May 15 th, also in N. H., newly
plowed land froze to a depth of six inches, plowed land froze to a depth of six inches, and in
Massachusetts on June 18th, enough snow fell to make good sleighing. The unusual cold was marked
throughout all Canada and the United States throughout all Canada and the United States. It was
attributed to sun-spots, which in that year became attributed to sun-spots, which in that year became so large that they could be seen with the naked eye
People became afraid that, the climate had changed. As it had not done so, however, hope may still go on past the phenomenal winter and spring of 1904

A special despatch to the Globe from Vancouver, says: A number of Ontario financiers, having secured
the contract for supplying millions of ties, to be used in connection with the Panama Canal works, are making arrangements to erect the largest lumber mill on the Pacific coast, in Vancouver. The cost, when com-
pleted, will be over a million dollars. Neither Canapleted, will be over a million dollars. Neither Cana
dian nor local trade will be touched, the whole output being devoted to supplying the demands of the foreign market. It is expected the immense order for timber given for the Panama Canal will place the new firm
solidly on their feet, so that they will soon become one of the largest concerns in the lumber world. The pro moters have been working quietly, and have already secured hundreds of thousands of acres of timber lim-
its. No names are

## St. Louis Live-stock Exhibit

I Editor Farmer's Advocate : with some interest, endorsing the action of the Live feet of the man who had insulted them, and pick up But what has th to do with those who, with the understanding the would be a Canadian exhibit of live stock, had prepared for such, and now ane left wondering? Is the upsetting of
the Commissioner's dignity when betore the St . Board of more importance than the interests of the
live-stock breeders live-stock breeders of Canada? It seems so. What we breeders want to know is this: The Live-stoc Commissioner shifts the onus upon the President of
the Shorthorn Breeders' Associalion, and Mri. Robert Miller, by stating the communication he had ceived through them, made him call the meeting in from the blue sky to himself and the Minister a bol the meeting at Toronto. What the breeders of cattle horses, sheep and swine want to know is the natur of the bolt. Mr. Linton, as President, who officially
sent the lightning stroke and sent the lightning stroke, must make his communica-
tion public. Also, Mr. R. Miller, who incidentely clinched the electricity, as vice, must be incidentaly We breeders want to know, and will know, upon what grounds our officials, who never show, or expect how, can sulk and damn those who do or want a building; exhibitors are making a display; and yet because one or two individuals are disgruntled, Cana da's greatest exhibit, her live stock, must be absent Coburn's reception had no bearing remarks that M their decision had already been made.

## German Implement Trade

The German market, which only four years ago can agricultural implements in the twelve months has steadily diminished its imports from the United States. Last year only shows a trade worth litt or three years ago, one of the very best continental markets for American farm implements. Industry Chat country has of late been passing through bad
times; but the agriculturista have times; but the agriculturists have been the least to than agricultural. The bulk of forelgn machinery in from the agricultural colleges in Germany is imported om Canaaa and the nted about a quarter of manufacture farm machinery made steady progress, although it cannot has since then cessfully in every branch of the industry against foreign imports. Nine firms in the United States, two in
Canada. in Ger, and four in Britain have depots and agents business. But, with the sole excention amount of chines, the import of foreign machinery seems to be gradually but certainly diminishing.-[Farm Imple-
ment News.

Forthcoming Stock Sales.

## Camphen 1st.-Shorthorns: John Kelly and Jas. K.

 June 15th.-Imported Yorkshires: D. C. Flatt \& Son, at Hamilton. $\qquad$ Edwards andOnt.

## Will Visit Europe

Hon. John Dryden, Minister of Agriculture for On-
tario, and Prof. G. E. Day, of the Ontario Agricultural tario, and Prof. G. E. Day, of the Ontario Agricultural
College, sail on June 10th and June 3rd, respectively, for Great Britain, where they will investigate agricul-
tural conditions. They will probably extend their trip to Denmark, in order will probably extend thein
trestigate the bacon iu-
dustry, which, it has been stated, threatens to become dustry, which, it has been stated, threatens to become
a keen competitor of Canada in the British mar-

## symp dian To

The Winter Fair at Guelph. In conjunction with the Toronto Junction
Stock-yards project, and the proposed new livestock pavilion there, with which the names of some officials were connected, disquieting rumors have
been abroad for some time as to the future home of the Ontario Winter Fair, which has been so successfully conducted at Guelph. In consequence, a joint conference was held in that city on May
18th, between representatives of the Board of 18th, between representatives of the Board o
Trade, the Fat-stock Club Township Councils, and Hon. John Dryden and F. W. Hodson, the Livestock Commissioner. Hon. Mr. Dryden assured the Guelph representa-
tives that the impression that the Winter Fair and Sives that the impression that the Winter Fair and was an agreement with the Government that the fair would be maintained in Guelph, where a large amount of money had been expended upon the buildings. Guelph was better adapted for a suc-
cessful educational event, like the Winter Fair partly because of the location of the Agricultural College. Mr. Dryden said he was not connected with the Union Stock-yards project, though he ympathized with the idea of developing a CanaTo aid the eastern part of the Province, an adjunct of the Winter Fair was conducted at Otplained his position, a resolution of thanks was

## News from the Capital.

Mr. J.H. Grisdale, Agriculturist at the Central Ex-
perimental Farm, gave special attention to ensilage in his evidence before the Agriculture Committee of the
House of Commons, the prosent session. Roots, he Haid, made the best feed, but theysion. Were more exp, he
saive on account of the larger amount of manual labor sive on account of the larger amount of manual labor
required in their cultivation. The Agriculturist said that ifteen pounds of ensilage a day, fed to horses, St. Lawrence in Ontario, farmers were abandoning silos because they had not properlys built them. Silos
should be round, with an outlet at the bottom, and the should be round, with an outlet at the bottom, and the
walls perfectly vertical. Th silo should be high and perfectly air-tight. A stave silo, which can be built
tor $\$ 1.00$ or $\$ 1.50$ per ton capacity, was best for farmers of moderate means. A cement silo would cost from $\$ 2.00$ to $\$ 4.00$ a ton. Mr. Grisdale said
that clover hay was better fodder than timothy when the former is well saved. This was on the same prin-
ciple that clover pasture was better than timothy. If a farmer were not depending on the markets for profit timothy. pay him to grow clover in preference to
to Giving some comparative figures, derived from
tests of the past season, Mr. Grisdale explained that it cost $\$ 33.00$ to produce an acre of roots, and $\$ 24.00$ for the same area of corn. These sums paid for rent
of land, labor, manure and seed. On an average,
corn cost 50 cents a corn cost 50 cents a ton more than roots
STEER-FEEDING TEST.
The recent tests in feeding steers resulted in a re steer cost 11.9 cents a day, and the cost of putting on 100 pounds of beef was $\$ 3.22$. There was a profit
from the steers of $\$ 7.86$ per head. The profit from $\$ 8.95$ each. The average cost of 100 pounds of beef was $\$ 5.59$, which was 37 cents more than in the other class. The stock were grade Shorthorns, and the ani-
mals were of a uniform class. An Experiment three years ago, showed that the most economical method
was feeding the animals tied. A summary statement to the effect that matured steers were fed loose at
$\$ 15.00$ per head for 129 days; and tied, $\$ 15.50$ for $\$ 15.00$ per head for 129 days; and tied, $\$ 15.50$ for
the same time. The labor also cost more in the case the tied enimals Evidence was given that three-year-old steers were
fed at a cost of $\$ 5.22$ per hundred pounds for addded
flesh. flesh ; two-year-olds $\$ 4.30$, and yearlings, $\$ 4.50$. The
beef in each case was sold at $\$ 7.90$ per cwt. a pound more to fat pigs outside, in cabins, durthg winter, than in warm houses. Many farmers in On-
tario had tried the former method, which led to the EVIDENCE RE IRRIGATION.
rigation in the West. A large sum has been spent the last few years on artificial watering of lands at the
foothills of the Rockies. Heretofore, no formal testimony has been given Parliament.
DATES OF CENTRAL FAIP.
The dates of the Central Canada Exhibition have
been arranged this year so that stockmen may show at ing to Ottawa. It is the first time that these three exhibitions have formed a circuit. On this account, $\begin{array}{cccccc}\text { Ottawa expects a. } & \text { record exhibit of live stock from } \\ \text { Western } & \text { Ontario. } & \text { The Central Canada Fair opens }\end{array}$ September 16 th, the second last day of the London
Fair. The London Exhibition begins the second last day of that at Toronto. This arrangement is specially favorable to Western Ontario people, because the last
trip on which the railways carry stock free will be the trip on which the railways came. There is a special
long one, from Ottawa homed. long one, from Ottawa homed There is a special
gold medal for every breed of stock in the Ottawa
prize-list. The gitt of special prizes is the largest
on record. A staff is employed fencing the grounds,
and preparing for taking in the new poultry building, and preparing for taking in the new poultry building,
which is included in the winter fair building. The
park will be cut off, so that it will not be closed to
the public in the FRUIT IMPORTFRS MET
Six members of the staff of the Dominion Fruit In-
spectors, headed by Mr. A. McNeill, visited the mental Farm on May 17th, 18th, 19th and 20th, and Mr. Shutt and Mr. Macoun of the Farm. Dr. Fletcher,
Hon. Sydney Fisher and f'rof. Robertson were present the opening day, and gave addresses. The Inspectors are travel-
ling to spread knowledge as to orchard management. Several local fruit men attended the meetings at the Farm., The subjects taken up were, : " Soil Treatment," by Mr. Shutt; "Orchard Insects," by Dr.
Fletcher; " Pruning," by Mr. MeNeill, and "GraftFletcher ; "Pruning," by Mr. MeNeill, and "Graft-
ing and Spraying," by Mr. F. L. Dery.

## Mr. Jones' Holstein Sale.

The auction sale of registered Holsteins held by

1. Jones, Jr., valle Nova, Ont., on May 3rd, was grand success in every way. Many farmers in the home crowd was not as large as it would have been, but many buyers from a distance were present. As
the day was fine, and the cattle in the pink of condi the day was fine, and the cattle in the pink of condi-
tion, the bidding was brisk, and good prices were realized. The bull, Prince Yonintje Clothilde De Kol Carlaw \& Son, of Warkworth, Ont., at the handsome figure of $\$ 230$. Considernng his breeding and in
dividual merit, Mr. Carlaw has secured one of the best sires in Canada. The young calves sired by this bull were models in every respect. The average price fur was $\$ 110$ each. Below is the list of females sold. The
bulls were, with the exception of the herd-header, very young, from three days to ten months, and only the Queen De Kol, 10 years ; F. M. Carpenter, Stony
Creek Creek ................................................... $\$ 125$ Watarford
Helbon Gentle,

10 years; $^{2}$ F. Laidlaw............................................. Alymer 100 yde Wayne, 7 years ; B. Varey, Woodstock... 10 | Roxie Bess, 7 years ; Geo. Rice, Tilsonburg ......... 12 |
| :--- | :--- |
| Gentle 2nd, 5 years ; P. D. Fide, Oxford Centre.. 180 | Nierop Netherland's' Clara, 5 years; P. D. Ede... 140

Queen De Kol 2nd's Pledge, 4 years G. Millen. Queen De Kol
Fruitland
Netherland Bess, 4 years ; E. B. Varey, Wood- ${ }^{14}$
Helbon Blossom
Camphellford 2nd, 3 years; W. Stillman,
 Edna Wallace, 2 years; F. Leeson, Alymer
Bessie Gretqui, 3 years; R. Kelly, Hagersville Flora Netherland, 3 years; E. Laidlaw, Alymer.
Daisy Texal 4th's Roxie, coming 2 years; J. H Taylor, Scotland, Ont. .........................................

 T. W. McQueen, Tilsonburg ......................... Gentle Clothilde, ${ }^{10}$ months; M. Richardson \&
Son, Caledonia ....................................... Aggie Clothilde De Kol, 1 year ; C. E. Smith,
Scotland, Ont. .............................................. Villa Nova's Jewel, 1 year; R. J. Bowman, Clothilde Pledge De Kol, 3 mos.; M. Richardson \& Son, Caledonia .................................................
Gentle 2nd's Beauty, 3 weeks; P. D. Ede, Oxford Daisy Texal De Kol, 3 weeks; M. Richardson \& Blossom De Kol, 1 week ; L. O. Nelles, Boston...
Bessie Wayne's Buttercup, 1 month : T. W. Mc-

## Prince Edward Co. Notes.

2nd. Spring work was not generally begun until May bulk of seeding will be finished by the 20th, if we are not interrupted ly rain. The soil is working up well, and farmers are having no trouble in preparing a good prospect of a wheat wintered well, and there was every middle of April damaged it more or less the county over, and practically ruined it in some sections. It is doubtful if it averages half a crop for the whote
county. Clover suffered in the same manner, but in a much less degree. Stock wintered only fairly well on
the whole, the cold weather being probably the reason
 Srom $\$ 100$ to $\$ 200$ each; millck cows, from $\$ 40$ to
$\$ 50$, and sheep only about $\$ 5$. Hogs are on the $\$ 50$, and sheep only about $\$ 5$. Hogs are on the rise
again, local quotations being $\$ 4.80$ per cwt. About two weeks ago our largest drover shipped seven carloads to Montreal, and paid the farmers $\$ 6,000$ for
the same. This is evidence that Prince Edward prothe same. This is evildence that Prince Edward pro-
duces a great amount of pork. Egge are steady at duces a great amount of pork. Eggs are steady at
13c. per dozen. Dressed poultry 18 siky-high, chickene being worth from 80 e. to $\$ 1.00$ per pair. Butter sells at 18 c . to 20 c . per pound, and potatoes
about 90 c . per bag.
CANUCK

## A Budget of British News

(Special correspondence.)
The weather continues the very best for ell kinds of farm work, and although the season is decidely late, general well-doing either of stock or crop. The ex tensive breadths of bare fallows that were in evidence month ago, are now bright green with the delicats braird of barley and oats. Clover and grass layers, as and sanfoin and tares, are improving fast, and their progress has been especially noticeable this week y in in becoming abundant, and cattle are most lurned out. The increasing popularity of potato a ation is a feature of the times. While farmers, returns, pota been groaning over low prices and bad growing rich. Last se had, in many cases, been one, and in many cases, most disastrous a trying was a silver, or cases, most disastrous. But there shape of higher prices than hag the wheat outlook.
Wheat, very few to the condition of the autumn-som notwithstending reports are favorable, while the aree, wheat, is certain to be very small. It is computed that the home-grown crop will not be more than sive million quarters, and as our consumption, including thirty-two million quarters, wow not than the requirements from abroad next season reaching wenty-seven million quarters.
tariff commission
ts investigerlain Tarif Commission is atiml pursuing been before the and some important evidence ha Canadian Wheat Resources,"" from statistica phepared Ey Mr. C. N. Bell, secretary of the Winnipeg Grain the harvesting of the wheat statement, which relatee to the harvesting of the wheat crop of 1902, shows in Mr. the past year greatly exceed thoselpte of wheat for the past year greatly exceed those of Chicago, or of

Winnipeg
Duluth-Sup
51,832,000 bu $42,406,923$
$37,940,953$
" It will now be in
Mr . Bell goes on to remark: It will now be in order, as far as relates to the grain arrivals, at least,
to abandon the trite saying that winnipeg will some day be a second Chicago, for Chicago makes a poor center." The report continues: "The wheat acreage in Manitoba alone in 1900 was $2,040,000$ scres, ent that acreage yielded $58,000,000$ bushels of whent per acre, would yield all that Great Britain requires with $20,000,000$ bushels over; and Manitoba containg $64,000,000$ acres of land surface from whioh to select The Commission allo have
mation compiled by Dr. Wm. Saunders, Director of the Dominion Experimental Farms, but space forbide me giving any further extracts. has displayed considerable weakness under a cortain pressure to sell cargoes, and in' these a decline took place. The pressure, however, having to a certain axtent been removed, the market has reeovered somewhat
and shows certainly more stability at the decline. cattle trade
We are now looking forward to some good con-
signments of Canadian cattle. The trade signments of Canadian cattle. The trade at the for
eign animals wharl at Deptlord has fluctuated a good
deal deal lately.
waxed cheese not Liked.
Some time ago the Dominion Department of Agri-
culture introduced into our marketa cheese which had culture introduced into our markete cheese which had
been coated with a thin covering of cial enquiries made, I find that the innovation is not generally liked by our traders. They complaln that retailers will not buy it unless they have some ad
vantage given them in price vantage given them in price. They prefer the "old
cruasty " look of cheese, and, moreover, they say, the waxed is cut up, it dres not keep as well as the other. The cheese trade is very flat at present, and
one large dealer in Canadian prod one large dealer in Canadian produce, whom I was in-
terviewing yesterday, said, re waxing: "I terviewing yesterday, said, re waxing: " "Considering
our losses on cheese at present, tell your people to coat them with gold leat instead of wax, which is no
good, and retailers object to good, and retailers object to paying the price of cheeso Yor wax." Some of the cheese sent here from the and although it certainly has a clean appearance, it
is overdone. It looks what we call ". faked," is overdone. It looks whas we call "faked,", and
that's enough to spoil the sale. bacon.
slack enquiry for Canadian cures has been somewhat slack, the dealers not takfing on very strongly with thit
kind of meat just now, and as no pinch in applie experienced, but rather the reverse, the sales witected have been without any improvement in values. priees now ruling pretty well at the very modorat priees now ruling for all deseriptons, supplite the

A New Contagious Disease of Horses.

The following is a
yy the Boord of Agriculture of England
(1) There has recently been introduced int Great Britain a contagious disenease anfrecting horses known as epizootic lymphangitis. It has for many vers existed in Italy, and in several other coun
tries in Europe; it is also prevalent in India, an In some parts of South Afric
(2) The characteristic symptom of the disease
consists of a swollen condition of the lymphatics of the skin on the inside of the hind legs, but the same condition may also be present on the side of the neck, or on the body. In most cases snuall hodules, varying in size from a pea to a hazel-
nut, will be found, which eventually burst and dis charge a small quantity of purulent material containing an organism-the cryptozoccus-which is the cause of the disease.
(3) The cryptococcus, when microscopically ex
mininod, presents itself as an ovoid body with distininet, presents itsself as an ovoid body, with fractile contents. Owing to its considerable size, and its characteristic form, it is readily detected under a magnification of 400, and to this end it is
not necessary to use any stain. The orghnism is enesily trenslerred from the wound of $a$ diseased horse to a wound on another horse not affected with this diseare, and the most common means of such trangter is no doubt fy the agency of sponges, have been used about diseased horses, or possibly by the hands of the ettendant
ymphangitis may censinical be symptoms, epizootic lymphangitis may easily be mistaken for the farcy
form of glanders; it can, however, be differentiated from that disease by a microscopical examination of some of the discharge from one of the ulcers, when the cryptococcus which is the cause of the disease will be found, or by an application of does not respond.
(6) As the germs of the disease have been known to linger about a stable for a very con-
siderable period,
the owner should afford siderable period, the owner should afford every
facility for carrying out $a r$ igid system of cleansing and disisifection in respect of the whole of the
stable or other place in which an âfected horse stable or other
has been kept

## Wallaceburg Sugar-beet Prospect.

The Wallaceburg Sugar Company, up to date, have
ut 4,800 acres under contract to grow beets, which will te cultivated by 1,186 growers The condition is being carried on in a most satistactory manner ao that the prospects for the crop this year are much better than at any time since the Company began the growing of sugar beets in . Canada. Mr. D. A. Gor-
don, the mangegr, states. :"We are ploned . don, the manager, states: "Wo are pleased to repot
that not only the farmers, but consumers generally are beginning to recognize the fact that beet and cat
suggar are identical. Sugar eales are excellent, the only cause for regret that we have, is that
have not a much larger quantity to aver,"

## Ontario Agricultural College Staff.

The Hon. John Dryden, Ontario Minister
griculture, has approved of a rearranyement of the O. A. C. staff. Hereatter there will be a pro-
fessor of field hustbandry and a professor of animal
hustandry. Mr. G. F. Day, who is now the hustandry. Mr. G. E. Day, who is now the pro
fessor of agriculture and farm superintendent, will lessor of agriculture and farm superintendent, will
be relieved of the latter portion of his responsibil位解, and will be placed in
now director of field

## noted

## - Guelph, Ont., Forestry Plantation.

## rees will be ready for distribution to Ontari

 farmers from the Agricultural College at fiuelphDuring the past fortnight there have been trins planted about 50,000 two-year-old evergreens pine, Norway spruce, larch, etc.-and there is Enough ecorns seed to grow 30,000 more
Eathered for at least 100,000 red and white oak trees, a variety of commercial
timber which cannot be very well transplanted but which grows somewhat rapidly from seed. Besides hese there are several other

## Canadian Papers in Britain.

## sioned by the Canadian Government who was commis

 land to secure e information revermenting immigration to toCanada, believes that in Canada, believes that in 1904 more immigrants
come trom England than in any previous year vocates the placing of good Canadian papers in He add libraries of England, as the best means of advertising
the countr the country. He had found that every Englishman was ready to listen to facts about Canada when they were
given officially.
On several occasions.



South Perth.
The seedtime here has been dry; the rapid growth which followed the long winter was thus soon checked, and prospects for awhile seemed viver backward; but copious rains have again re oth the face of nature, giving a good star to have grain and grass seeds. Stock appear to or such turned out in a faily thrify co making the mistake of hand winter. Some areas tod early, which very effectually checks its growth and impoverishes the animals at a time later on when they have lost all taste for hay or othe whod fodder. This is a serious mis a eing int grazing business, os mony are now eidently doing razing business, as many are now eridenty doing cultivation of large areas of land. Hitherto we have thought it unwise to report as to the wintering of bees, as it is the experience of leading apiarists that backward weather in spring is al most as trying as the winter itself, and it is not till settled warm weather that the owner can safely count his losses; and with most of them this year we fear they have been heavy. From all we can earn we think that a conservative estimate would The factory season one-quarter to one-third. first the month, but the supply of milk was meagre, $\rho$ wing, we presume, to the late spring, and partly to the low price of cheese and poor prospects for have decided to creamery Company system, as it was found impossible to stem the tide in favor of hand separators ; consequently, some of the separator stations were closed, and the patrons persuaded en masse to purchase the
hand machine, which, unless they tire turning it will probably remain in favor, as the fresh
skimmed milk is supposed to be much better for the calves, and the owner knows what amount

## The King's Plate Race

The race for the King's Plate, the oldest and most classical race in America, was won on Satur three-year-old Sapper, who covered the mile and quarter in 2.12 , beating the former record of 2.1 fifty guineas, with an added purse under the auspices of the Ontario, Jockey Club The event has now become a fixture for the firs Saturday before Empire day, on the Woodbine track, Toronto. This year there were fourteen horses to start, representing eight stables. Only Province-bred horses, three years old and upwards, that have never won a race, that have
never left Canada, and have never been out of the never left Canada, and have never been out of the
Province for a month or more, are eligible to com Province for a month or more, are eligible to com-
pete in this classic event. The second horse pete in this classic event. The second horse th drie, of Hamilton, and third was the public favor-
ite, War Whoop, entered ite, War Whoop, entered by Mac enie Bros., the
family of railway iame. The value of the race is
the fifty guineas with $\$ 1$ ano the firty guineas, with $\$ 1,300$, for first; $\$ 450$ for
second, and $\$ 250$ for third. The length of the

## A Child's Heart

## A curious-looking old woman, having a bundle in

 a curbstone to rest. A group of three little ones, the saying never a word, but watching her face. Shesmiled. Suddenly the stand old calico apron went up to wipe away a tear. The the oldest child asked
$\qquad$ whispered the children once, but they are all dead,' "I am sorry," said the little girl, as her chin quivered. "I'd give you one of my hitle brothers,
but I haven't got but two, and I don't believe Id like to spare one." ${ }^{\text {go }}$
the old woman, and for a minute her face was buried inued the child tell you what I'll do," seriously con lithe Ben isn't afraid you may kiss us all once, and if
he's just as sweet as candy", him four times, for Pedestrians who saw three well-dressed children put
their arms around that strange old woman's neck and


To clean suede gloves, place them on the
hands, then rub thoroughly with fine renewing the meal several times. Finally brush
the meal from the gloves with a soft brush.

## The Preacher at the Pump.

Many years ago a certain minister was going on Sunday morning to his Sunday School. He walked hhrough a number of streets, and, as he turned a corner e saw, assembled round a pump, a party of littlo boys playing marbles. On seeing him approach they be the could One little fellow did not see him so ss the rest, and before he could succead to op his marbles, the minister had come to him taced his hand upon his shoulder. They were tece ace, the minister of God and the poor little ragged boy who had been caught in the act of playing marbles on Sunday morning. And how did the minister deal with the boy? That is what I want you to notice. He might have said to him, "What are you doing there? You are breaking the Sabbath. Don't you

But he did nothing of the kind. He simply said, Have you found all your marbles

$$
\begin{aligned}
& \text { No," said the boy, "I haven' } \\
& \text { 'Then," said the minister, " I' }
\end{aligned}
$$

hen, said the minister, Ill help you." Where no stooped down, and began to look Yor the
 can beat you, but." he added. ." I neyer played marbles Sunday " The little boy's attention was now arrested. He
iked his friend's face, and began to wonder who was. The minister said : like to be will you come with me r, Said the boy, "Where do you live?
Why, that's the minister's house 1", exclaimed the boy, as it he did not suppose that a kind man and
minister "Yes," said the man, "I am the minister myself and if you'll come with me I think I can do you some good

Said the boy, " my hands are dirty ; I can't go."
But." But," said, the miniter, "here's a pump; why
Waid them toy, "I'm so little I can't wash and Said the boy, "r'm so little I can't wash and
mp at the same time." pump." and the boy washed his hands and face until they were quite ellean.
Saifd the bas
don't know how, " My hands are wringing wet, and 1 Thn minister pulled out a clean handkerchief, and offered it to the bo

Said the boy, "But it is cleant
reply ". but it was made to be
The boy dried his hands and face with the handKerchief, and then accompanied the minister to the door
of the Sunday School. Twenty years atter, the minister was walking in a street of a large city, when a tall man tapped him on the shoulder, and, looking into his face, said, "You don't remember me ".
"No,"said the ministe

No,"said the minister, "I don't
Do you remember
ittle boy playing marbles remember that boy's hands being too dirty Do you school, and pumping for him, and speaking kindly to
him, and taking him to school ?", ". oh !.". said the minister, "I do remember. rose in business and betcame a leading man. I inave attained a position in society, and on seeing you to-day
in the street $I$ felt bound to come to you, and say that in the street 1 felt bound to cone to you, and say that
is to your kindness and wisdom and Christian disa cretion-to your having dealt with me persuasively-
that I owe, under God, all that I have attained and

## What Boys Should Know.

A. philosopher has sald that true education of boy
they become men. Forth anything that does not include No education in would better not know how to read, and be true and ciences and in all rather than be learned in all the false in heart and counterieit in life. Above all thing each the boys that truth is more than riches thowe 2. To be pure in thought, lankuage and life-pur in mind and body.
comforts of othera. To care for the feelings ant This will include a genuine reveronce, noble and manly lor things sacred.
4. To be sell-reliant 4. To be self-reliant and self-helpful even from
childhood. To be industrious always, and self-supporting at the earliest posililious always, and sell-support Ing at the earliest possible age. Teach them that all on others io disgraceful. made these boy has learned these things, when the has made these ideas part of him, however poor or how-
ever rich, he has learned the most important things
he ought to

Treatment of Wounds and Cuts. Severe cuts and wounds need most careful treatment, or blood-poisoning may follow. Care-
ful dressing of wounds will often prevent very bad scars. Over a punctured wound place a pad, which must be removed if infarnmation ensues, to allow the discharge to escape. A wound caused
by a rusy nail or similar substance should be cut to favor the escape of blood or foreign be cut, which may be left in the wound. Water that has been boiled and pieces of old linen are always the best to use in dressing cuts and wounds.
On no account use a piece of unwashed calico for this purpose. Rolls of old linen and adhesive plaster should always be at hiand where there are children. Cleanse the cut from blood, dirt and all foreign matter, then bring the edges of the
wound together, and apply, diagonally, several wound together, and apply, diagonally, several
otrips of adhesive plaster, pressing each firmly to the skin. When cotton wool is applied, medicated cotton only should be used.

## MARKETS

The past week has seen improvement in export and butchers' cattle, and in the cheeso prices. The re quirements to fill space was probably responsible for much of the strength, as prices settled down again after the first flush. Cheese was hardly expected to bulge so soon, considering the large supplies reported, and the low level to which the market had fallen Dealers claim the improvement is owing altogether local trade conditions. Littie is being done in grain Montreal's quotations being 50 c. mark at Toronto
LIVE STOCK

Export Cattle.-The demand for cattle is brisk, an the quality of the cattle is generally good. All lines were cleared early. Extra choice are quoted at $\$ 4.85$
o $\$ 5.20$ per cwt.; choice, $\$ 4.50$ to $\$ 4.75$, others to $\$ .20$ per cwt.; choice, $\$ 4.50$ to $\$ 4.75$; others
$\$ 4.20$ to $\$ 4.40$, and cows at $\$ 3.50$ to $\$ 4.00$. Butchers' Cattle.-Buyers were in need and the best steers and heifers are quoted at $\$ 4.65$ to $\$ 4.75$ per cwt.; good to choice loads, $\$ 4.30$ to $\$ 4.60$
fair to good, $\$ 4.00$ to $\$ 4.25$; mixed lots $\$ 3.75$ to $\$ 4.10 ;$ good cows, $\$ 3.25$ to $\$ 4.00$; common to fair at $\$ 2.75$ to $\$ 3.25$,
Stockers and Feeders s brisk, although not many cattle in tith these line oming forward. Short-keeps in good conditionses ar
 Milch Cows.-T
$\$ 30$ to $\$ 60$ each.
Calves.-There are too many of inferior quality
coming forward. The
 Sheep and Lambs.--Prices have a firm inclination
Export ewes are steady at $\$ 4.00$ to $\$ 4.50$. grain-fed Export ewes are steady at $\$ 4.00$ to $\$ 4.50$; grain-fed
ambs at $\$ 5.50$ to $\$ 5.75$; and spring lambs at $\$ 2.50$

Hogs.-Selects, $\$ 5.00$; lights and fats, $\$ 4.75$ GRAIN AND PRODUCE.
Wheat.-No. 2 white and red winter
 81c. to 82c. east; Manitoba, No. 1 northern, 12 c .,
Georgian Bay ports; No. 2 northern, 85 c.; No. 1 hard, Georgian Bay po
nominal at 93 c .
Millfeed-Market is steady at $\$ 17$ to $\$ 17.50$;
shorts, $\$ 16 ;$ Manituba bran in sacks, $\$ 17 ;$ and
shorts, \$19 here.
Barley.-No. $2,42 \mathrm{c}$., middle freights ; No. 3 extra,
Barley.-No. 2, 42c., middle freights; Yo. 3 extra,
40 c to 40 c c. ; No. 3, 38c. to 39 c ., midule freights.
Buckwheat.

Rye.-57c. to 58 c ., outside.
Co:m.-No. 2 American yellow, (i0c. on track at
Toronto ; No. 3 mixed, 58 c. to 59 c . There is little Canadian corn offered, and prices are quoted at 44 c . Oats. - No. 2 white, 31 llc . to 32 c ., west, and 32 c . east, 32 tc ., middle freights ; No. 1 white, 32 jc . to 34 c Peas.- 11 c . to 62c. for No. 2, west or east.
Baled Hay.-Car lots on track here, $\$ 9$ per Baled Straw. $\$ \$ 5.50$ per ton for car lots, Toront Potatoes. $\mathbf{\$ 1 . 0 0}$ to $\$ 1.05$ for car lots on track Butter.-Creamery prints, 17 c . to t - 18 c . ; stock.
dairy rolls, good to choice, 11c. to 13 c .; dairy large rolls
11c. to 12 c . Cheese.-Large is now quoted at $8 \nmid c$., and twins al Eggs.-Receipts are still rather light, and the ma et is unchanged at 15 c . per dozen.

| Retail Frices, Toronto' Street Market |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Wheat, white $\qquad$ <br> do red <br> do goose <br> do spring |  | 95 |  |  |  |
|  |  | 94 |  |  |  |
|  |  | 80 |  |  |  |
|  |  | 90 |  |  |  |
| Oats |  | 37 |  |  |  |
| Barley |  |  |  |  |  |
| Rye |  | 61 |  |  |  |
| Peas |  | 68 |  |  |  |
| Hay. No. 1 timothy.............. do, mixed or clover |  | 00 | to |  | $\begin{array}{r} 1350 \\ 900 \end{array}$ |
| Straw, sheaf ......................... |  | \% 00 | to |  |  |
| Dressed hogs, light, cwt. do, heavy |  |  |  |  |  |
| Butter |  | 17 | to |  | 20 |
| Fall chickens, pair $\qquad$ do, per pound $\qquad$ |  | 15 | to |  | 16 |
|  |  | 75 | to |  |  |
|  |  | 14 | to |  | 15 |
| old hens ........ |  | 10 | to |  | 12 |
| Turkeys, per pound Apples, per barrel |  | 15 | to |  | 18 |
|  |  |  |  |  |  |

## Cheese Markets

Brockville, May 19.-All the cheese on offer sold for view R. G. Murphy, who went to Montreal to inter hat a rate of 15 c . per hundred had been secured. Tweed, May 19 - -33 boxes of cheese were boarded
Kingston, May 19.-635 boxes were boarded ; 495
collored, and 140 white. Bid 7 fl. Madoc, May 19.-720 boxes offered. One hundred sold at $77-16 \mathrm{cc}$; 260 at $7 \mathrm{fc} ; 75$ at 7 gc .; balance
unsold.

$$
\begin{aligned}
& \text { unsold. } \\
& \text { Picto }
\end{aligned}
$$

Picton, May 19.-Thirteen factories boarded 860

and 193 boxes colored cheese boarded 847 boxes white 471 boxes were reporled as being green for sales Napanee-Thre The rest sold at 7 Tic. Napanee.-Three thousand one hundred and fifty-nine
boxes of cheese boarded ; sales, 564 white and 100
Perth.-One hundred and sixty boxes sold at $8 c$. Ottawa.-There were 474 boxes boarded on the ot Cawa Cheese Board, of which 81 were colored. The
highest bid was 7 fic., at which nearly all were sold. Winchester-Two hundred and fifty-seven white and 73 colored were registered. Price bid, 7 fc .; none sold. Alexandria.-Seven hundred and seventy-one cheese Were boarded, 627 white and 144 colored ; all sold for Iroquois.-Six hundred and eighty-five colored cheese Most of the cheese were subsequently sold on curb at

Farnham, Que.-One hundred and twelve cheese were at 7 ld c., and 150 butter at 151 Kemptville.-Fiight hundred and elghty-seven boxes of at 8c., for both white and colored.
Bellevinle. $-1,820$
were offered. were offered. Sales, 810 at $8 \mathbf{8 c}$.; 400 at $88-16 \mathrm{c}$.; belance refused at $8 \mathbf{8 - 1 6 c}$.
London.-Seven factories offered 680 boxes; sales,
250 at 8 tc .; 100 at $8 \pm \mathrm{c}$.

## Montreal Markets.

Montreal.-The local demand for oats is Rair. Quotations are generally $\mathbf{3 7 7 c}$ c. to $\mathbf{8 8 c}$. for No. $\mathbf{3}$, and 88 jf c. afloat, May; No. 2 barley, 50 c., and No 3, extra. Flour -The market is firm. Manitoba patents,
$\$ 4.90$ to $\$ 4.95$; strong bakers, $\$ 4.80$ to $\$ 4.85$; winter wheat patents, $\$ 4.80$ to $\$ 5.10$; straight rollere, $\$ 4.6$
to $\$ 4.85$; straight rollers, in bags, $\$ 2.20$ to $\$ 9.80$ Feed-The market is in bags, $\$ 19 ;$ shorts, $\$ 21$ per ton; Ontario bran, it bulk, $\$ 18.50$ to $\$ 19$; shorts, $\$ 19.50$ to $\$ 20$; mouillo
$\$ 26$ to $\$ 28$ per $\$ 26$ to $\$ 28$ per ton, as to quality.
Hay.-No. $1, \$ 10.50$ to $\$ 11.50$; No. $2, \$ 8.50$ to Hay.-No. $1, \$ 10.50$ to $\$ 11.50$; No. $2, \$ 8.50$ to
$\$ 9.50$; clover, mixed, $\$ 8$ to $\$ 8.50$; clover, $\$ 8$ per ton, in car lots.
 Hoge.-Fresh killed abattoir bogs, $\$ 7.35$ to $\$ 7.50$ : Eive hogs, $\$ 5.25$ to $\$ 5.50$.

Butter.-New-made; 15c. to 16c. ; Western dairy, 120 Cheese. - New fodder, Outario, 8 zc . ; best Quebec,
7 ct. to 7 fc.

## Buffalo Markets.

East Buifalo.-Cattle-Prime steers, 85.15 to $\$ 5.25$ : ahipping, $\$ 4.75$ to $\$ 5.10$; butchers', $\$ 4.85$ to $\$ 5$ Hogs-Heavy and mixed, $\$ 5.15$ to $\$ 5.20$; Yorkerk $\$ 5.10$ to $\$ 5.20:$ pigs, $\$ 5$ to $\$ 5.10$.
Sheep and Lambs-Lambe $\$ 7.10$; yearlings, $\$ 6$ to $\$ 8.25$; wethers, $\$ 5.25$ one lond 85.65

## Chicago Markets.

Chicago.-Cattle-Good to prime steers, $\$ 5.20$ to feeders, $\$ 8.25$ to $\$ 4: 60$; Texas-fed steers, $\$ 2$ to $\$ 4.60$. Hogs-Mixed and butchers, $\$ 1.55$ to \$4.821; ;ood Sheep, Go0, 84.75 to $\$ 4.87$
to choice, mixed, $\$ 4.25$ to $\$ 4.75$; clipped native lambe $\$ 4.50$ to $\$ 6.15$.

## Montreal Live Stock

c. Montreal.-Cattle-Good cattle, ste. per lb. ; othor,



British Cattle Market.
London.-Canadian cattle are steady at 11 j c . to


## Wool.

Montreal.-Canadian fleece wool keepa firm, round Montreal.-Canadian fleece wool keeps firm, round
lots of Ontario washed fleece being quoted at 19 c . to
20 c ., and unwashed, 15 c . to 16 c .

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The Rebellion of M'lindy Ann. THE STORY OF TWO EVENTFUL
JOURNEYS FROM THE BAROURNEYS FROM THE BAR
ROWS' FARM TO THE
By Julia Truitt Bishop.

When Eli Barrows was fairly set in at his work, he was an adept at hectoring ;
and it was his pleasure to hector on thi and it was his pleasure to hector on this
occasion.;
al "Yes," he declared loftily to M'lindy
Ann as he hitched up: "I've sold the
hill plose hill place for three thousan' dollars-
three thousand'-do ye take that in? three thousand'-do ye take that in
I've got the whole pile in my satchel there, an' $\mathrm{I}^{\prime} \mathrm{m}$ goin' to ketch the eight o'clock train for the city an' put it in
bank. No, you can't go along. It's bank. No, you can't go along. It's
jest.a matter of business, an I can
'tend to it myself, without the expense of two goin'. What do women know about business, any way I reckon I
know how this money's come-by good, hard hitcks-an' 'mve been a good gart of
my life makin' it, so it stan's to reason my liff makin' it, so it stan's to, reason
I'd know how to take keor of it." "I've worked pretty hard for it, my-
self,'" said Mrs. Barrows, meekly. She
was a little woman with iron-gray hair, and her voice was soft and plaintive.
EH laughed, throwing EH laughed, throwing back his head. jeeringly. .'. What does any woman
know about work, I'd like to know ? Alknow about work, I'd like to know? Al-
ways in the house, havin' an eesy time,
while men's out in the or all they're worth. I b'lieve you'd complain if you was in Paradise, M'lindy
Ann. You don't know when you're well Ann. You don't know when you're well
off-a good home, an' little to do, an' a
chance to go to church chanoe to go to church every other S
day, besides the political speakin's! M-ned resignedly,
tind rent into the house which Eli had mentioned. "The broom
was going ewiftly and steadily was going swiftly and steadily when her
lord came in and took up the leather lord came in and took up the leather
satchel from the table.
" I'll be home in the mornin' early train," he said condescendingly for he was always ready to forg
M'lindy Ann for her shortcomings,
took great credit to himself therefor took great credit to hhimselcomings, therefor, and
being "" easy to get along with." ". You can wait breakfast-1'11 be pretty hungry, I reckon."
"Buy a rounn
Brip ticket, Eli;," suggested M'lindy Ann mildly. But there
could not have been any ulterior motive in her suggestion, for she added under his long run, ye know "You talk like you travelled for
livin'," muttered Ell, as he went out the buggy ; and the broom swept steadily on, through one room and into another
One could live with M'lindy Ann in comparative comfort. She never talked back. wisht ye had some new clothes,
"li, " she called after him as he sat in the buggy, his knotty hands with the reins in them resting on the knoes of his
baggy old trousers. baggy old trousers.
If my clothes suits me, there ain't nobody else got anything to do with
"em," he proclaimpd testily. If any-
body wants to laugh at my clothes, lat.
'em laugh. They'd laugh on the other side $\mathrm{o}^{\prime}$ their mouths if they knowed I had three 'thousan' dollars in that little notice. notice.
She was at the door, watching the bend himself. Reaching town, he stabled his horse near the station and bought that anyhow, of course. was going to do gestion had nothing to do with it.
Wonen were always giving advice where it wasn't really needed.
Eli's trip to the city was not dull nor that the car was somewhat crowded, and a gentleman asked permisston to share
his seat. He was a well-dressed gentleman, with kid gloves, yet he did not hesitate to speak pleasantly to a homely
old farmer like Eli Barrows, commenting old farmer like Eli Barrows, commenting
on the perfect winter weather, and asking after the last summer's crops with
the greatest interest the greatest interest. It turned out that Legislature, on a little tour for health and pleasure, and Eli cheerfully gave him a great deal of information concerning th " You know, I he lived. mong the farmers," said the gentleman from Missouri. © Of course a large number of my constituents are farmers, and
whenever I can get away I go down
among them country fare as they give me! Such fried chicken-such butter and milk" I wisht ye'd call in on as you' goin' back,', said Eli, warmed to the heart. "We've got a pretty prosperou
place- $\mathrm{I}^{\prime} \mathrm{m}$ jes' takin' three thousan' to the city now, to put it in banke." up
The member of the Missouri Legislature The member of the Missouri Legislature
looked alarmed. "" Hush! Don't tell that to every one," he whispered. "Have you friends in the
city Do you know where you are goswelling : .' know yet," said Eli, visibly swelthe hig hot I reckon I'll strike one
o $^{\prime}$ the hin dinner-somethin't
along alout forty or fifty cents-I don't
$\qquad$
$\qquad$ uncle is goin' to git pasted over otost
head with this here umbreller the them, working together,", are said the the gen Keman from Missourt with deep concern. address of a place he always goes to it I haven't lost it-ah, here tt is it He says it is a very plain place, but the meals are fine. Suppose we both go
there; and I'll keep you in sight after dimner till you geep your money banked. ing conversation we have had this morn ing, I shall not feel safe until you get
that money into the bank." And they reached the city, and Eli Barrows, smiling and grip-laden, went off
in a cah with the member of the
Missouri
$\qquad$ M Mlindy Ann had heard the distant rumbe of the early morning train as it
crossed the valley at the liack of the
feld and sped away to the little two miles further on. Breakfast was
ready, and she was keening it warm on the back of the stove.
The entire house was speckless and in its best Sunday clothes : and, strange to
relate, so was Mlindy Ann. Her worn black, so was M'lindy Ann. Her worn
black dress was brushed to the last do gree, and shawed its threadbarenest for-
lornly. Her shabby old bonnet was of the road. Her face was colorless,
even to the lips.
Unconsclously her fingers plucked and twisted the ends of
the ribbon bow at her throat into little the ribbon bow at her throat into little
black spirals.
M'lindy Ann was plainly much disturbed.
When a little cloud of dust came crawling around the bend of the road,
M'lindy Ann hestired herself and set M'lindy Ann hestirred herself and set the
breakfast on the table. Everything was ready when Eli stepped in at the door,
and M lindy Ann looked up, pretending and M'lindy Ann looked up, pretending
not to notice that he was trembling from not to notice that he was trembling from
head to foot, and that he leaned against the door for support. What she really
did notice was the other fact that his clothes were muddy, that his coat was orn, and that his hat had been crushed
almost beyond recognition. M'lindy Ann hastily set a dish down on
the table. "I see how it is," she said. "You've
been run over ty one o' them street cars,
Eli which Eli. Which ones o' your bones is
broke ? ", Eli burst into futile tears, and sank into a chair.
'It's worsen that M' "It's worse'n that, M'lindy Ann!" he
sobhed, with his arms on the table
among the dishes ar among the dishes and his head on his
arms. "I've been robbed an' drugged. arms. "I've been robbed an' drugged.
I've lost the whole pile -an' it's my own tarnation fault I I was too pesky inwas a member of tne Missouri Legisla-
ture, an' how was ture, an' how was I to s'pose he was
lyin' ? An' the game they showed meI could 'a' beat it with one han' tied
behin' me. I seen my way clear makin' another thousan' or so, clear to put in
the bank along with the the must 'a' put somethin' intor ; but they
didn't drink more'n beer-I M'lindy Ann-an' I couldn't move hand
or font when then or foot when they went into the satchel
an' took the whole pile. An' then the come back an' kicked me all aroun', an'
tramped on my hat ; an' when I woke up I was jes' in time to ketch the train
back. I'm ruined, M'lindy Ann! The
money I've worked, so had
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$ have, bin't worked as hard as what I
fur youre you're entitled to half fur ye've kep' the house mighty naice;
but it's all gone! What's the matter,
M'lindy M'lindy Ann? Where ye goin matter, ". As soon as breakfast's over, I'm
goin' to start for the city," Goin' to start for the city," said M'lindy
Ann, who was quietly drinking her
coffee. She had laid her coffee. She had laid her bonnet on a
chair with the cape ; and beside it was a
bundle wrapped bundle wrapped in paper.
"Goin' to the city?" gasped Eli in
deep amazement. "Yes-I'm goin' to the city to put
some money in the hank," said M'lindy ann, eating serenely, the while she kept
a pair of dark eyes fastened on Eli's as-
tounded visare. three thousan' dollars with goin' to take your grip when you was goon' out, of
bumptious an' so pleased with your-
self!!" Eli's Jaws dropped apart, and his
hands hung timp at his sides recovered himself, at his sides. When he
woman was tying her
mentel; her rusty black cape hung over neat bow under a determined clinn, look
ghim calmly in the eyes the while. "M'lindy Ann, you've got that
money? "You'd taken it out before I lef' home. The man-the man from Missouri didn't
get it ?" Eli Barrows, you went up to the city wrapped up in of wood in your satchel, hoking the old black, cape under her felt that it hone him good. Take keer of the place, Eli. See that the chickens has fresh water, an' don't forget to wind the clock, an' be shore to put the
cat out of the house every night. I'd tell ye to wash the dishes every day, but I know good an' well you won't do it. This day week you can meet me at the
train. You might as well drive down to the depot with me now, so's you can bring the team back."
Eli's jaws made connection slowly. Eh's jaws made connection slowly,
" M'lindy Ann,", he said, meekly, hadn't 1 better go along with ye? We
could git 'Liza Briggs to mind the place " "You stay right here," said M'lindy Ann, composedly. ${ }^{2} 1$ don't want
nothin. learned while you was in the city !" An with this parting thrust a very to the buggy, followed by a tall' and out ject-looking man.
ofi on the train with for to woman to go he said as they drove up beside the little red station. "No tellin' what'l become of ye, M'lindy Ann."
"'There won't nothin' become of me," said M'lindy Ann composedly. of me," have the buggy here to meet the evenin' train one week from to-day-an' you look after the house. There ain't much
to do, you know. You tol' that my work didn't amount to yosthin' ${ }^{\text {, }}$ Aiter which M'lindy Ann, the hectored and brow-beaten, disappeared into an unPerhaps there III. may have been yeara that were as long as the week of
$\mathbf{M}$ lindy's absence, but Eli had never experienced them. The work put new cricks into his back and unexpected
blisters on his hands; and Sooner completed a meal and got things straightened up" than he had to begin
on another, and get them unstraightened The same thing was to do over and over and over, not only every day, but
three times a day. He looked at the soiled dishes with loathing, and swept in corners middle of the Hoor, shunning the churned the first day, but milter thang and merely milked, considering that butter seem thaterly bought. After all, it did the easiest Mindy Ann's work was not this saving grace-she was used it had No doubt when one got used to it everyAt last he sery smooth sailing. and saw M'lindy Ann step from the train and walk toward him with the light step of "Well, how's everything ?" she asked in a clear voice that he did not know. Well, whove house is in a mess, I s'pose? thing cleaned up !"" her to legin ; but she did not begin un-
til she was seated in the the was seated in the kitchen, with
the lamp-light showing a new expression in her eyes.
" Well, M Mlindy Ann," said Ell M1ldly,
"how'd yo come on 'n the city ?," how'd ye come on in the city?"
noncommittal. He was ready, it she ac-
kninch, which seemed to be sufficiently con- went to the city the cows wouldn't 'a' ot
knoer at. her forever and a at hea a and but hy vincing.

 Mlindy Ann. He had lived with ner pleasant memories Ann, with the light of thing, but she incidentally held up an
twenty years, but it took more than that wanted twenty years, but it took more than that wanted me to stay a month, but I'd old leather grip before his eyes, turning
to learn all about M'lindy Ann.
said lown and shaking it to

 gan taking things out of her satchel-ths the greatest place to rest I ever saw. We
same satchel which had journeyed with set down the Eli while, he was learning the ropes. "Welt," she said, deliberately, "the had people hired to sing for 'em so stonal an' hatf in the Germania. I di- there warn't a thing to do. It rested me vided it, so's in case one of 'em broke. up a whole lot. Then Monday I hunted I've got two bank-books an' two checkthat money'll hey are. Every check on to be signed by mebut, of course, I won't be mean about it, Eli. I consider that half of it's yours, anyhow.
Eli winced and smiled in sickly fa-
shion, but M M lindy shion, but M'lindy Ann only cast a fleet-
ing glance at him. ing glance at him.
I. I made another deposit of four
hundred and fifty dollars in then hundred and fifty dollars in the People's
Bank,", she went on calmly ."That's Bank, she went on calmly. "That's 1 was in the city." "M Masped the astounded
Eli. " Yes," she answered, as if he had
asked a question. "/ I thought I asked a question. "I thought I might as well make use of my time while I was
there-so I went around among the men an' tol' 'em who I was, an' what we needed-an' I got the money without
any trouble.
One o $0^{\prime}$ the big lumber any trouble. One o. the big lumber
men there has promised two hundred men there has promised two hundred
dollars' worth o lumber, an' another is
goin' to pive the sents goin' to give the seats for the church- with a feather on it an that-an' a reddish

 it when I'd got away. With what we've got on han', that gives us our church
without a dollar without a dollar of debt."
"Great Sam !" murmured Eli under Great Sam!" murmured Eli under ber in the joints that it one thevels that lim- $\begin{aligned} & \text { lim- } \\ & \text { the floor when I'm sewin'-an' I bought }\end{aligned}$
his breath. She saw him give his arm a furtive you a whole suit oo 'lothess, from head to

$\qquad$ ye manan," he said. "How on earth, ye manage to keep it clean is morern 1 can see. Ye must have to work pretty And then M'lindy Ann turned and looked up at him, with something gleaming pleasantly in her eyes. ${ }^{\text {We}}$.ve hoth worked hard, Eli," she said. We've hoth worked hard, Eli," she
after all them a pretty good place,
aroarin' streets. never been as proud of anything as I'vo goin' to be of that new church-an' us
settin' there in our new clothes awful nice of you to let me go it was city, Eli! "'-[Munsey's.

[^0]Travelling Notes.
BY ONE OF MOLLTE'S AUSTRAYou may think you know what is tion, but I venture to railway stareally know nothing about it, if you have not had to start from that at
Florence. In this country no lugFlorence. In this country no lugwhat one carries in one's hand, so everyone has to scramble for one's own goods and chattels, and place has found an one can when once one carriage, a feat requiring skill and courage. For want of a little within and without was avercthing the most hopeless confusion, equally for those who wanted to get out as train, the passages being get into the the two opposite streams of people
the py After much squeezing and consider. able grumbling, the way was cleared, and we stepped into the farst compartment, and arranged our things Journey. Presently an English laudy oined us, who proved a very pleasant travelling companion, vary
taking of our sand and we sh'aring in her tea, and fruit, and we sharing in her tea, made in very delightful and refreshing it was. She knew Rome well, and gave us some useful information.

> IN ROME AT LAST.

On arrival, there was one continuous call in Italian for porters. but we "humped our own swag"" as we say in Australia, our three large line of hotel cabmen, yelling out at the top of their voice the name of

small carriage，something like a Vic－ toria，and drovetor of Rome，and by through the streets of Rome，and by
mooplight too．As we left the sta－
tion，the broad open streets and the moonlight too．As we left the sta－
tion，the broad open streets and the
fine large new buildings，the foun－ fine large new buildings，the foun－
tains playing in the air，and the
aloetrie trains，made us think we electric trains，made us think we
were in quite a modern rather than an ancient city．A nice，kind little rival，and we were glad to be show our rooms and retire for the night
but we found we were in a ver nut we eity，much more so than ol
nondon．Our street，Babuino，on London．Our street，Babuino，on of the most important，is very nar－ strieets in Rome are．A double elec trio train line，and the houses run－
ning up five and six stories on either ning up five and six stories on either sidd seem to confine the noise，and
the cries and shouts of the people the crie and shouts of the people strikes one as most unnatural，yet
natural it seems to Rome．The jehus drive furiously，yet skilfully，for the drame furiously，yet skiften much congested，and
trat the accidents in the street are rare The shops are most fascinating，and
we fix our eyes greedily on the coral and Roman pearls．The flower stands in the piazzas are truly love ly－roses，jonquils，mignonette，ane mones，violets，carnations，freesia，
and almond blossom waft their odo for some distance－and the peasants， both boys and girls，in their pic turesque dress，are most persistent in
their efforts to adorn you with but their efforts to adorn you with but
tonholes，and thereby gain a penny A number of studios engage the peasants during the season for their models，and in certain quarters groups of these girls，during lunch and knitting on the steps of th churches，their bright dress，brow complexion，black hair，and larg dark eyes，typical of Italiam beauty，
make a charming picture．Th weather has been changeable，some days gloriously sunshiny and warm， with blue sky overhead；others very
wet，but this is natural，for Febru－ ary is the rainy month in Rome，and a few almost oppressive days，for the sirocco was blowing from across the Sahara desert，but it seems that at last we have left the cold and
damp behind．Now there is no longer any need for fires and extra rugs on one＇s bed．There is much more than one could fit comfortably ing places here to be seen in Rome， and our short stay of three weeks can only give us a very small insight into a rew of those most interesting The churches，num teps of which are always crowded with teggars，contain many beautiful works of art，but much of the beauty within．The gem of them all is St．
Peter＇s Cathedral，whose mighty ome may be seen for miles around The piazza in front is bound by a lars，which enclose an Egyptian otblis＇s of one solid piece of granite，
and two perpetual fountains，one on and two perpetual fountains，one on
either side，putting out water to a reat height．This stone－paved area makes a very imposing ap
his magnificent building． nount the marble steps and take a re more and more an ize and splendo wealth of marble，exquisite sculpture and mosaic．Adjoining the Cathe－ aral is the Vatican，or Pope＇s Palace， of 11,000 rooms，of no particular
beauty or design，parts of which are open to the public，and the Pope＇s
S wiss Guards，whose uniform was de swiss Guards，whose uniform was de waed by Michael Angelo，here keep idor，you enter the Sistine Chapel， celebrated for its fresco paintings by Michael Angelo，one wall of which alone took $h_{\text {hat }}$ eight years to paint

Because it is my name," "eskid Bronson.
stuttered.

## she nivilin

In the Shadow of the Rock．yet the strange fact remains that we

What to let thy Father do
What
Just to know
And be still，
As He leadeth；
Just to draw the moment＇s power
As it needeth
Just to trust Him，this is all
Then the day will surely be
Peaceful，whatsoe＇er befall，
Bright and blessed，calm and free．
The readers of the＂Advocate＇ have lately been asked to state their
preference for this or that column in preference for this or that column in you asked a thousand aged Chris
tians to state their preference fo any particular chapter in the New Testament most of them would de
cide in favor of the fourteenth of St ． cide in favor of the fourteenth of St．
John＇s Gospel．Perhaps they might not be able to tell why its words are like a restful lullaby to them in the weariness of old age；but probably
it is because it brings such a wel－ come message of peace．Its opening core message of peace．Its opening
words are like a strain of sweetest
music ：＂Let not your heart be music：＂Let not your heart be
troubled．＂Then the strain swells troubled．＂Then the strain swells
put in grandest melody：＂Peace I leave with you；My peace I give un to you．Let not your heart be Miller says that the word＂peace＂ is repeated more than 250 times in the Bible．It certainly seems to be fully understand the meaning of of St fully understand the meaning of．St．
Paul and Isaiah entirely agree in saying of the ungodly：＂The way of
peace they know not．＂And Isaiah repeats the solemn declaration message from Jehovah Himself： ＂There is no peace，saith the Lord， noto the wicked．＂People who care is to have a＂jolly good time，＂they may even taste something of＂＂joyey，
although a joy that does not spring from walking hand－in－hand with God can never stand against sorrow；only
a Christian really finds it possible to ＂rejoice in tribulation，＂But peace is especially our Lord＇s gift to His
disciples．He offers it to cach of but although we can hardly fail to think it a gift worth having，the fact remains that too often we struggle
through life without it．There are rough and stony places in every
path，and if we don＇t put on the sandals of peace of course we must expect to limp painfully over these
hard bits．This is a subject that
touches us． touches us all at times，and we all
have good reason to ask the ques

How shall I quiet my heart？How
shall I keep it atill？ How shall I hush its tremulous start
at tidings of good at tidings of good or ill ？
How shall I gather and hold content－ How shall gather and hold content－
ment and peace and rest，
Wrapping their sweetness，fold on fold， Wrapping their sweetness，
over my troubled breast

How shall that important question be answered？Will God indeed keep peace serene－divine？＂，Is there
t eally such a thing possible for the perfect restfulness and peace in the midst of danger，which is com－
pared by Miss Havergal to resting in pared by Miss Havergal to resting in
a strong fortress，perfectly secure， though deadly foes are raging out－
side，or resting in a lifeboat when the waves are rolling mountains high？Is there anything we need every day of our lives more than
peace？Is there anything God
offers more freely？The supply is prepared to meet every demand，and it is offered to poor as well as rich－
a priceless gift which no millionaire
can buy with his money We all want it；we may all have it，and
yet the strange fact secure it．The reason for this is not far to seek； difficulty．We don＇t trust God，and， therefore，we constantly find our－ many things．＂Peace can only rest safely on the strong rock of Trust． Those who really trust God are sure to find Him＂a strength to the
poor，a strength to the needy in his distress，a refuge from the storm，a shadow from the heat，when the blast of the terrible ones＂is as a
storm against the wall．＂Over and over again Isaiah says that God is a shadow from the heat．His pro－ phecy has been exactly fulfilled：＂A
man shall be as a hiding－place from the wind，and a covert from the tempest ：as rivers of water in a dry place，as the shadow of a great rock
in a weary land．＂What a restful in a weary land．＂What a restifu words．A traveller struggling wastes of sand stretching in every wirection，the hot blast of the desert of dust，the throat and lips are parched with burning thirst．To
such a traveller it would be like a hadow of a great rock beside a cool stream．But what a difference it would make in the comfort of his journey if he could walk always in
the cool shadow of the Rock，beside the clear waters of the river of
Peace．St．Paul says that the Peace．St．Paul says that the
Israelites in their journey through
the wilderness i＂drank of that spiritual Rock that followed them： and that Rock was Christ．＂If they could do that，how much more can
we． I know very well that it is easy to
talk about keeping the fence of Trust between to－day and the future，but it
is not so easy to keep that fence in is not so easy to keep that fence in
good repair．It requires attention every day，and many times a day，or
it will be broken down by the cares it will wo broken down by the cares find that a worry has crept through and attacked us．let us take it at work for our good－and then leave it asking Him to manage our affairs for us，and then fretting and chafling ever．，We are commanded to cast surely able to straighten out all of us，says we are of more value has numbered the very hairs of our head．He says that though a of the wonderful love which declares： ＂I have graven thee upon the so much for us，surely we may safely
lay down our burden of care，feeling lay down our burden of care，feeling
sure that everything left in His hands will turn out for the best in
the end．We may safely trust in the Rock of our salvation and say：＂I
sat down under His shadow with great delight．．．．．．．．and His ban－
ner over me was Love．＂If we only trust God fully and completely，we words are true in our case：＂They
thirsted not when He led them through the deserts；He caused the them．＂If we trust Him，every day and every hour，then we shall find
that our peace shall flow as a river

I never thought it could be thus－
Month after month to know
The river of Thy peace without
One ripple in its flow ： Without one quiver in the trust，

HOPE．

## Domestic Economy

When a teapot becomes musty from being put away damp，fill with boiling water，drop in two red hot cinders，close
the lid and let it stand a few minutes． then rinse，first with hot soda water， then with plain boiling water．To keep the teapot sweet，always dry thoroughly， then stuff in a light wisp of
that the lid will not quite close．

High collars，besides interfering with the proper pose of the head and the lines the neck，are harmful from a health point of view．The neck muscles are strained，and，incidentally，the cords of the neck and shoulders．If too high in front they impede clrculation，and are eyesight now so prevalent．Tight sot lars will often cause headache．If you abolish the high collar，the dark circle around your throat may be removed by
bathing the neck with the lather from a cathe of iodide of sulphur soap．

An artist scolds gently on the prac tice of many housekeepers to arrange a fireplace．The fireplace of a room should centralize its hospitality．Chairs and sofas may be drawn up towards it， near the chimneypiece．The arrange near the chimneypiece．The arrange－
ment of the furniture of a room ehould be from the useful and comfortable sides． window is to let in light，and the reading chair，piano and the writing－
desk belong where they will get the benefit of the necessary light．Instead， these articles are often tucked in a dark
corner，while a table with a statuette， perhaps，occupies most inappropriately
permanfent cure for bunions． Place bandage around the foot over the
bunion very tight：carry one end of bandage ve ary tight；carry one end of it out from the other toes toward the inner part of foot a little more each day．This treatment，if persisted in for
a week or two，or，if hunions are very bad，a little longer，will cure the cause of bunions，namely，enlarged joints from very comfortably in the shoe．

Does every USEFUL HINTS．
the best to use for thickening pudding sauces and light or white gravies ；also gravies，and also to use with graham corn meal instead of white flour in cakes and gems？How many know that पuarter teaspoon of turmeric mixed with
the mustard in salad dressing malkes much mustand in solad dressing makes colored dressing？How many use a short stiff brush for cleaning
vegetables？Once tried you would never do without．
apríe filling
A delicious filling for layer－cake will be core four large apples；grate them fin on a clean horse－radish grater．Add to them the juice of a lemon and the grated taste of half the lemon．Sweeten to
taste（do not make it too sweet），and place between the layers of the cake， which should be a plain sugar cake，
flavored with vanilla and baked in three flavored with vanilla and baked in three
layers．Spread an icing on the top，
made with the made with the juice of half a lemon and
suffcient sugar to make an icing which

## cup custards

Four eggs beaten with half a cup this into one quart of hot milk，and inte in a sprinkling of nutmeg．Pour moderate oven．A teaspoon of vanille may be used to flavor，if desired．To
test if they are done，run the blade of a knife to bottom of cup；if it comes out clean they are done．Custards are so should be much more used in the farmery family than they are

## Th

號
most
Gold

\(\underset{\substack{down<br>hands}}{\substack{bot<br>hen}}\)

from stick
as light

The Story of Caliph Stork. [An Od German Fairy Tale Translated by CHAPTER
When the storks in their corner heard
this they wer almost beside themselves
with to with joy. They ran with their lomg loges log
so swifty to the gate of the castle that the owl
them.
them.
There the Caliph, with deep emotion,
said to her : " Deliverer of my said to her : ". Deliverer of my lifie and
my frrend's lifo, in eternal gratitude and What you have done for us, I ofier myself to be your husband.
Then he turned to
times the storks inclined their long necks towards the sun, usise rising benind necks the
mountains. mountains. Nutabor, they cried. In
a flash, they were changed, and in the a fiesh, they wore changed, and in the
delight of new-lound
life, master and servant, laughing and weeping, lay in each others arms.
But who
But who can describe their amazement
when they turned round. when they turred round. A beautiful
ledy, sylendidyl dressed stoo b before
them. Sinking, she gave her here them. Sinking, she gave her hand to
the Calliph. . Don't you recognize your the Caliph. "Don't "you recognize you
night-ow $1 ?$ ", said she. pight-owl ?
The Caliph was so so
beauty and grace that he cried out. .in has been my greatest good fortune to "to
have been a stori." have been a stork
The three now
The three now fourneyed together to
Bagadad. The Caliph found in his gar Pendad. Whe Caliph found in his gar
ments not only the box with the magic powder, but also his purse. He, there
fore, bought in the nearest village what fore, bought in the nearest village what
they needed for their journey, and so they needed for their journey, and so
they soon arrived at the gates of Bagdad
There the appearance of the Caliph ex-
cited great ampement
 greatly in the restoration of their be oved ruler. All the more their hatred blazed against the imposter, Mizra. They entered the palace and captured the old
magicien and his son. The former was hanged in the chamber of the ruined castie where the princess had lived as an owl. But the son, who knew nothing of the arts of his rather, had the choice to the latter, and the Grand Vizier presented
the mand him the box. A good pinch, and the
magic word of the Caliph changed him finto a stork. The Caliph had him shut
 with his wife the princess. His happiest hours were always when his Grand vizie
visited him in the aftern otten talked of their adventure as storks, and when the Caliph was in a specially
good humor, he would condescend to imitate the Grand Vizier in his appear ap and down the room clattered alike his arms like wings, and showed, how the
Vizier had vainly bowed towards the east, shouting, Nu-, Nu-.
For Madam this was alwais a and great delight children but
sometimes when the Caliph clatetered and bowed, and cried Nuph clatered and
long, the Vizier would Iong, the Vizier would smile and threaten
to tell Madiame Caliph their conversation outside the door of the princess night-
(The end.).
owl.

## In House-cleaning Time.

 Sumper the stoves are put away for thesubmer, clean off any urast tatinin by rubing the nickel and steel with linseed two rub the places with a cloth dipped
in ammonia

Feather pillows need washing now and then, if used constantly, for they now and
late dust and dirt. Choose a bright, suny day for the work, and a bright,
breeze helps then to a large tub half full of water that is all $\underset{\text { most boiling hot, and dissolve enough }}{\text { Gold Dust washing }}$ a good wadshing powder in it o make
in at a nut oume or two pillows move them about, pushing them up and
down, and and and down, and rubbing them them up and
hands until they are ctean the 1s not enough, use two, rinse in water
water, wring



## 

Clarissa's Strawberry Short cake.

Don't go out of sight, Clarissa; Sam
Sharp's to bring back the churn and the
 to tea, and notry. Company's coming
the housd n a crumb of tresh cake in
 sentence Clarissa, left ther that abe meant. Martha's half-spoken wish. For awhile
sho stood irresolute, then turned to go
indoors indoors.
I call
I wo it,", she said. "I'm sure Enveloping herself in a big apron and
-oling back her sloeves up the \&ire. Aunt Martha'a first thought was always to look to her oven.
Then she stepped from kitchen to panThen she stepped from kitchen to pan-
try, and from pantry to kitchen, feeling
very
important
and studied carefully one of the
writen plociphes written plainly out in Miss Howe's cook-
book, sititing and beating, stirring and mixing in the most cacting, stir manning and With the baking came a reaction. If would shauldn't ever out good, Aunt Martha
Popprove of such a waste Presently she started at hearing a voice Who halloa, Rissa, what you cooking? Who have you got a grude against
"Tom Howe I" she said tunning "You're treading a floury path this
morring, Rissa. It's even on the point
of your . . Yver boen making strawberry short Perry's daunghter's home tor the "Mrs they sent word to Aunt Martha to come over to dinner. The minister and his
wite are coming here to-night Aunt Martha's hexpecting to bake cake
when she geto When she gets home.
l. Wont she be surprised?
.. Pothe
Rather, if - "
I hope there isn any if.
Your berries hullete?",
" No ; nor picked."
${ }^{\text {Tom whistled. }}$ "The Re passa all over. "The patch's beyond the next pasture,
and I couldn't go so far till Sam Suar
brin hrings bome the churn. I'll run over by
and bye., "I'1l look out for Sam. It may me on the way to the butacksmith's and and
may be back so may be back soon. II I I blow the horn
you hurry home., "But the baking-it's the most im$\underset{\substack{\text { Bless, } \\ \text { mother's., }}}{\text { you, I've often watched }}$ Clarissa concluded to take Tom's ad-
vice. Though the sun was shining brightly now, there were heavy banks of
ciouds in the wetare Clouds in the western sky.
is sam's money's on the mantel in the "Sam's money's on the mantel in the
other room," she said ; and taling her
sunhomot sunbonnet and basket started off. The
pesture was wide and sunny: Clarise's feet moved slowly, and when the berry
fend and and patch was reached it was hot work bending over the vines with the sun beating
full on her.
More othan onco Clarissa looked longingly at the woods below at
the edge of the field the edge of the field. She would go go
down there where it was cool and shady down there where it was cool and shady
to hull her berries. She was too warm
and tired to stan and tired to start home. Tom wouldrn't
mind staying alone that mind staying alone that much longer.
As soon as her basket was full
 trunk, the light breeze lifting the curls
on her foreheand and tand on her forehead and fanning her fushed
cheeks, Clarissa for onco enioyed hullion strawberries. Clarisa for once enjoyed hulling
She kept a listening oat Prawbertes. She kept a listening ear
Clar the last bery hulled,
Clarisea walked slowly homewards. Be
$\qquad$
got there.
On the kitchen table lay three tempting
 oclock when Clarissa, from her post of observation on the front horse block,
saw Dobhin ambling leisurely up the
dusty road

The threatened shower had passed over, Dut Clarissa was glad the berries were
picked, else the cake couldn't have been sitting now on the pantry shelf walting "Anyone here, Clarissa?", Miss Howe asked as Dobbin turned into the yard.
"Tom and Sam's seon." ing thill Zeph, then get me out the bak-
down tart the fire.
dill
Ill be Whewn directly," Miss Howe came down she looked impatiently at the empty kitchen table.
I told you to fetch out the thing she said, "and there you stand inde."
She whisked She whisked into the pantry ; Clarissa
waited for what would waite for what would follow. There
was
Woment's silence Mars a moment's silence, then Aunt
Marth returned carrying the straw-
berry shortcaled ${ }^{\text {berrry }}$ That shatcake. .
 "Grandma didn't send it, Aunt Mar"Then who did? There's some good the Howe mere, but that cake bears
stamped so.," stamped so." "No
"No one it, Aunt Martha." Aur Marthan it, Aunt Martha,"
Claricased the exultation in

Yes, I did, Aunt Mavrtha. All my-
self, and the first time."

It had been a sore trial to Aunt Mar aptitude for cooking, and now clacriae was turning cout a $a$., true Howe " and after When all was ready, the company boing
entertained by Aunt, Martha in the parlor, Clarissa Aun Martha in the cool for a last admir-
ing surver on ing survey of the table
TTo her the white china tea set, with its
green and violet green and violet sprigs; the polished
silver, and shining glass ; the de damely roses, in the conter, their scont mampan
with the the shing with the sweet odor of the new-mown
grass in the fields outside ; all the dainty grass in the fields outside; all the dainty
touches but served to set of her caiky Louches but served to set of her cake.
At last the time came for the calke to be passed. And then Dotor He Haralye woid
he would really like a second prece. It was certainly delicious cake. ${ }^{\text {" }}$ Delicious,", everyone knew what Miss Howe's cake
was.
Was. Aunt Martha said Clarissa had made this. Doctor Hardy turned to the
blushing Clarissa "You'll be as famous housekeeper some U.' thought Clarissa wasn't given to
such things. such things, How many mixings did You spoint", Clarissa answered.
". Tone,
 when their guests were gone. "She'd be right proud of it. Suppose we go
over to-morrow., over to-morrow." "
Clarissa was awa be bright and and the next morning. Aunt Martha wayal ready stepping about downtairr." Clart
issa sprang out of bed and Window. It was goling to be a beauti
ful ful day. She grosged hurriedly, her her
mind full of the resed
herd mind $\begin{aligned} & \text { Prese of the day's pleasure before } \\ & \text { her } \\ & \text { Arsently Aurt Martha called : }\end{aligned}$

She Clarissa answered time. In the kitchen stairs toorway at three layers of cake, yellow and wer an utter waste of good material. "Clarissa," Miss Howe said, "' by the out back of the wood-pile and morning me you had only made onite and youre." tola
in I didn't make but one," "larisea an $\substack{\text { swered. } \\ \text { miss } \\ \text { Howe looked at her in amazement; }}$ evidently Clarissa was determined to brave it out. Dink I made them?" she
asked you " Chank
 leos your thll me the terday. Listh about : Un-
fore brealkast fore breakfast is over I shall go to
mother's alone. You deserve to be left
at home anyway, tolling such a falase
hood, but I will give you that chancoa." Mass Howe commenced to got broak-
fast, and Clarissa went slowly out to foed her chickens.
"What would grandma think when
Martha told her and Tom ? " Clarien forced back a sob. She wouldn'te ary. It was to have been such a louvely day. Breakfos

## morning.


Well, Clarissa, have jour
" Noo, Aunt Martha. I told yon I
"Then It. What eles can I. asy?" Mother will foel terribly". Lom The hall clock was stin Aunt Martha wrove away, when Corly nine standing, on the bockle etbope
0 clock, and Aunt
 herselh on the ground, not trying longel birdso were singing joyously. She the the
the sote the soft, busy hum of the bene allturng
among Mise How's old-fashloned garde Aowers. The air was full of sumeit Junf out in the orchard while Aunt harth was driving slowly along through
pleasant country roadis; but, if oirait had only known it, foeling gutte os un
 Martha, too, the summer doy had loot te charms. By and byy Claribea arome fields to the woods. sitting on the log where she had hulled her berries, the yesterday morning. yesterday morning;
I wish I hadn":
said. "I wish - -" made any oake," the
Through the still alr sounded a whitle, shrill and clear-Tom's whitole. In,
 while Tom, on the wagon soet, we, maling a trumpet of his hand.
"Hurry," he thouted, and clarisese cime in sigl
mons
ons
him.
det
an said when she reached
". Dld Aunt Martha send you p" panted
"I'll answer, questions later, "Risea. $\stackrel{\text { come on n n }}{\text { " But-" }}$

There isn't any but
Then just give me time to ohange $m y$
Clarises hurried up to her room, where on a chair lay her troen plink oambrio
put there the night beforo joyful anticipations.
In a short timo a very different ciarissa appparred. A laughing, bright side him she gave a Hetioe apring of doe
and light. She was to have her day after
"What made Aunt Martha chango ber "Hasn't."." Tom chuckled at the Tuwit dismay in Clarisose's blue ejer.
"Not a atop. she's You truat to me, "Rlima." ", chango was fain to do so. still, when they reached the long avenue of maplee loeding up to the houve, she asked anstious. "، You'ree sure, Tom?
"Sure," He drove in ine atylo flourish before an astonished group on the
Clarise, ", grandma. sald, coming the high seat. crandma, but Tom savit not to be here, "Bo that's whera Tom," his mother said, while Aunt More tha eyed sternly thls nophew who had
dared to take the law into hio own hands.
Tom
Tom
Aunt Martha, Clarisase : did toll the
th about her calke Hors was the heoury ono : I maid calko. Hers was the There was a chorus of exelametiona Clarisea gave a littlo aigh. "So that wasn't my calke", "Tom's turning out a perteot genlue at
cooking:" his mother sald. "ITd. rather hanvo hie haip than a dooen giris,", pase of your work as hers,", Mies How pase of your
Clarisae didn't know it." Tom ex Platinest kow heo hat beon ieft to mater


 suprise you with, so I Mustiod aroind


 moes over but hhen so same this morry
 her.: ${ }_{\text {Im }}$ gilad you did,", Mise Howe sald herme glad your did,", Miso Hows sald appoened, but appoerancose wero againa
 soteremay, you woiti Hil, oven to got Yournil out ot troublo.
 Int ith ben protty hard on you, doar,



 Oloese to grandma. "Can you ?" bh cated

Humorous.
"What is bread chlefy uesd tor, Tom. "' To spread butter onin" was the logical but unexpected roply.
First omahan-The doctor mays my
 Esood one. Yout can have a milks-shakd henever you wibh.
". Papa,", gatd the fair girl, with a
 titaod, him as he left the house last
fight.,
 .. Diche"." sidid his mother, ". when your sister, did you give her throe t? ". No, even, zo ato ono yoro 1 began to di


INeIENOOK CHATS

Dear Friends,-Now that the warm for yourselves. Never were true weather is coming on apace, I think words spoken
it would be a grand thing for each of us to make up her mind to see and appreciate more this summer than ever we did in our lives before. You know there are people in this world who go th ough life without really seeing very much, or apprecialing very many of the wonderful variety of things which fill this grand old earth upon which we have been placed for a while. I think these people miss a very great deal, don't you? It is something to notice the and color; it is something to see eaity in the little shadows dappling the "bush road," when the sun
shines through the trees, or in the waves of light and shade that chase ne another over the hay lands or grain fields. It is something to be
able to recognize the different flowers along the brooks, over the prairies, friends, to be able to name this one or that, and to tell the peculiarities which mark, out one as different from another. All these things add
interest to life, and help to develop in us those " extra eyes " which Burroughs so loves to talk about. And, really, I don't think the half of us
realize how blind we are. We just jog along, day after day, We jussing thousands of things all about us, which are sources of endless interest and wonder to others.
Not long ago I had the privilege of hearing a very dear old privilege of give a talk on "moths." I had
never dreamed before that there could be so much to learn about the little creatures. He showed us pos-
sibly 300 or 400 specimens, and as he described them we could but sit like Goldsmith's ruitics, in mute wonder, "that one small head could
carry all he knew." The particular ly large and handsome specimen he exhibited with especial pride; also the big cocoon from which it had emerged. This cocoon he had no-
ticed upon some lilac bushes, close to the sidewalk, one Sunday when
going to church, and had determined to secure it. For several weeks,
however, he forgot about it, then however, he forgot about it, then
fearing lest someone else had captured the prize, he went to the lilac
bushes. The cocoon was there still. not one of the thousands of people
who had passed along that cit who had passed along that city
street having noticed it, save this one old gentleman, whose, sight had
been keener than theirs. Burroughs says, "If you want to find the bird in the bush you inust have him in
your heart," and I suppose this was your heart," and I suppose this was
partly the secret of the discovery. I think it is well to have some such
hobby or hobbies as this. We may hobby or hobbies as this. We may
not all care about th. same things, but there are very same things, "birds." Our "bird", may be the study of rocks, soils, plants, animals, music, art, or literature ; little mat-
ter which, provided we are ter which, provided we are ge uinely
interested in it, and it provides for us a side-line out of the ordinary routine of our lives. I have noticed are enthusiasts even to such hobbies are enthusiasts even to old age, and
that in the evening of life, when all the children are married and pone and the waters are very still just in-
side the bar, life still bears for them the perpetual interest and worder of in regard to this "seeing " of things. I will give it you in the
words of Elizabeth Barrett Browning and le in Brown
" Earth's crammed with heaven,
And every common bush afire with Go But only he who sees takes off his shoes.
May we of the Ingle Circle all be Mumbered with those who "see",
DAME DURDEN

## Farmer's Advocate" office, Lo

don, Ont.
I am so glad that Mrs. A. S. has
come to us again-the Mrs. A. S.
who wrote to us last summer about who wrote to us last summer about slips she used to help keep the little tots clean-you remember, do you
not? Sorrow has come to her since then, and I am sure the sympathy o
our Circle will go out to her. our Circle will go out to her. He
"Sensitive Plant", tells the story such things should be, especially first when the wound is freshest, and when one can only look, forward to
the " eventide," when " it shall be ". In Memoriam," Mrs. A S. S ? ? that beautiful poem written at the time or his trouble. Here are a fe am sure you will feel the hand-gras in them

$$
\begin{aligned}
& \text { I hold it true whate'er befall, } \\
& \text { I feel it when I sorrow most- } \\
& \text { 'Tis better to have loved and lost } \\
& \text { Than never to have have loved at }
\end{aligned}
$$ Than never to have have loved at a

My own dim life should teach me this Tlse earth is darkness at the core
End And dust and ashes all th
Nor blame I Death because he ba
The use of virtue out of earth:
I know transplanted human worth
Will bloom to profit otherwhere
And doubtless unto thee is given
A life that bears immortal fruit In those great offlces that suit
The full-grown energies of heave

Behold, we know not anything
I can but trust that good shall
At last-far off-at


## The SENSITIVE PLANT.

## alwe Lord of our vineyard, who ha knows that so kind to us, and whe often professed our ai

## little sensitive plant that we might reat

## ap for Him. It was a slip of th

## in its material, frall in its texture, ye

## In appearance. There was nothing r



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save their cost in
twelle manthno and
produce more butter produce more buther
proth oightcows than
is prou uced
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 \%iwas. $\stackrel{\text { FOR }}{\text { BOOKLET. }}$
Delachable Bo Bovl Cosing
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$1 / 2$ of greatness
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that in its present situation, it will
more
milorous in more vigorous in its growth, and more
beautiful in its appearance: that its stalk
will not be broken will not be broken by bee: that its stalal
nor its tender shoots scorched wind
not nor its tender shotots scorcherce wy the the
burning sun, or , nipped by the pinchion burning sun, or nipped by thed pinching
frost; that its blossoms will never be frost; that its blosoms will nevering
a prey to the rede
to the tompest.
All this we know, and He has sent us
His word that what we know not now His word that what we know not now.
we shall know hereafter. DESIRE-TO-HELP Formerly known as Mrs. A. S about the badge.
Dear Dume Durden,-We have had the Advocate" nearly, a year in our home y the Ingle Nook Chats. I Certainly
hink a badge would be very nice wear to represent the Ingle Nook.
think the nice to think that same ribbon, yellow and
black, would be very nice, with four streamers, and a little rosette fastened in
the top. I have only seen but one an nouncement about the badge, so
thought I would send in my liking. Wetaskiwin, Alta. E. D. ANDERSON

FROM " DON'T SIGH" HOUSE-
Dear Dame Durden,--In reply - to Mrs.
J. E., I
I will
send the American recipe. I Iam sure she will find it very
handy at this busy season, when we are handy at this busy season, when we are
all so busy housecleaning. I thought of giving a few hints on housecleaning. We and do it thoroughly, have done so for
years, and find it very help years, and find it very helpful, especially
when any of our friends drop in pectedly. It is niee to have the restexthe house in order. My floors, I paint with borders, any colors which wil
blend nicely. I think they improve room very much. We stop our cleaning so as to be dressed up cheare the
children get from school, and prepare nice hot dinner for six o'clock, and then
are not too tired to spend a pleasan evening with our famtly.
American yeast.--Peel and sleasan quarts of potatoes; boil soft; put through cup flour, three quarts of water. your yeast milk-warm ; then add two cakes of Royal yeast cake, previously
blended in warm water; set in a crock
covered warmly, and stir occasion a couple of hours. Next day ally for make your first batch of bread. This four loaves. Feast makes about twentylour loaves. For a baking of eight
loaves, take one and a half quarts yeast and same amount of water; make
milk-warm ; add salt; have your flour horoughly warm; mix stiff; then knead for nearly two hours, them knead warmly and one and a halt hours put in the pans,
and in one and half hours bake from one to one and a quater hours.
reast of your one
Cover the Cellar for your yother batches. ${ }^{\text {and }}$ Be sure
and keep the bread Raspberry Cake.-Two eggs; hall cup sugar; one cup preserved raspberries;
half cup butter; two tablespoons buttermilk; one teaspoon soda; two cups flour. Beat all together thoroughly. Bake in a
moderate moderate oven, and ice as desired.
Buns.-When you are bread, reserve a piece the size of a
loaf; add half a cup sugar, and one egy Mix well; let stand two hours; then form
into little loaves the rise three hours in warm place; bake
and youl will and you will have warm place; bake,
buns hot for tea. DOing UP Lace curtains. Miss Einma Schenk writes, asking Wash your curtains curtains. ${ }^{\text {Weparately from }}$
other things handling them, so that you may no tear the lace. If yellowed at all, a the boiler will help to whiten them
linse well Rinse well and helue, testing the blue that putting in the curtains to see looks worse than curtains that ar too blue. Have a thin boiled starch made : immerse your curtains in it it
quickly, and press out. Do not
 cuin frames, you, may stretch your eve lace spread out smoothly and in place. If you haie no curtain frames, spread clean white sho curtain he floor in some unused room, pinning them to the carpet if there is curtains vow spread and stretch your sheets, pinning them all round these pulling all the points out carefully and gently into place. Now close up dust blowing in, and leave possibility of tains to dry. In, If you have any old worn ones, you might try this plan with them. Mend the holes with before starching mix in with your boiled starching mix in with your make the curtains a pretty old gold
shade. Now you may not think
these would to shade. Now you may not think
these would be a bit pretty when
reading about reading about them; the name "yelwith "lace curtains,"" do go well
Nevertheless it ? Nevertheless, I can assure you that
curtains which I have seen atter this curtains which I have seen after this
treatment looked very pretty indeed especially in bedrooms in which the color scheme was yellow and white.
Besides, in these you never scem to see the curtains you never scem to see the mends at

THAT JUNE WEDDING As the matter was already a
ranged for this numiber bofore nest Reader's" letter arrived it Ear been found impossible to answer her question regarding the "June Wedhelp "Earnest Reader ", st in try to issue, however, and hope that what hints we may give will not be too
late.
DAME DURDEN.

## Oiled with Cheerfulness.

 Whant the sailors heave the anchor, they keep time. When a regiment marches to battle, the band plays martial airs tostimulate and strangthen them the machinery strangthen them. When smoothly and withoutly occupation runs
must be well oiled wition, the wheels must be well oiled with cheerfulness. - the man who sings at his work his occupation what it may, he is equal Be to any of those who follow the game
pursuit in silent sullennes. pursuit in silent sullenness. He will do
more in the same time-he will do it betber-he will pame time-he will do it drous is the strength of cheerfulness ; antogether past calculation is its power of The dull d
dreary burden grows light with and the ing of cheerfulness.-[East and West.

Solid Scholarship. At a political meeting an excited Irish-
man had risen to yell ". Sit down ton to yell his satisfaction. him, twitching his coat tails.." "Don't you know you're opaque ?" " And that
$I^{\prime} m$ not !" cried the other, "I'm O'Brien." V C. tell a story of Professor Huxley, which suggests that he may have heard
of the Irishman. The professor had made a demonstration, and asked a "You follow me?"'
" Yes, sir," he replied
Yes, sir," he replied, "except at one
point, when you were between me and the
blackboard." " Well," said the professor, " I always try to be clear, but I can't make myself transparent."-[East and West.

THE WOUNDS OF A FRIEND. The small boy who wrote the following tude that he did not notice just what his ceived : " Dear Uncle Thad," received the knife you sent me; it is
just beautiful. I cut myself with it five times since I got it. I thank
and ever so much for the knife.
". Y so

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## 

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did not eat this fruit; but during the past winter they were often seen pulling
at the bunches, and, doubtless, eating ath berries. Probably on account of the
continuous snow, food was found to The plants attain a height of eignt o ten feet, and keep 'their branches well
above the snow line. In the shrubbery above the snow line. In the shrubbery, it makes an effective background, and is
interesting both in flower and fruit ; the lormer being often adjudged as mon

The other day there was sent to us But I must stop, in order to make from a United States iirm, a beau-
tifully illustrated catalogue of hardy ferns and flowers. Upon looking it over, we were struck with the great
number of "wild "flowers and ferns number of "wild "flowers and ferns
advertised. In fact, the firm in question makes a specialty of selling "wild flower" seeds and roots. The
thought was suggested, why is it, when town and city people are will
ing to buy such roots, at price ing to buy such roots, at prices
ranging from $\$ 1.00$ to $\$ 1.50$ per dozen, that so few people on farms ever think of goin : to the woods and bringing a few home for the garden these "shy, retiring "" beauties, as Burroughs loves to call them?
think not; who is there who does not love our native flowers? Is the people the possibility of growing them in garden has never presented itself? We have looked upon them as "woodsy "" things, that will grow
in the "untamed wilderness" or not in the "untamed wilderness" or not
at all. That this idea is a fallacy however, has been proved by many who have tried the experiment, and
indeed, when one really thinks about indeed, when one really thinks about
it, does it not stand to reason that these plants, indigenous to our country, should flourish in it, with a very little supplying of the necessary im-
mediate conditions, quite mediate conditions, quite as well as
those more foreign specimens with those more foreign specimens with we are so fond of filling our
which win gardens?
If you have trees in your garden,
about which the soil has become about which the soil has become at
all " muckv," thre to perfection will grow the hepaticas, those dainty lit tle white and bluish tinted flowers, you know, that come out early in
spring; dicentra (Dutchman's breecheE), bishop's cap, trilliums (the socalled white and red "lilies" of the woods), the golden dog's-tooth violet (known sometimes as an spotted-
leaved "adder's tongue "), Indian turnin, white snakeroot, bush ferns of various kinds : in fact, one and all
and the application


Viburnum Opulus and Sterilis.
situations in the woods. A more ex-perosene emulsion before the " balls posed situation will suit the scarlet have attained full size. If not attended
columbine, which will flourish almost to in time, they wither before openin anywhere, and a damp corner will do into bloom. In England, this shrub is
finely for the mauve and purple ky the name of Guilder rose finely for the mauve and purple known by the name of Guilder rose, and
asters that grow along the edges of the frst plant was brought from Holasters that grow along the edges of the frst plant was brought from Hol-
swamps, boneset, feathery meadow land.
 and such flowers. I have seen wild bush cranberry. It is both ornamental
bittersweet climbing luxuriantly up and a
veranda posts ; also the wild clema- and useful, bearing cymes of minute veranda posts; also the wild clema- white flowers, surnounded hy a row of
tis, beautiful even after the blossoms iarge sterile blossoms. The flower a go, with its tuits of the blossoms iarge sterile blossoms. The flowers are
Eben Rexford abells of abortive, but beautiful, and the foliace
Eblump of abole Eben Rexford tells of a clump of abortive, but beautiful, and the foliage
golden-rod which, mains clean and abundant all the golden-rod which, under cultivation
in his gardenson on cultivated and well-cared-for
in the a remarkable plants. size, becoming an oliect of such $\begin{aligned} & \text { The fertile flowers result in dark red } \\ & \text { striking beauty as to be admired of beries that glow with color, and grow in } \\ & \text { all beholders. Then what can be large clumps of healthy-looking shrubs }\end{aligned}$
all prettier than the cone-fower, the Their fruit, if gathered, makes a phiquant
"Brown-eyed Susans " of the hay- jelly, that is much esteemed to be eaten

## Vegetables for the Farmer's Table.

> By Kathleen Merivale Darrel.

The first warm days of spring usually bring with them at least a slight loss of appetite, and a longing for something a ittle different from what one has been ating all winter. If those who cannot ford to buy hothouse vegetables will try the following recipes for preparing inter vegetables, hiey wil, perhaps, no and it so trying to have to wait a while onger for the fresh garden produce:
Potato Puff.-Heat two mashed potatoes, and halt a cup of milk or potaloes, and hall a cup of milk and celery, salt: beat two egge, parncy nd celery, sall, beat two eggs, and stir baking-dish; sprinkle with grated chered and bake twenty minutes. Potato Pie.-Place alternate layers of mashed potatoes and thin slices of beef in a bake-dish, having a layer of potatoes, dotted with butter, on top ; sprinkle each layer with salt and pepper, and pour a powder, over the meat ; care must be taken not to use too much or the pie will be too moist ; bake slowly for thirty minutes.
Escalloped Potatoes.-Fill a bakingdish with alternate layers of onions and potatoes, thinly sliced; sprinkle salt and pepper over each layer; partly fill the dish with milk, and dot bits of butter over the top. If raw potatoes are used, twenty to thirty minutes.
Saratoga Potetoes.-Peel raw potatoes, and cut them in lengthwise strips, half an inch thick; dry between clean cloths,
and fry a few at a time in deep, boiling fat; lift with a skimmer; sprinkle with salt ; drain, and serve very hot.
Baked Cabbage.-Boll a small cabbage Raked Cabbage--Boll a small cabbage
with a slice of bacon until done ; chop
finely, and mix with the with a slice of bacon until done; chop
finely, and mix with the following:
Three eggs (well beaten), one and a halt Three eggs (well beaten), one and a half
cups sweet milk, half a cup of boiled rice or macaroni, two tablespoons of
butter of mustard, and salt, pepper
sume teaspoon summer savory to suit the tasto. Turn
into a buttered dish into a buttered dish, and cover with
bread crumbs, and bits of butter; bakee
three-quarters three-quarters of an hour. $\begin{gathered}\text { Grated } \\ \text { cheese alternated with layers of this } \\ \text { mixture will resut }\end{gathered}$ dish.
Stuffed Onions - Peel
 scoop out the center of each onion,
taking care to leave rather thick walls about the cavity. Chop the onion taken out, with a little cold meat and
bread crumbs : mix into it a litule bread crumbs ; mix into it a little butter,
and season with pepper and salt. and season with pepper and salt. Fill
the onions with this mixture ; place in a deep dish, pour a little meat stock about Fried Onions.-Slice thinly, and soak in milk for a few minutes ; dip in flour, and Diced Carrots.-Cut in half-inch dic as many carrots as are needed- boill till
tender, and drain. Mele as follows: Rub together one tablespoon of butter and two of flour ; add one pint intil thickened weas hot milk, and stip until thickened ; season with salt, pepper,
and a dash of vinegar, and pour over the carrots. Parsnips, turnips and potatoe are all delicious, served soparately in
this sauce, and the yellow and this sauce, and the yellow and white
carrots and parsnips or carrots and parsnips or potatoes and
lurnips makes a pleasing distater turnips makes a pleasing dish. For po-
tatoes, the sauce may be flavored with tatoes, the sauce may be flavored with
chopped onions, celery seed, lemon juice

Advertisements will-be inserted under thi
heading, suoh as Farm Propertiles, Helplp and Tising TMS-Three conts per word each inser
Tlim. Each initial counts for one word and fion. Kach initial counts for one word and
figuros for two wris. Namoes and addresses
reo counted. Cash must always accompayy are counted. Cash must always acompany
the order. No advertisement inserted for lese
than 50 cents

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the future. He does not wait until his grain is ripe before purchasing his hinder twine. He studie the merits of
each brand, reads the advertisemen each brand, reads the advertisements of Plymouth Cordage Co. makes as theod wine as can be found anywhere for the the
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particnlars, Write for our CATALOGUE. It tells all about the ADVANTAGHES OF
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THE SPRAMOTOR WILL DO
THIS AND OTHER THIIIGS TOO.
fitmerro Nervo ITHE FRENOH NERVE TOMIO.



The famous Shorthorn bull, Marengo (69068), property of Mr. Philo L. Mills, Ruddington Hall, Nottingham, England, has had to be slaughtered, owing to a 6th, 1895, bred by Mr. Wm. Deb Collynie, Aberdeenshire His. Duthie Collynie, Aberdeenshire. His sire was
Scottish Archer, and his dam, Misele
118 th , was 118th, was a daughter of William of Orange. Marengo was a grand specimen
of a Shorthorn bull, and proved a and propotent sire. He proved a prohific
and was a very suc-

two-year-old and a three-year-old, he won
24 prizes at leading English shows, in-
cluding the champlo cludipg the championship at the Royal,
at Birmingham, in 1898.

That the fall wheat crop in not a learned from the statement of the Brampton Banner and Times, that in the
northern Parts of Peel County. the
prospeots pre sor then northern, parts of Peel County, the
prospocts are for the beet crop in, years,
the wheat having wintered saloly, and the wheat having wintered sop in yearsely, and
the growth beling remarliable.
At a dispersal sale, on May 11th, of
the herd of Jersey cattlo belongling to the herd of Jersay cattlo bolongling of Buck, England, the a2 hend sold mach,
an average price of $\$ 110$ molh. The
ane an average price of $\$ 110$ onch. The
best price, sa20, was paid for the oow,
Majorica, by Mrre. Watson Kennedy. Mejorica, by Mres. Wation Kennoty. He
Mejeesty the King became the poen Madeifre 6th and Lady Pogle, ot 30 guineas and, 83 guineas, reppetivelf.
Thirty-one guineas wat the higheit prici
paid for e buil.

At the annual sale under the ausplee of the Territorial Pure-bred Oattlo
Breeders' Assoolation, held in Oulger on May 11th and 12th, 125 sion Oulgary on were sold at an ajerage of \$105, and 54 females at an average of of 85, and 54
Hereford bulis
76 Hereford bulis averaged $\$ 127.50$, and the s91. The ranchers do not want 6 , b
leas tpan elghteen months old. and stioutchbe well grown, and mued be tro
enough to ruitlo with the herd and hol
his his own to ruatie with the herd and holad The large number of yeartinge oflered by the lower averago accounte, in part, for
Herofords. As an indance of thi, with breeder offered four instance of this, one Hero, calves of, excelliont quality. toom
twelve to fourteen months old. weive told at prices manging from. They $855^{\text {to }}$
s70. Immedintely after breeder Immediately afterwards, the samio
 big-framed, strong-boned aattlo; thees
sold readily at prices rangling from $\$ 125$
to $\$ 185$. to $\$ 185$.
Bishop Potter was preaching ono Sury Adirondackg, In a amall town in the camp. When the services were overer tall, gaunt man, with the dif of a beclo Woodeman, came up to the Bishop with
outatretched hand. Li've heerd ye I alluz learn and If like yer ireenelore I alluz learn somethin now from ye.; I rici ten mile to-night to fiear ye, fer as utsual, I heord thin' new to-night that I nover knomed
afore." "Well, I am glad of that," sald the and what was it you leatred on hand; "Why, Bishop, If Iound out for the
fust time in my Hife that Sodom. and
Gomoorah wisn


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| Smotat the | Pure Bl |
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| so | Kidney-Liver Pills. |






 of Grey, by Brownell, of the Crimson
Flower sort, hy Imp. Fremier Earl The
Minas are by Abootsford and Earl Buckingham, of another excellent Cruickshank
family, and the family, and the other members in Mr.
McGugan's offering are equally well hed McGugan's offering are equally well bred,
making altogether a very valuable con-
tribution to this making altogether a very valuable con-
tribution to this aittractive sale, which
everything indicates will be the most im everything indicates will be the most im-
portant sale of the year in this country. The British Royal Commission on tu
berculosis, now at work, intends to pursue its investigations to conclusive re
sults. sults. The questions the Commission is
seeking to decide once and for all are seeking to decide once and for all are
(1) whether human tuberculosis and bo-
vine tuberculosis vine tuberculosis ares the sames, and bo- (2)
whether they are inter-communicable, whether they are inter-communicable,
and if so, how far ?
Similar investigations out officially in Germany and in the
United States, Out offcially in Germany and in the
United States, and unofficially in some
other countries, and varying results have other countries, and varying results have
heen arrived at. The British Commis-
sion, while giving heen arrived at. The British Commis
sion, while giving due weight to these in-
quiries, has not allowed them to affect
its experiments one way or the other.
The Commission has taken The Commission has taken nothing for
granted, and accepts nothing as proved
which the present experiments place beyond all possible doubt. At the
farms where the exper farms where the experiments are taking
place the Commission has at its place the Commission has at its command
in a magnificent laboratory every appliance
known to science known to science which can aid in in solving
one of the most important problems for
mankind mankind generally,
For obvious reasons the experiments
nust take a long time to For obvious reasons the experiments
inust take a long time to complete. The
Commission must prove by other
means than direct inoculation of a humeans than direct inoculation of a other hu-
man being whether bovine tuberculosis
can be transmitted to man, and every one of many stansed to man, and every
periments. Again, in the inumeculation of of are always sure to the year the kidney
ranged. ranged.
The work of filtering from the blood the
poisonous impuritier poisonous impurities which result from
the artificial winter Ilff is too much for
them, and spring finds the with waste matter and the kidneys in
sluggish sluggish and clogged condition.
The effects are tire system. The liver, in sympathy wit
the kidneys, becomes slow action, the bowels are constipated and
digestion digestion is impaired, giving rise to
headaches, dizzy spells and feelings comfort.
The quickest and most satisfoctor
of setting the kidneys right is the use Dr. Chase's Kidney-Liver Pills.

- This great family medicine is endorsed
by the many thousands who have tested
its its merits. Acting as it does on kid-
neys, liver and neys, liver and bowels, it is not only
prompt to prompt to relieve, but thorough and last
ing in the benefits which it bestows.
Next to a personal test tion, probably the best of this prepara value is found in the enormous sale which it has throughout the length and
breadth of this continent. Dr. Chase's Kidney-Liver a dose, 25 cents a box, at all dealers, or protect you against imitations, portra and signature of Dr. A. W. Chase,
famous recipe-book author


Clydesslales Hackneys We handle only the best of their representa-
tive breeds. We have on hand more good young stallions and mares than ever before. Large
importation just ar rived. Oorrespond arand inspection invited. Farm only one mil
from station. om Graham Bros., Claremont, Ont Advertise in the Farmer's Advocato

IMPORTANT AUCTION SALE
OF 80 HEAD OF IMPORTED LARGE ENGLISH

## YORKSHIRES

To take place at the STOOK-YARDS SALE PAVILION, HAMILTON, ONTARIO, on

## WEDNESDAY, JUNE 15TH.

This lot has been selected with great care from the leading herds of England and Scotland. Parties desiring to seoure show stock for St. Louis or Canadian Pairs will find in this attending the sale the best lot We promise to show those Sale to commence at one o'clock sharp. Catalogues mailed on application to
D. C. FLATT \& SON, Millgrove, Ont

Auctioneers: Thos. Ingram, Guelph; S. Frank Smith, Clappison's.

COSSIP.
$\begin{gathered}\text { It is foolish not to profit by the fall- } \\ \text { ures of others, but it is better to try and }\end{gathered}$ ures of others, but it is better to try and
fail, than somebody says there is no use.
Messrs. S. D. Crandall \& Sons, of
Cherry Valley, Ont., write that ther Cherry Valley, Ont., write that they have
purchased $a^{2}$ number of Yorkshire piga from D. C. FFatt \&\& Son, Millgrove, ings in
the past year, which have Mel the past year, which have turned out
very satisfactory, and wish to state that they have lately, received another that
young sow. which at ten young sow, which at ten weenk old
weighed 67 Ibs. Such
Such stock certainly ro flects credit on the breader, and is a
source of pleasure and proft to the

The joint sale of recistered shorthorm cattle and high grado cows belonging to
Messrs. John Kelly and Jas. K . bell advertised to take place on Weamp day, June 1st, at Mr. Kelly's farm, neal Shakespeare station, G. T. R., and six
miles trom Strat ford, should claim the attention of farmers and broeders want
 Scotch-bred bulls have beon continuuuasly
ussed in theses herras tor many years, and the stock has been well many years, and
liberally fed, but not poling liberally fed, but not pampered.

If the news about much winter-killing of
fall wheat in south-western som what in south-western ontario be
somewhat dampening to the spirte nothing of tamening to thind charaterizerithe the
news from Manitoba and the Northweat news rrom Manitobe and the Northwest.
Reports from Winnipeg state that the in-
creased creased area over last year under crop
will be 12 per cont. Seodilng is prac-
tically compored
 timate places total acreage in whole
Northwest under crop at something over lour million acres, probably $4,800,000$
acres.,

 bell." Paddy went and rang ring tho beoll. appoaroc and apkew hlm whet ho wanted.
a Nothing,", said Paddy " bot I reac

I oh 1 " said the funky with a moulte. where nee you've come oron the country
bughes." buahes.".", sald the Iriehman, " but in
"Yes,
Io
 Youve oonly to more wonderful eleghto.
monkey pops out."

A prominent educator, in telling of heo
 taught school in in adistrict where ho hoopt
and
bachelor's hall," the net



 eormined to donate some pork to him
thiou toll your othther is thero is hy
thing in this world that pork:" Shis world that I do like tit the pased and ther was no pork forthcoming. At last the
teacher mot the boy alono in the school-
yard.
"Look here Yard. Look here, John,"." he sala,
how about
oher re how about that pork ? " "o,"
plied the boy, "the pig got well."

The late James McNeill Whister had a rencly poodle, of which he was extrava gantly fond. This
with poode was seized
Wetoction of the throat, tind Whistler had the audacty to tend for the great throat apeciallot, Mackenzilo. sir
Morrell, when he saw that ho hed boon called in to treat a dog, didn't hiko if
much, it was plati. nothing. He prescribed, pooketed a blg
fee, and drove gway. sent post haste for Whistler. And he And
whiet Whistler, thinking ho was summoned on
some matter
 liko the wind to Mackenide's. On hit 0 art
rival Sir rival Sir Morrell weld, gravely: "How
do you do, Mr. Whitere? 1 H.
gee you about, heing see you abr. Whister ? m whith to
painted.o


## 56 FEMALES,

 6 BULLS.CONTRIBUTORS :
W. C. Edwards \& Co , Rockland. A. D. McGugan, Rodney. Chas. Rankin, Wyebridge D. Milne, Ethel.
T. E. Robson, Ilderton, Hudson Usher, Queenston.

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HUDSON USHER, Queenston, Ont.




## A New Record

For draft geldings of any breed was made in the
Chicago Auction Market on March 23rd last, when a high-grade Clydesdale Gelding was sold for

We are the oldest and OLJClesciane
argest importers of in America, and are now offering extraordinary
bargains in this breed, and also in PERCHERONS
 coachers.
ALEX. GALBRAITH \& SON, JANESVILLE, WIS. BRANDON, MAN
If your district is not supplied with a good stallion, write at
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## Imp. Clydiesdales is Shorthorns




CHOICE OF WESTERN ROUTES Chicago, Milwaukee \& St. Paul R'y. Th planning your wetern trip why not
take advanazase of the of orer take advantage of the ofrer or the
Chicago, Milwwuke \& St. Paill Railway
 Southwest Limited, Chiccago to Kansas
City ; The Overland Limited, Chicago City; The Overland Limited, Chicago to-
Omaha and San Francisco, and The
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Minneapolis, offer a variety of routes and
excellence in
 mation regarding these thre
travelled roads free on request.


TRADE TOPICS.
NEW ONTARIO is now arresting the
attention of the whole emigrating Engattention of the whole emigrating Eng-
lish-speaking world. Its resources are being rapidly exploited. Its homesteads are rich in timber, and its soil is pro-
nounced excellent. Immense mineral re sources abound throughout the whole re-
gion, and its supplies of fish gion, and its supplies of fish and game
are the most abundant in America. This whole new country is divided into five districts of settlement: Algoma, Thun-
der Bay, Rainy River, Nipissing and Temiskaming. Everyone interested in in
the development of Canada should write the Hon. E. J. Davis, Commissioner of Crown Lands, Toronto
for maps and illustrated descriptions.

FOR MUSIC LOVERS.-The construc tion and care of pianos is every year be-
coming a subject of increasing coming a subject of increasing interest in
thousands of farm homes, where good music is appreciated. As farmers be-
come more well-to-do, and their musical ideas more highly developed, the piano
supersedes the cabinet organ. How to supersedes the cabinet organ. How to
secure and properly care for a musical
instrument is, therefore, very important. instrument is, therefore, very importent.
In this connection we would commend to In this connection we would commend to
our readers a study of the beautiful pamphlet recently issued by Gourlay,
Winter \&
Leeming, of Toronto, Ont. manufacturers of the Gourlay piano. This
booklet describes piano construction, and gives a practical and very accurate, idea
of their mechanism and structure. The closing, page, on "The Care of the
Piano," is particularly valuable, and observance of the hints given will prevent
many a good instrument from being ruined or prematurely worn out. A
post card or note addressed to post card or note addressed to the firm
would doubtless secure a copy of the
pana paumphlet mentioned. It will repay peru-
sal. LYMAM SOM. D. Fr, Eppringeld, Maes. LYMAM SOINS \& CO., MONTREAL, AGENTS FOR OANADA.
BAWDEN \& MoDONBLL



Domestic Economy. Cucumber juice is an excellent skin whitener. The white of an egg is a good Deep and full Deep and full breathing is one the foundation stones of health. To remove corns, bunions and cal-
loused places, apply nightly a drop loused places, apply nightly a drop
or two of castor oil. glass of water taken before breakfast will purify the blood.
If the finger nails are brittle, soak, in warm water or olive oil a
moments before cutting.
For very oily hair, use the beaten For very oily hair, use the beaten
whites of the eggs instead of the yolks for a shampoo.
For excessive flesh, when much exercise cannot be taken, confine the diet to one meal a day.
To lose flesh, exercise vigorously for twenty minutes every morning on rising, and eat no breakfast.
Sleep with the mouth closed ; many
threat Sleep with the mouth closed; many breath through the mouth.

## a little Pinch of soda. A pinch of soda stirred into milk that is to be boiled, will keep it from curdling.

 from curding.A bit of soda, the size of a pea,
added to the tomatoes for tomato added to the tomatoes for tomato
cream soup, will prevent the milk's
". "breaking" when it goes in ; and it
is a safeguard for all cream soups. is a safeguard for all cream soups.
A little soda put into the water in
which dried beans are soaked will which dried beans are soaked will
expedite the process wonderfully expedite the process
without influencing the flavor of the
beans without influencing the flavor of the
beans.
When cooking green vegetable; a When cooking green vegetables a
small particle of soda added to the
boiling water just before putting in boiling water just before putting in
the vegetables will keep them in the vegetables will keep them in
fresh color.
There will There will be no disagreeable odor
during the cooking of cabbage and cauliflower, if put on in cold water
to which has been added a good pinch to which has been added a good pinch
of baking soda. They must be be
cooked about cooked about twenty minutes after
the water reaches a boil, and the the water reaches a boil, and the
saucepan should be left uncovered saucepan should be left uncover
during the entire process.
There are innumerable uses for this There are innumerable uses for this
same baking soda, which are commonly known. These are only a few
in which its worth is not generally in which its worth is not generally
understood as a valuable ally to the housekeeper.
cossip.

advertises Prince of Walesty and $126 \%$. breeding,
He also
heifers by the same

Mr. W. G. Milson, Goring, Ont, breeder
of Shorthorns, makes a change in his ad ertisement, in which he oflers for sale
young cows and heifers of several popular
Scotch-bred fanmilies from his herd, which
is headed by the noted chen is headed by the noted champion bull,
Abbotsford $=19446=$, of the Cruickshank
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has heavy (No. 9) hard steel galvan ized wire for uprights and for horizon tals, insuring serviceability and uniform does not rust and will not slip.

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REGISTERED HEREFORDS.

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## Shorthorn Bulls

Twoimported- - "Cruickshank Laven-
der"anda a Marr Kmman"-bred in he
purple, and individuall purple, and individually as gred as the
breeding would sugget. Also two
rand young bull grand young bulls about ready for ser-
viee. Yorkbiire boarr and sow from
imported stock. Prices rights Come
and cee seor RIGhard gibson, delaware, ont. GRERE GROVE STDCK FARM Scotch Shorthorns Herd headed by Abmos.


MAY 26, 1904
THE FARMERS ADVOCATE.

| cossip. |  |
| :---: | :---: |
|  | THO |
| , some - | PORTLAND |
|  |  |
| every time he loses at the it had never happened beiore |  |
|  | mix |



 spingh is taken into account.

 and sows ot hreading age, and importe
sows bred to so show boars.

 in the advertisement
writhe him tor particulars it it up, an

In 1902 a Surolk we was purchased a in
her nevero ound a hail monther proser withe



 raied, and ans.
doing woll.

An Engishman tells an amusing story
of Sir tsaac Now ton







English "As She is Spoke. Oh, why should the spirit
Ot grammar be proud. With such a wide margin Ot language allowed?
Of course, there's a limit-
CI knowed " and ..I 1 'vo


But then there are others
No better than the
One hears in the thelking
He hears every day.
"Where at 2 " asks one person.
Quite thoughtless. Asks another, ". did Mary
dit Hear $a$, ". Oh, yes, I went With she end her fell out
In his runabout."
And hear a man saying
i, Between you and
That blocen you and
Would Facific
Would make a good buy.
And this from a mother,
Too kind to her bev:
'I had rather you shouldn't
Do things to annov.".
And this from a student,
Concerning a show
Who says to the maiden,
"Let's you and I go."
There's lots of good people,
That's talking like that,
Who sho
Who should learn from we
To know where they're at.

Estate of John Battle thorold, ont. wholrsale in oar lots only.
Good Bulls! Cheap Bulls!


A. D. MeGugan, Rodney, Ont.
W. G. PETTIT \& SONS Impremank orrin
Scotch Shorthorns



 Shobtuoniapoited


ALEX, ISMC, O Colouriz. P. and Station




 SHORTHORI Gomand mink in



T. DOUCLAS \& SOMS, Banome Shorthorns and Ciylossides


nemimim itita tom:
Militionss suortion sime
 sHoirturorenss


N. S. ROBERTSON, O ARNPRIOR RAISE YOUR CALVES Blatchford's Calf Meal
 Rrosper High-class SHORTHORIIS
 and

Mr. John Herding, the English Shrop-
Shire breeder, reports that one or hhi
ewes born in 1900 has produced in four
900 has produced in hour crops thirteen lambs. Mr. Herlihy y looked at his lateost photo-
graph, and his


 pictur's soide be soide wid tho wan oi
had twinty years ago. Thene's an old
hat anxiows, , oiriedors aut loo. The ther's an old
that was never in the the wan be improvements in photographing, ", as
Mr. Herliyy, as he deposited the sal
face down and
face down in his tabose drawer,
Oi've yit to see thim."

Chicago has lost a leader in his par-
ticular Hine. A reporter gives the fol-
lowing rager

 the aged sheep that led his unsophis-
ticatod country cousins down from the
scale to their slaughe scale thetr slaughter-houve doom. Ho
had grow wise in the service and semed
to know all the trader wita to know all the traders who ond aromemed
his scale
service with well, and oplodded daily at his
sois pression of eyo that indicated and that he
knew what was expected of him every
minute

 thisge McCarthy, a sheep salesman at
tharket, bught him and presented
him to H . Ryan to facilitato of the Chicep from one of the hig scales
-

This was told as a new slory in the
smoking-rom of an up
house a few nights ago
Noab we
Noah Webster was, as might naturally
We supposed a stickle ve supposed, a stickler for the correct
usse of English, and he had trequent oc
casion to to ster's use-or, as he termed itt, misisues
of words.
On one occasion Webster happened to bo in the dining-room alone Noah, being somewhat susceptible to Ieminine charms, according to the chron-
icler, walked over to the girl, put his icler, walked over to the girl, put his
arms about her waist, and kisssed her צquarely on the mouth. Just at her this
noment Mrs. Webster entered the root gasped, stood aghast, and in a tone of . ${ }^{\text {orror exclaimed }}$
Why, Noah, I am surprised !

gust, turned upon her. How many times must I correct
in the use of simple words?" he romarked." You mean, madam, that you are astonished. I, man, madam, that you
that is surprised." mada, am the one

The wealthiest sheep owner in the territory of oklahome. says the Kanse
City Journal, owes his entire wealth and
 twelve years ago h ob bought ai herd of
several thousand sheep to smith County. The following winter was the most
severe in the history of that sotion or the state, and the sheop died like fies. The owner, thoroughly disguted, knocked hhe lambs in the head out of pity. The
ewes. almost frozen, had left them to Starve and chill to death Abour the
anch the lambs' dead bodies were There were hundreds of
the young, and the owner cold he young, and the owner could not
possibly care for all, and in sheoe desper ation heare filled all, and in sheer desper-
negery
nected net ke killing of the lambs was too
Thuch for the kind heart much for the kind heart of his wife, and
she finally persuaded her hushand to hring seven of them hor husband to where she
haised them on a bottl
homen raised them on a bottlie. When Hinton
located in Oklahoma at the openint bocated in Ollahoma at the opening of
the cherokee strip, elght years ago, he
hen had then had a few hundred yeard of of heopp
he progea Che progeny of those seven lambs which
he had carried home one in had carried home one at a time foult
years belore. With the excention
tro intoduction of several extull-blooded, is times, there in on ot to-day ats at varep on
an range that is not a lineal descendant

Day's Aromatic Stock Food

Saves foed by aspist-
ing stock to to digest ing, stook to digest
 their food. 4 small
dose in the usual foo Iose in the usual food twioe each day.
It contains no drugs; purely aromatic.
 Ask your dealer or write us.

## The nay's stoek Food Co., om station o. toronto. SHORTHORNS

Some extra good young
bulle for sale.
Oatalogue.
 OM, OARGILL \& SON,


## 2

## High- chas Chortharn Rulls For sile

simportad bilib.


arthur joninstol, Grammoon, Ontarlo.


MAPLE LODGE STOCK FARII, 1854
Shorthorn inulisand ifeifors
 Leicesters.
 - A. W. ©MITM, MAPLELDEOE. OnT.

OHORTEORIVE.



Shorthorn Cattle and Lincoln Sineep

 (sumi) They have both broeding and thdt-
IIdual mertio vidual merit.
J. T. arbso
Sharthors, AI Donaic, ontarle special of ing losualas, Yorkshires

 JOHN GARDHOUSE \& SONS Highnold P. .., Ont., Breeders of Silro Horses, Lincolin alif Lolcestior Sition.

 Fo 18 BIIITE
 FITZGERALD BROS., Moun St, Louls, Ont.
 is so difficult and complicated that only an expert can do it, and experts' services usually come high.

The flues in the Sunshine Furnace can be cleaned from two different clean-out doors and from the feed-door, so that there is no part of the flues which is not easily reacher

A special brush for this purpose is always supplied, and the operation is so simple that a boy can perform it.

The whole Sunshine Furnace construction is on the same plan of simplicity

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To use Pediar Steel Ceillings.
The entire surface appears to be one beautiful combination
of curves and angles, without beginning or without ending-a
Churches, dwellings, meeting halls, stores, and offices when
fitted up with I'edlar Steel Ceiling and Wall Patterns present an
appearance of richness and stability that cannot be duplicated
In lath of plaster. Besides they are economical.
THE PEDLAR PEOPLE, OSHAWA, oNTARIO

WV. J. WVatt's Eons neteoraig Shorthonns and CLYDESDALES
Don't miss the chance to get a grand cow or heifer, in calf to the 81,200 Scottish Beau
(ithp) trom the herd that has produced more chammions and won more herd prizes than any other herr in Canada. A fne blocky pair of bull calves and a yearling stallion for sale at Elora Sta., G.T.R. \& C.P.R. Salem Post and Tel. Office. 'Pho ne connection

## $\underset{\substack{\text { PINE } \\ \text { cRove }}}{ }$ SHORTHORNS

High-class CRUICKSHANK, MARR and CAMPBELL



 W. C. EDWARDS \& Co., Limited, Proprietors JOS. W. BARNETT, Mgr., Rockland, Ont., Can
cossip.
Mr. Geo. Rice, breeder of Holsteln cattle, writes: "Since moving tr
the Annandale Stock Farm, Tillsonburg, we have added to our herd over 35 head of choice cattle, mostly imported fro with great care for thelr individual excellence. Many of them are now in the cellence. Many of them are now in the
Advanced Registry, and all of them are of that capacity, and will go in the first time tested. They include the daughter and descendants of that wonderfully fine cow, Iosco Pride, with which we won
sweepstakes at Toronto and the Pansweepstakes at Toronto and the Pan-
American. This brings our herd up to over 100 head, and they are quite com-
fortable in the capaclous and fine stables at Annandale, and are now enjoying
roaming over the broad acres and parroaming over the broad acres and par-
taking of the luxurlant pasture. taking of the luxurlant pasture.
"Our spring sales have been very good We sold to Mr. Reuben Nancekivel, an extensive dairyman near Ingersoll, who
owns some 600 acres of land, that finelybred bull calf, Sir Calamity Posch being the son of the great bull, Sir
Tieten Pietertje Posch, whose dam still retains year-olds, having made 87 lbs .10 ozs. milk a day, and over 27 lbs . butter a
week. of Petrolias, got a fine young cow, Nora
Crema, whose sire is the son of the mous cow, Eunice Clay, 85 lbs. milk
day. They also took a very handsom
bull in Maud of Went's De A bull also closely related to him, we sold to
schoyle.
Mr. Edward Hunter, of Ver-
H. Beckett \& Son, of Hamilton, got a fine yearling bull in Str Artis
Posch. His dam, Cornelia Artis, has been Posch. His dam, Cornelia Artis, has bee
a fine show cow in her day, and a grea
milker and milker, and the sire of this bull, Sir
Abbekerk Posch, has for dam the great provincial dairy test over 8 lbs. butter
in 48 hours, which is the world's record or a public test. We also sold to Mr.
H. W. Norton, Howell, Mich., a fine bull Jewel Mechthilde. This cow has
Mather whome dam is the greal cow, Ianth lour-year-old record of over 22 lbs. but
ter a weea, and she averaged 4.2 per Norton's calf is sired by Sir Abbekerk
Posch, whose dam is the great cow, Aaltie Posch 4th. She also has an
fficial test of $23 \mathrm{lhs}$. butter a week ai over 10 years old, and she is also the world's record for two- and three-year-
olds, over 27 lbs. butter a week, made at under three years old. Another great wail which it was our pleasure to sell
was one we sold to Messrs. Richardson \&
Son, Caledonia, Ont. to head their fine on, Caledonia, Ont, to head their fine
erd of pure-hred Holsteins. This bull
Tol The, made at four yeare old, and wo
prize for that class at the time ecord was made. At five years old, she
ncreased her record to over 24 lbs. a Neek. The sire of Messirs. Richardsons'
bull Sir Pifeterte Posch, whose dam
has the world's record of 27 lbs. butter
 am, Canary at four years Coverts ${ }^{3!}$

JUST A COLD SETTLED IN THE KIDNEYS, but IT TURNED TO DROPSY IT WAs CORED BY

## DOAN'S KIDNEY PILLS.

Read of This Wonderful Cure It May Do You or Your Friends Som Good to Know About It.
Miss Agnes Creelman, Upper Smith field, N.S., writes:-About 18 month neys, and finally turned into in my kid face, limbs, and feet were very muc bloated, and if I pressed my finger o them it would make a white impressio the flesh regained its notural color was advised to try DOAN'S KIDNE PILLS, and before I had used half a bo one box completely cured me. and the never been troubled with it since, thanki to DOAN'S KIDNEY PILLS.
Price 50c. per box, or 3 bozes for $\$ 1.25$;
ell dealers, or The Doan Kidney Pill Co Toronto, Ont

## 16

Shorthorn Bulls
All pare Scotch, two imp. in dam, ${ }^{7}$
trom imp. sire and dam, others by imp.
sire and from Scotch dams of popular
 bred by W. S. Marr, a Present offering
also includes a number of Sootoh heifera and imp. cows in calt. If you want a
herd header, or ows that will produoe
them, write ne,
R. MITCHELL \& SONS. Melson Ont, Burlington Jat. Sta. ONLT THE BEEST Sootch broeng boulos and 10 hetiere of the pores have ever orfered, for sale at prioes that will induo
out to buy. Moet of the heifers are in oall to im
 Shrophires for mane numual Koprosentative in Amerion, of Altrod Monsolis.'
 olds and young oown for sale. Soveral Minge, tro-yeden . A. BRODIE, Bethonda, Ont
Scotch Shorthorns and Berkshire Swine AT VALLEY HOME STOCK FARM.
 and good heavy animals; will bell choat to marte
room lor our increase in younf stock. Also Berk-




SGIDRTHORNA AND SHROPSHIRES

 Rose Cottage Stock Parm SHORTHORNS
Royal Prince $=31241=$ hy Sir Tatiton Sykes=4902=, hoadal Resiriced
the sire of Fair Queen, winner over all beet
 Shorthorns \& Scotch Collies FOR FALE at Also a quantity of Strawberry Dent Corn for geed at
2c. per lb., hhelled, in 2 -bush. lote and legs; 24 bush.


SCOTCH SHORTHORNS 7 bulls, 9 to 16 months; cows and heifers in
calf. Alio, Berkshire pigs, 11 months old.
Prices right DAVID WILNE, Ethel. Ont. Shorthorns, Berkshires and Lelcesters For sALE: Ohoice two-yeer-old heifera, well gone
in calf; also yearling heifer, buil oalvoe. Boarn
 SHORTHORNS FOR SALE One grand young bull, 18 months, a
dark, rich redrooan, and a show animal;
alon come alon some good cown and a show animal heifers. Come
nd see then



QUESTIONS AND ANSWRERS． veterinary． chorea．
Mare holds right hind leg up in the table．She does not go lame，but when stable．She does not go lame，but when
beccing she cannot set the foot down
quickly．
J．R．M． Ans．－This is a mervous trouble and hard to treat．You will probably find potassium night and morning．
boc spavis
Three－year－otd Hackney flly has puffs
on the inside of hock joints；exercise re－ duces them some．
Ans．－These are bog spavins．Blister and a half drams each biniodide of mercury and cantharides，mixed with two ounces vaseline．Clip the hafr off；
rub blister well in；tie so that she can－ rub blister well in ；tie so that she can－
not bite the parts．In twenty－four hours rub well again with the blister，and in twenty－four hours longer wash off，and apply sweet oil．Let her head down now，and you may turn her on grass；
but must oil every day until the scale all comes off，when you will tie up again and blister as at first．Follow this with a blister every month，as long as neces－
sary． sary．
PARAPLEGIL.

Collie bitch took sick and lay for six not eat．I gave her milk and eggs out of a bottle．She is lively now，eats well，etc．，but has no power of her hind quarters．
Ans．－Paralysis has resulted as a sequel
to the attack of illness，which may have been caused by arsenic poisoning．It is five grains of wur vomice Give her five grains of nux vomica three times
daily．It can be given by cutting a slit in a piece of lean meat，dropping the drug in，closing the slit，and giving her the meat．Increase the dose by tww
grains each day until a nervous twitch grains each day until a nervous twitch－
ing of the muscles is noticed，when you will cease giving the drug．
roaring．
Young driving horse has wind trouble there behind the jaw the throat is thick and every few weoks it breaks as it pears，and discharges at the nostrils．He breathes rapidly，and at the end of each breath there is a wheezing．Ho coughs considerably．
Ans．－The trouble is in the throat and gleet，as well as an affection of the throat，and it is doubtful if the latter can be cured．He is what is known as a roarer．It is possible benefit may be
derived by blistering his throat；and the discharge from the nostrils may be checked by giving one dram mach bul－ phate of copper and iodide of potassium the dose of potash．If the glands of the the dose of potash．If the glands of the
throat are enlarged，rub welr daily with compound iodine ointment after the effects
of the blister have passed． Horse coughs laryngitis．
substance runs freely from his a thin He has been so for three weeks． Ans．－This is laryngitis and requires prompt attention，else it will become
chronic．As you say the horse chronic．As you say the horse is a co call your veterinartan in，as the dis－ ease is liable to many
which require
complications
treatment ymptoms．Where no complications Rub the throat twice daily for two days with a liniment made of equal parts
spirits of ammouia，oil of turpentine and rew linseed oil．Give two drams chlor－ ate of potash three times daily，either in
soft food or placed well back on the tongue with a spoon．Do not drench． Steam the nostrils twice daily by hold－ boiling water with a couple drams car－ bolic acid．Of course，give rest and keep warm．

Clydesdales for canada Mr．Matthew Marshall，Stranraer，has
fold and shipped three Chydesdale stal－ lions to Mr．John Graham，Carberry，
Man．They are well－bred horses，and should do well in the Northwest of Can－ ada，where the
creasing demand

MILBURN＇S


Are mommbination of the sotive prinolples of



Blok Boadaeh Jamplion Beart





Phizimwoik AYRSHIRES in Scoportand bulls from the best milicing strain nings for 1903 at Toronto and Ottawa：The
gold modal and 4frst prize herds；； 38 prizes in


 C．Ti R．and C．P．R．stations on the farm．
2．milles west of Montroal． ＂Nether Lea＂Ayrshirres，Deep－milking Three choioe bulls，fit for servioe； 6 ball Auchenbrain（imm．）at head of herd，whose arm has a record of 72 lbe．per day．Write

3 Ayrshire Bulls one year old，fit for service，al
 Y．YULLL \＆SONs．© Carloton Place．Ont SUNNYSIDE AYRSHIRES．
 all aRes，of true dairy type JoHN W．LOGAN，
Allan＇s Cornera P．O．，Quae Howick Sta．，G．T．R．
AYRSHIRE HERD－HEADER。
Ioffer the grand imported bull，Roval．
Peter of St Anes an A No． 1 butl．
both ind
both individually and as a bire．Also
three yearlings and anumber of calves，
including three last
W．W．BALLANTYNE，STRATFORD Homecroft Farm．High－olass Ayrshiro Cattlo．Ohester White 8w／
for rale at ressonab＇e price日。．For particulars writy
to J．F．Parsons \＆Sons，Barnston Que． STOCKWOOD AYRSHIRBS are bred for size
beanty and profit，from imp，and home－bred stool with high milk recordin and extra high tegt．Young
stock aluays on hand．Pricee right．David Ni，
Watt，Alla

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 axtra nioe young bulle，Prioen reasonable．om
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 W．8．CARPENTER，PMOP．． 1 FaRMHAM OXFORDS We had the champlon flock of
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 HENRY ARKELL \＆SO

TAMWORTHS Amp HOLSTEINS Boars if tor service，sows bred and realy to breed
0 boars and somp from 2 to 4 montha ；a fine lot o BERTRAM HOBKIN， Grafton 8ta．，G．T．R．The Gully P．O， GLENHOLM HERD OF TAMWORTHS
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Wer Tamworths \＆Shorthorns


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 of Kent Co. Ont from Mr. H. Marahall their London Ont., who purchased from portred stallion, Dornock in whe imcars at destination, and 2 ,oso 1 bs., of the in Clyde class aten, and chatham on first prize
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A look through tho catalogue of the
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frot first-clasg Canadian herds, advertioed and by auction at Hamilton, Ont. on richly-bred, lot, showing that besides being a high-class Scotchhorrod bulla in thid list of sroes. aud representing many of the best
 Whole ofrering being ail a dozen in the five years. Two-thirds of them yeare ondd, age have calves att foot to bo be over this hnem, and in many instances the cow wh
again in calf to one of the then the in service in the herds from which (ELECTRICITY) may be restored to thevered. I have invented a device by whioh this life

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work "or book, obtain that chats. lator which is rook, obl.

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separation and combination, Chese are the prominent featurees of tho It separates ail the cream from the millk,
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ness, speed, economy Mess, spead, coconomy, and ease of opera-
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ing cream from milk, and in thees day of intensive farming, the method that
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tion that cunge
 Chione. Like the other well-known ma
chine Reople, at Guelph out by the Reymond
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    was over the human the human
    H. A. B.

    ## heart

[^1]:    THE PRADE TOPICS.

