## PAGES

MISSING

MAY 31,1905


KINNARD-HAINES CO MINNEAPOLIS, MINNESOTA

## Kelowna District

Okanagan Valley, B. C. Has a reputation for its midd
climate, truiiful
soil
and
 Tor information about thy
ond itionab of the oounty
and ilit of farms of all $d e$ de J. COLLINS,

İstate Agent. Kelowna, B. C.
Go Slow!


"CLIPPER
"Anvaneo" Manh
duace Louns
TlEFII, Dulo.
Mpeolar to Far HALF-TONE ENGRAVIIG

 EDMONTON
 ted as it is in the very heant of sunny

 $\underset{\text { For information, Edmonton, Alta. }}{\text { Arean }}$
REAL ESTATE
in Central alberta, addrese
E. J. COLLISON, Didsbury, Allberta farm, ranch and town property.
LANDS, FARMS Several good farmq and farm landss
limproved, partily cleared, now on the
 hop.raising. truit and mixed farming.
Parthoulare on request. Terms to arrang
ustinian pelly, chilliwaok, b. c.
B, P, RICHARDSON
bARRISTER, SOLICITOR, GRENFELL, - ASSA LANDS FOR SALE.
 GASOLINE ENGINES
 GET OUR PROPOSITION


## Before You buy

## 

## Implements or Machines for the Farm CONSIDER THIS:

You want the seeder, the cultivator, the harrow the harvesting machine, or whatever it is that you are buying, to be of the best possible valuc.

That is, you want to get the most for your money -not most in quantity, but the most in quality, long service, durability, and freedom from break-downs.

That's justice to yourself and good common sense.
Well, we claim that in our big factory in Hamilton, Ontario, we have a combination of experience and fucilities that enables us to offer to the the farmers o Canada a line of implements and machines, of unusua excellence. We don't like to use the old phrase, "the best in the world," because everybody says that, but thousands of satisfied customers say it for us, and they really ought to be, îor we have had experience and we have facilities possessed by no other manufacturer.

We cannot tell you on paper half the good points of the International line. But we try to make it easy for you to see for yourself. In almost every community in all of Canada you will find an Internationa dealer. He has catalogues describing our line. He has samples on the floor. He will be glad to show you Isn't it wisdom on your part to call upon him $b_{8}$ fore you buy, and see for yourself what he has to offer? Do it. It won't take much of your time and it pays to be informed on the merits of different lines.

Remember, too, that every machine and every implement sold by every International dealer has back of it the International Harvester Company's reputation for the highest quality and longest life.

Call on the dealer.


## McCORMICK AND DEERING

Binders, Reapers, Mowers, Rakes, Tedders, Sweep Rakes and Stackers, Gasoline Engines, Knife Grind. ers, Disc Harrows, Smoothing Harrows, Lever Harrows, Spring Tooth Harrows, Hoe Drills, Disc Drills, Shoe Drills, Cultivator and Seeder and Binder Twine.

## CHAMPION

Binders, Reapers, Mowers, Rakes, Tedders, Sweep Rakes and Stackers, Knife Grinders and Binder Twine. works or $\qquad$
International Harvester Co. of Canada, (Limited) at Hamilton, Ontario


Any Kind of Fuel is Good Fuel with the
HECLA FURNACE Ask for our Booklet wobich tells all about it



CLARE \& BROCKEST, Western Agents,

WINNIPEG, MAN.


LIGHTNING WELL
MACHINERY
Rotary, Coring or Rock Drlllinge
Any Diamoter, Any Depth, for
Water, OII, Coal or MImera Prospocting
criptive Catalog on request.
The American Well Works Aurora, Illinols, U. S. A. chicaioo, ill.
dallas, TBX
Joseph Rodgers \& Sons
SHEFFIELD, ENGLAND.
 Jamos Hatton \& Co, , Montral, soom im Anomatio


## WINDMILLS



|  |
| :---: |
| AND E S AL |
| FIPE |
| PROOF |
| SZANOS SEVERE FROSS ROOFI |

MANUFACTURED In CANADA, EsPECLALLY TO WITH-
sTANO THE SEVERE CONTRACTION OF THE FROST. Send stamps for samples and booklet.
W. G. Fonseca, Esc. ${ }^{\text {Winnipeg, May } 22 n d,} 1899$. Dear Sir,-Replying to your enquiry, would
say that the All Wool Mica Roofing that you sup-
plied us with four years (Signed)
BLACKWOOD BROS.
W. G. FONSECA \& SON, 56 Fonseoa Ave., WINNIPEG
ENMANSH|P steoography
ing. Write for complete courseepor
hiome strudy in all three. Intures a



London. ~ Toronto.~ Montreal. Winniped.VancouverS? John. N.B.

## Stop and Think

and then come and see what we have to offer you : : : : :

No fake business, but sound business propositions that appeal
to men of brains and common TEN THOUSAND ACRES
within a radius of fifteen miles of the young and growing town of (ayley, in the great winter-wheat belt of Southein Alberta. Hundreds are here and
hundreds are on the way. Before youllocate. write any of the following david felghman, Jell \& cochlan,
H. W. KROUS,
$\qquad$

If answering any advertisoment on this page, kindhy mention the FARMERS ADPOCATR

# KARMER'S ADVOCATE <br> * AGRICULTURE, STOCK, DAIRY, POULTRY, NOLD HORTICULTURE,VETERINARY, HOME CIRCLE.* 

## WINNIPEG, MAN. MAY 31, 1905. LONDON, ONT.

## Editorial.

## Federal Control of Crown Lands.

## , Cral

 new Provinces has centered on the question of Provincial rights and its sub-question, the edu cational clause, regarding which the opinion of opinion we have nothing to add. With regard to the determination of the Federal Government, as expressed in the bill, to retain for some time the administration of lands, there is little to be administration of iands, there is of the country is kept steadily in view.Our objection to making two Provinces was based on the disadvantages of a multiplication of pense, and the same principle is the basis for our opinion that for the present it is better that the Federal Government retain the lands. It has
been argued that, if the Provinces got the lands been argued that, if the Proviluces got the lands,
free homesteads would be done away with, which may or may not be triee but is true would be un fortunate, as these are a great lodestone to intending settlers, especially from south of the boundary

An article appeared in Collier's Weekly recent y, headed "Building Canada with Americans.' showing what an attraction free homesteads are
"Intelligence of good farm land does not dy like the tidings of a gold strike, kowever, and
these principles, if let alone, would have been a long time in peopling the great Canadian Northwest. In the past two or three years the interested parties-the Canadian Government, the speculagreat campaign of concerted action, which, de spite the fact that so little has been heard of it is now in fult bast. Where a ew years ago we
lost good citizens by the hundred by migration lost good citizens by the hundred by migration the hundred thousand, and I do not hesitate to say, from examinations I have made of numbers of parties, either en route or about to depart, wrat ay the the at at not at the bottom.
" Of course, it is unfortunate that the tens of country to better their condition have left the found this betterment by going west in the United States to equally good lands, which, thanks to the exquisite operations of our political system, are not now open to homesteading, as they have been speculators. Having been robbed under the nose of a complacent Government of what was rightfully theirs, they cannot be blamed if the pastures look better under the British flag.
sumped into the is that the westward tide has land, and mining-tract grabs, and so turns north into Canada-ere long in numbers of a hundred Chousand per year-birthright-plundered expa-
triates "The gods of Progress and Change now have freached our walls to the northward, and the frst rush of what is destined to be a mights Western Canada . It is wholly an artificially directed movement-the work of tho Canadian Government, the Canadian railways, and the Canadian land speculators. Sound economic principles, however, underlie the superficial causes that have set the tens of thousands on the An affective immigratiun policy is wet con ducted by a central authority. Although On-
tario for years has had possession of her lands, neither in the Old Country nor in the United ganda worthy of the name. The Manitoba Government's Immigration Department has done its most useful work, not as an immigration departBritich ing, it Compribia has done comparatively noth and municinalities practically left to individuals and attract public calamity if at this time the Federal Goy ernment were to abandon its immigration policy, Separate Provinces cannot allord the expense an active immigration policy; united, the cost a casie
Another reason in favor of retention of the lands, is the splendid work done by the N.-W. out diseases of animals. Once that forco wero disbanded, cattle rustling and horse stealing would be far more common than now Then again, the Dominion Experimental farms system. already of great benefit, and fraucht with great possibilities, will, we hope, be preserved and er tended to meet the needs of this rapidly-developing country, So that, take it all in all, looking at the matter from a business point of view, and from the standpoint of national progress, we the present lands ; and in saying this, no doubt or impula tion is placed on the ability of the Provinces to handle the lands ably and honestly. The vacant lands being really an asset of the Dominion of
Canada as a whole, can be advertised more cheap ly and thoroughly by the one central authority than by three or four separate insiliutions. is to be regretted extremely that the Inw-makers have not seen fit to incorporate in the bills for the two Provinces provision for making an en dowment with sufficient land to adequately support an agricultural college for cach Province Such would have been statesmanlike; but one cannot expect statesmanlike dreds from men ani mated by politicians' ideas. In this mattor of Government could well have agriculture the Pedera the people at Washington.

The Carnegie System of Distributing Wealth.
his wealth as he pleases, and criticisms of his methods are unwarranted, providing lie does not claill to do great good by his benefactions. The Carcation of a cortain for the primiciple that edy bulk of human ills, which is rather a large claim. Inspected more closely, the principle held savors of the very materialism it is supposed to avoid or combat,
knowledge.
Libraries are a most ornamental and usefiul adjunct to any community, but the great forces child of the former-cannot be overcome by aly gregations of books, or the frequenting of book storchouses. The great need of human kind lo-day, in orace mprove the rave, it-mor things. the brain can do its normal work: other wise it cannot. Occasionally a grnius in litorature or art has sprung irom anf cevirntent of poverty and disease, but such hare fow, and beat
no relation to the rank and file of the people. The ('arnegie benefactions are vastly inferior in their conception and purformance to those o
people to work as well as to read and think : the former supplies the opportunity to some people waste time, to others to improve themselves. ifts is the ideal form for a millionaire's gifts to take? The support of hospitals for the of populationdowinent of a hospital in celound method of distribut probabry the test mak ing such mere alms or charity.
Large free hospitals mean a benefit to the whole of mankind, more than is obtained by direct relief of suffering. At hospitals are great chances for the embryo medico gaining that rich cinical experience so essential to successful pracless holess, so be bept wid are more or thoroub sulle bern vations thus made mas be of use in the obser new and mare successful methods in suggesting The hospital is an essentiol for the study of such diseases as cancer and other malignant maladies, and its scrupulously cloan operating rooms can hardly be dispensed with if success in surgery is to be obtained. The person in need of food or health cannot think clearly or reason well, and the present form of donating libraries to cities and towns well ahle to afford to pay for them, is not, it seems to us, making the wisest and

Distribution of Shrubs by the Experimental Farms.
biscussing in turse columns from time to time had distribution two the sysed tities were far too small to be of chy great fit and, secondly that we believely in beope paying for what they got it surely is people serious falling away from the standard of othics that a Government institution should be found encouraging people to believe in the doctrine principle underying "gambling," namely, the getting of something for nothing
Aside from this, the distribution of free shrubs is open to the objection of interfering with legitimate business, as there are naw nurseries in Canada able to supply all the large and In objecting to this free distriluation by called for mental farms, this paper does Not include the
orestry branch of the Department of the Interon way, is devoting its attention one of the rensons for which. Such work is created, and althoush which the branch was the free distribution of trees by that even to the public service, we consider the arguments are not sufficiently strong to lead the "Farmer's Advocate" to support that view at the present time fribution, that sted in defence of free tree dis men were out of all proportion to the value the trees. That may or may not be the case bir, in any event, it has no bearing on the particuiar case before us. Shelter belts are essential to the successfiul growing of large and small the and ornamentals, and to home-building on " luxury " class, and the "A Farm come into the believes that those wishing to possess luxuries chould pay for them. At the time of the intuental shrubs esystem or donations of ornahave been desirious of obtalning the experiencos of farmers in other parts of Manitoba and the is wot a thits, but sirch and Why thout
steets be distributed or fre thy the tarms

THE Farmer's Advocate and Home Magazine. xhie leading agricultural journal in manitoba

## the william weld company (Limitrod).



omicu:


> Branca Office: Caloary, Alebrta Carienstran Ofrick: London (ent, London, Ont w. w. CHAPMAN, Agent, Mowbray House,

The farmer's advocate is published every Wednesday







 didicontinued
REMITTANCES
R
 When made otherwise wewere will notere wherecponsible THE DATE ON YO
subsorition is
Naid.






with hidial paper shoulul be adadeses
Addras-THE FARMERS ADVOCATE, or
THE WILLIAM WEID
the william weld company inmited,
$\xlongequal[\substack{\text { any } \\ \text { arees, }}]{\substack{\text { more } \\ \text { why }}}$ trees, why not pigs, shecp and cattle?
This free distribution of seeds and trees calls for time and mones allocated to the work of the be used in other avenues of work by the experimental farms, such as breeding hardy varieties of
clovers and earler-maturing (arictics of corn.

Summer-fallow or Rotation of Crops? It may be assunced, from the alione he ring, mended or suggested, bare sunumer-fallowing is system.
It is customary to speak of the propress of
agriculture, which may be liriefly oullinel in the four stages following: A-C'ontinuous grain cropping;
occasional bare fain cropping, varied with un
bato once in three or more years: C-Grain cropping, manuring on fallow, and some live stock; 1-Crop rotations, live stock
sufficient to consune bulk of the rough, Erain, masufficient to consume bulk of the rough grain, ma-
nure applied on grass or with corn, roots or late barley, no summer-follow. The fourth stage -one all farmers should aim at-is the most profarm more evenly, stores up rather than depleters
soil fertility, and is aitugethre th." monst satisfactory, because it dumands manual ind mental
skill in the study skill in the study of sils and licw stock and
therefore, places farm in in a hiyher mane. There are two reasons antancoll on the summor-
fallow method, viz. conservan


not be preferable. There wns ac.
lack of moisture for the
of crops if the humus is presint
tity. Weed suppression and restoration of fer fallow ; the latter has been claims for the bare
fall able by experiments which show incontrovertibly that bare fallowing exhausts the land more rap is left then cropping in the ordinary way. There fallowing, that it eradicates weeds and while such happens to be a valid excuse, it is quite in order for each and every farmer to consider the bare-suminer-fallow method of weed eradication is not too expensive, and whether an equal fertility evolved and loss of use of land, cannot be evolved an
Prof. Shepherd's results with clover in North Dakota hold out considerable promise to farmers in Western Canada, and are quite optimistic when compared with the attitude of our experimenta farms to clover-growing. From time to time in this paper mention has been made of variations it will do no ley, as a sown late and cut carly, thus allowing destruction of young weed plants before sowing the barseed. Others, again, sow lightly (one-half bushe per acre) with wheat or oats the land which then pasture the crop on, thus firming the and down well. Another method we have seen triel is to sow rape and pasture it off, thus getting a lot of valuable feed, besides keeping the soil
well packed. In some locations this not prove acceptable, but in many others it will We believe that advance in our methers it will cultivation must come now-along the line

Instances of Successful Co-operation: IV (Continued.)
dustry already mentioned the Canadian cheese in operating, and an editorial note in the of farmers co well stated that, though many of our cheese factories had more recently been taken over by private enterprise, their success had been achieved as co-operative concerns. In view of what has been maintained in these articles as to the right principles and methods of cheese industry there is not the same need for specific guarantee of milk supply by members; as milk, unilike live animals or other farm products, cannot easily be sold except to the mearest factory in most cases. The capital required was obtained from members instead of hy loans. Without the guarantee as to care of animals and milk, which is universal in the creamery associations of Denmark, our factories, as we all know, have had the greatest difficulty in securing milk of the best quality, and, in consequence, our national cheese prodThe same is very true of our creamery as it should be. the same reasons. The Dairymen's Associations, however, are overcoming these diffculties in another way, and it is noteworthy that thoir tendency is distinctly spirit of Government compulsion, and away trom the Fieaders of the "Farmer's Advocate" are sufficient ly famlliar with the history, methods and principles of the binder twine factory and 1 need only mention begun under their auspices and supply enterprises success, breaking and keeping down pired with entire in both those directions. As in the cheese combines conditions peculiar to these enternrises made it them to succeed in spite of private competition easy for spite of the fact that they were not owned, organized or managed according to co-operative principlea and methods. They are simply limited liability concern and the fact that a large number of their sharea held by farmers does not mako the distinction any less
That they have gained practically the same results is due chiefly to the fact that the owners and managers were actuated at heart by the spirit and principles of co-operation. Rut they miyht, for their own nutions. That these omners and managers have thus Merated according to the spirit of co-operation only what me farn, then, for prodenerative industries.
most of it a long distance) to market. The amount of farm products sold by Canadian farmers is enormous, It has been done co-operatively abroad. Denmark has its associutions for sale and transportation of but ter, bacon, eggs, horses, etc. Germany has nearly 2 , 500 associations for the same purposes. France and products to market, insuring them in carrying thei selves, the Danish associations actually save one-quarter of the price received on the British market! The western farmers of the United States are rapidly increasing sale of products numerous associations for co-operative has over 200 of these local associations, owning their own elevators, dealing in lumber, coal, etc., besides handling their grain and live stock in combination. The Rockwood association alone handles over $\$ 700,060$ worth
In all these instances of co-operative packing, shipadoption of gradling and uniform trade-marks. In the case of the Danish and other European organizations the control of the freight rate situation lo also obtained also when our organizations are powerful enough. The "Farmer's Advocate" has forestalled me again in the matter of co-operative or " mutual " insurance, Every farmer knows of such native organizations, and place just here, but it may be said that co-oparative insurance is the only kind the farmers should adoptbut it should be truly a co-operative concern in every instance. And the scope of such insurance could be against sickness, loss of labor supply, etc.case being a suggestive one for the Cenedia the latter Careful reading so far will show very well the princples and methods of the most successful farmors' many with the tacts of the axtent 1 I think, surprise tion of that sort has carried organiza the wonderful results thus secured to the organizing farmers. I shall not attempt to outline cases, at home or abroad, where co-operation and agricultural prosperity are together absent, but I shall give an instance
or two of importance, to show that the intent to cooperate, unless put into shape according to the prin-
ciples and methods emphasized herein, may result in otal failure.
failure of attempted co-operation
With the exception of one co-operative bacon fac-
ary, established in a Danish district where there were not hogs enough to keep it going, there is no discoverable instance in Europe where co-operation has failed. he (so-called) Co-operative Bacon Factory at Palmer rganized, as was occur to everyone. This factory was ford, as a limited liability company, with at Brantamong the farmers to a considerable extent. The Brantford Company succeeded, while the Palmerstor ompany failed. The reason is easily seen.
When the farmers' company started rivate packers-who, be sure, understed business, the dangers to them of co-operation-went to the ago the with increased prices for hogs. They went to the many armers who didn't own shares in the factory, and also new factory lost one dollar on every hog they that the and the new factory soon quit. It was vary anmple The farmer who had $\$ 10$ in bacon-factury shares got
his cash- $\$ 10-$ in increased profits on one batch sold in Toronto, and could afford, just then to see the factory to fail because IIE fact is, he didn't expect the tory's competitors. He thought the other shareholders and the farmers generally would hold the factory up. And thus the factory failed. Had that factory been ber of which had given a guarantee to sell itery mem raised, and a guarantee to pay his share of the liabil gest if failed, you may be sure it would be the big ada to-day. More the bacon-curing factory in Can he doesn't Mote, the complaint of one farmer, tha of another on getting too good a price tor conten commission every buyer of horg takes The ten per cent would go to the farmer's bank account. hanced profits in other respects. As it is, we are desaying it cannot be done-operative bacon-curing," an can be done if the farmers do it themselves.
Another instance of so-called co-operative farmers Mastry is the "Farmera' Co-operative Harvestlng to decide whether it is a success or a a failure. soon ye is in dispute at present a anong the directors, one of
whom is a prominent Toronto financier. But it tainly is not co-oprative, and so far as as can be learner
most of the shares are not held by farmers. concerns us the farmery-is that the farmers. Wha bindor cordin the the methods and principles outlined in these
arti.in.. firms whe olthe own terms with the suth and arm han the Candian farmer following

## Forses.

## Old Country Shire Men, Wake Up !

 The F. \& S., recently, under a heading, "The shire Horse Abroud,' points out reasons, winch the United States know to be correct, why the shire is not more commonly used on this side One thing horse-breeders on this side of the Atantic can make up their minds to is that, if pure-bred draft horses are wanted, the Shire pedigrees (either British or Canadian Buoks) are ar, more valuable than many of Percheron pedi Irees, so called. It is remarkable that even sider Canada a negligible factor as a horse-breeding country, whereas it is unexcelied in climateMore part of the wor bing paid possibilities of developing a better trade for hire horses abroad. Hitherto the extremely satisfactory home demand and the high prices hich horses are rcalizing was enough in itsel warn off any foreign purchaser who had not a
ufficiently long purse to stem the current of home competition. Nowadays, however, ther sems a greater disposition to view the foreign ultivated, and as useful for more than an mferior hoise. How often have we heard the phrase
used, when doubts were euttertaineu as to the advantage of maintaing a colte entir', ') (h) he will This seems ilities of our ign trade, although no doult it is a correct relection of popular opinion with regard to the
present state of the foreign trade for Shire horses. (hays than very moderate opinion of the character of the
Shire horse. How difterent has been the policy which has animated breeders of the Clydesdal eercheron is the great overshadowing power ther use the fatal mistake has not been made ending indifierent animals over that this power argely set. Chicago, for instance, looks rraught horses with as little tair on their limbs as possible, just because the Percheron has set
the fashion, and the quality of the French breed he Shire. "U Undoubtedly there is room for development in the iorign rade of the shire horse. There er stock that any possesss s as the present mu-
ment in the Cnited Staus, and, juduly by a re
po.t. the activity which the native half-bred Iraught nare possesses is regarded as sufficient
in itself to impart that quality, even where it is slightly wanting in the sire. But weight is a y necessary in a draught horse. Activity is able feature, and the Americall-l)red horse has not been lacking in that particularar quality If Aneri-
can breedes are looking more to weight than they have been in the past, it is a moral certainthat the shire horse wifter se one of the first the problem of the use of the Shire holso as a
means of grading up the mares which produce the cart stock of the United States. It must alway: erest is a powerful one to fiyht, and proeepresentative animals, and not the closs of stufl which, unfortunately, has leit these shores so ireely within the past ten vears. The Shire
Horse Society has lieen considlering the question, factorily hy the society itself, and the slight en conragroment which it atfords to shire admirer
in America shems to be aliout as far as it is
 has done in the case of other breeds. There aro
various dificulties in the way of the Shire Horse Sociely taking the matter up, tuit there is none
beyond the quivestion of expense and consideration If the probable resuits to bar the breeder private in the Sates. The quastion mivht very well be
iurther considered. as its possilibititios have heen urther considered, as its possibilitits have been
oy no means exhausted, in view of the tendency of the times on the othrs side of ohe water." What the breed needs in (anada is a man to the Shorthorns and Yorkshires, and we sincerely
hope to see the famous old breed frought more


## Calgary Stallion Show

 the EditoReferring rons in the show-ring that have wit apprar moce , Mares and geldings over 19001901190219031904190 mdividuals to put into harness themselves. thesso 15 h , and not over 15

how at Calgary, which took place on the thh
th and 6 th of $A$ pril last, you say in your issuly

- The six Hackney stallions on exhibition put were very distinct, the fine, light harnessy fellow, less quality. It was iust the Eastern and Old Country shows, the horse of heavy body, strong neck and heavy bone being supplanted by a finer type. We far for the con-
sequences of this pursuit of fiumeness. It savins oo muluch of the thing that has made so many weedy Thoroughbreds and Standard-breds. But The most sylish horse won, and he was "illiam He is nut the type with sulstance, but he is a fine, proud goer, and won his laurels at the 1 an minion last year in Winnipeg,"
1 would like to call Vour" attention to your. remarks on the Hackney stallion which thok
tiist tirst honors in this class, and also sweepstakes.
it seems a pity that the Eastorn nod Old Coums judges. who are in touch with the finest typoc Hackneys that cominand the highest prices in thi World, should not be of te same opinion as the "xpert judges of the "Farmer's Advocate." (hue your judgment of Agiity is his age. This hor was only two years and nine n.onths old "hen Shown, and surely he could not want in substance When he was able to be easily placed at the top trained in England and fuily sorted Hackneys caused the Eastern judges to remark that he was an outstanding winner and that they did not know where to fault him, and I know that it was


How Cement is Used in Big Bridge Work.
The Main St. subway under eight tracks of the C. P. R. Winnipeg. The new C. P. R. hotel in The prevailing opinion that these judges were weil a horse up to weight that could material, and versal satisfaction, which, I am soriy to say, has days the horse which is inequired. But in thes not always been the case at calgary shows, and a good price is without doubt the harness hors was glad to see that our Western horsemen hived by their enthusiasm when this award was hey, showing plenty of substight kind of Hackwith style and action, and not aiter a carriaga built cart-horse which fetches only a slave pricu speed not being the principal point looked for in a Hackney, I don't think with you that there weedy as you say so many of the Thoroughlreds It will be a long time before we will have to complain of quality and action and that finn noss which you seem to be so much afraid of stal-
hions with thise qualites are much nerded to stamp out the plugginess of our carriage-hred
brood thares, so as to enable us to raise hienclass carriage horses, which letch a great "eeal more money in the big American markets to-tay
than any other lass of commercial horse. [Note-In reporting the sale, our repres-nia What he cons opportunity to call altunt ion to part of Hackney breeders, namely, to favor s'al-

## The Shetland is $a_{\perp}$ Favorite.

osstlyy the Shetland is absolutely the purest-bred Ture-bred, which is not invariably the case with er, is so sod off as such. His diminutive size, howross that the detection of foreign blood is not often that can be picked up in the island are uncortaminte ny such a taint. The Marquis of Londonderry's strati verienced mannaver finds it taxistence, hut even his ox most to keep the size down, as Master Shetlond io posed to grow too big when indulged in respect of good feeding and housing. The head of a Shetland is very
delicate and fine, even for an animal of his inchas: hi short neck is smanll at the setting on of the head, bu short and straight. His back is short, ribs well sprung, and quarters very big compared to his size whilst his legs are ffat and feet rather round. Ten hands or a Butte undor is the average hatght, but they are they realize a good doal of money if wall whe The prevailing colors are bav, brown and dun, but a casionally a black or skewbald is met with, and ver $y$ indeed a whit
In Manit oba until recent years only few of the breed in recent years at the Hartney Agricultural Soclety'

The Height of the Hackney
Hackney who are averse to
increasing his increasing , his
height $;$ true Hackney,
say they, should they should range 15 hands he
height or or thinal wa
the
 the se gentle
men lose sifh
 hanged since he Hackney fis sl flourished
when tis duite mainly consisted in
$n$ i,
carrying
master and often misress, too, on
risits to marets anc hieight was im ab has 16 hand 2 in., sound the Hackney can produce; therefore, is it not more profitable to tha hreeder, and :nore in the the old type, and at the same time to suprly demand which otherwise is met by the foreligner than to alhere religiously to type and to breed
nothing but 15 hands to 15 hands 1 in. hirgew show which, should they not prove sonsationa show animals (and there are not many of these A few days aro I had a conversation with markot known London dealer on the state of the hors thace: 'Trade was never better,' he said, 'it is to find . horses is hands 3 in. and over, with action sell them. "hat height as much or as fast as we should like see, or indeed as we supposed to be the case, it following figures if we take the mare an the la wses at the London Show for the past six year as representative
entries in the big class outnumber those in the 15 hands to 15 hands in-that was the orimina Still, when we see such hosses as the champion Diplomatist, Copper King, Forest Star, Walden Squire John, and windle Swell, and such mares as Knowle Belinda, the reserve senior champion,
Mr. Jay's lovely mare Knowle Halma, and Mr. Evans' two-year-old Allixaus (the three latter, believe, all upwards of 16 hands), all proving incontestably that the Hackney can be bred big without any loss of quality or action, we "

## Points on Draft-horse Breeding.

A writer on the subject of breeding Shires, referring selecting breeding points to be observed in mating an as pertinent to Clydesdale, Percheron and Suffolk breeding, generally speaking, as to that of Shires
the largest stallions do not alwava get the
 breed from a stallion whose sole recommendation great height at the withers, but which lacks a propor-
ionate amount of substance and weight. The thing to tionate amount of substance and weight. She thing to a big framework ; these are of more importance that mere height. For breeding purposes a big-made bu not over-grown stallion is required. There are not a few horse-breeders who are not able to distinguish be tween a stallion that is built on big lines and roumily greatest importance to the successful breeding Shire horses that the one should not be confounded with the other. A big and roomy stallion of eymmetrical get big stock when suitably mated to mares of the right description. On the other hand, an overgrown stallio which is tall merely but lacks scale, and is not built on roomy lines, will more than likely get foals which When aiming at breeding $S$ weighty as possible, it is essential that the mares should be btg and doep, and that they should possess a deal of roominess. There must be plenty of depth and width that the mare is sufficiently big to afford ample room to her unborn' ofsspring. If the mare is not roomy, and the growing foetus will not be so great as it might be impossible. Besides looking for plenty of depth and impossible. Besides looking for plenty of depth and
width of bady in the brood mare, the breeder should also see that the points of the hip bones are wide apart; the more widely they are apart from one an-
other the better. As a matter of fact, it is ulways
found that in a roomy Shire mare built on really big lines there is great width between the points of the hipjoints. Narrowness between them is highly objectionable in Shire mares intended for breeding purposes. It should further be seen that the hind quarters are not
too short and compact in the brood mare. The quarter of the Shire are at best not by any means remarkable ior their length ; on the contrary they are, comparatively speaking, shortish. It is certainly not desirable to breed from a mare whose quarters are particularly short should be as roomy as they can be and they should, possess plenty of development. Taking a rear view of
the mare, she should show great width; the broader she is the better, piovided, of course, that symmetry of build as to the importance of plenty of breadth in the brions mare when breeding big and sizeable Shire stock. Breadth of body is due to long, well-sprung iribs, and to a large and wide shape of the pelvis, and these tw
points are, therefore, of importance, and should rectiv points are, enorefore, of importance, and should it
due consideration from the in young Shire stock, it is very maximum an should be pat to the horse ent they produce their foals at an carly date. Early foals generally grow into the biggest horses and develop the
most size, and the breeder will do well, therefore, to be carly in the spring. [Note.-1t is well to plan to have foals come (in)
Western farms either just before or right after the main work of seeding is done. On the range other rateon
will govern. It is always an advantage to work ti in-foal mares, provided such are in charge of carcil
men.-Ed.] of a young mare does not krow so big as her sulter
quent foals, and when a lrood mare buromes wry her foals are kencrally
are worth noting when fillies for breeding purne. prime. Loss of size may
foal of $a$ young and it
,reeding purposes
errain stinting
velopment if she
$\qquad$
with by her groeding th and development being interfered io she is well developed, of satisfactory circumstances. and at two years old without can well be put to the horse of ultimate size. Under these circumstances it is, howpointed out, that the in-foal filly should he liberolly treated in the way the in-foal fily should be liberally better than young fillies that are not carrying foals. When a filly is backward and lacks suffcient size, then it is not desirable to breed from her when she is two
years old; in her case the breeder should wait till she years old; in her case the breeder should wait till she
is three years of age before putting her to the horse. is three years of age before putting her to the horse.
with a view to breeding as big a foal as possible from a young Shire filly, it is best to breed her to a mature stallion not less than six years old. By mating to gether an immature stallion and an immature filly, the
progeny will generally be smaller than when the siro progeny will ge
a mature horse.

A. B. Macdonald, New Oxley, Alta.

Manıger Glendarry Ranch. and ex-president of Westenn
Stock-growers' Associal ion.

## How to Throw a Horse

horse, there is no better way conceit out of It certainly requires pluck and deternination to horse is virtually conquered for pood and all. do this, put a good strong halter on your horse take a strap with a ring in it and buckle it round the horse's off fore leg below the fetlock joint take a rope eight feet long and tie it to this
strap ; place a surcingle round the horse's body take up your position on the right side of the horse, bring the rope over the horse's back from the off side; take hold of the rope, and pull his
foot to his body; take a firm hold of his foot holding it in that position, then take hold of the horse's halter with the loft hand, pull his head to you and press against his body, with your elbow, using the words "Lie down."
The majority of horses can be thrown in way in less than a minute, while others, of course, might fight longer. As soon as the animal has been thrown, take the rope that is underneath him, bring it under the surcingle and pass
it through the ring of the hallur, and lack und the surcingle again, and thus you have the rope in position to bring his head over his shoulder. Make him put his head on the ground, and if he makes any attempt to get up, pull his head up ing. This will give him thoroushiy to under-
stand that you are master.
Once a horse real izes your power over him, he will do almost any-

meeting, placing before the stockmen the details of the arrangements entered into by the different breed associa tions of Canada, with the object of consolidating the
many different records into one central body, with one separate book for each breed of stock in the Dominion. This subject has been fully treated in these columns be fore, but Mr. Hodson wished to assure the Territorial Stock-breeders that their interests would be carefull saleguarded by the officials appointed by the breed asso
ciations and the officer appointed by the Dominion Gov ernment, wha affixes a seal upon each registration cer tificate, to certify that the Government recognizes the pedigree of any particular animal.
when the organization of the Mr. Hodson said that finally completed the different provinces would be represented equitably upon the National Record Board, ac cording to the membership of any particular breed asso annual meeting of the breed association in each prov ince. Mr. Hodson also stated that in future the grants to exhibitions in each province would rrobably b int d acorg to the proti ansig forn the ing of animals from that particular province. With re
gard to recognizing foreign certificates, that would with the different breed associations.
HON. JOHN DRYDEN

Hon. John Dryden, on rising, said that although al ways a Canadian, he had never been able to visit the extreme West, but while he had been devoting himself to
the interests of Ontario, he did so in the broader sens of working for all Canada. The interests of Alberta,
 ada he wished to do his utmost. With regard to the Dominion Shorthorn Association, he assured the meet ing that in the past his position prevented him taking
an active part in that association, but in the future he an active part in that association, but in the future he
intended to devote more time to the interests of Short horns all over Canada, and to do so he would do his best to have the breed fostered in the West. He would exercise his influence to have not simply the money actually due the West on the basis explained by Mr.
Hodson, but would try to get more for the West, with the object of helping the breed in those places where most help was required, and where most good would re beef in britain
In studying the conditions in the British ports, Mr
Dryden found that the Old Country market-fresh beef from European ports, frozen beef from the southern countries, and chilled beef from the States. Over there there is nc sentiment in the beef trade, but beef sells solely on its Mritain, it is simply because it is not of the best quality; therefore, our aim should be to produce the best,
and the fellow who would not try to produce this must how to produce the best befe In order to produce this best quality of beef only
beef breeds should be used. He did not know wher the dairy-bred yearlings from Ontario had gone wher had been told they were going out west ; if so, the scople here probably had some experience with such
stuff. Having decided to use beef breeds, Mr. Dryden begged his hearers not to use beef bulls simply because they were registered. Too many bulls are being ussed
hoth here and in Ontario that should have been castrated. Using bulls simply because they are pure-bred
is like trying to build without a plan. It is all chancos is like trying to build without a plan. It is all chance.
Then in order to get the best out of cattle they must Then in order to get the best out of cattle they must
never lose flesh from calfhood to market. As an er nevele of what might the dood he cited a case of a two-
arar-old steer which sold for six cents per pound, and lotalled $\$ 102$. Another animal, a bull that he liad were animals that had been kept going right along, and was worth more than meat, a big, coarse, fat anima was porth more than meat, a big, coarse, fat anima
was popular ; now things are changed-it is meat w
want, not fot. Applying this principle to want, not fot. Applying this principle to range condi
ions, Mr. Dryden believed that the practice of puttin. "attle out to rough it would eventually develop a clan the meat would in frame, but not early maturing, an The meat would not be tender and juicy.
With regard to shipping alive or dead, it was the but he believed it would be more profitable to kill her as it would save the shrinkage which always result: Irom shipping alive. As a comparative stranger, Mr
Dryden hesitated to tell the stock-growers of the West Hoyden hesitated to tell the stock-growers of the West
how they should do, but he believed they should finist their cattle better; they should endeavor to make 3 w .
catile into six-cent beef, rather than 600 cattle int." The embargo, Mr. Dryden believed, should the w... moved, not that all cattle might be shipped, but simpll
that everyone might be at liberty to ship as he lik. and to buy where ho liked, so that one could wet wh
how wanted no matter where. Should the emblarko mon Tonughter. Out of tiverpool, where Cana Citian natlle

growers was this: Would it not be bettor to raise in improve upon the methods of cattle raising followed methods of feeding, even if we must handle a smaller number.
In concluding his address, Mr. Dryden read saveral letters from the largest shippers, all of which emphasized
the necessity of better finishing and improvement of quality, but he said the beef-raisers should not let the question rest there. This matter should be ruminated, ior no one can affiord to stop short of attaining the the necessity of improving in quality, of developing early maturity, and of adopting more intensive methods of feeding.

ANNUAL MEETING OF THE TERRITORIAL
on May 1 the-breevers Association.
On May 16th, the Territorial Cattle-breeders' Asso-

R. G. Matthews, Macleod, Alta.

## secre ary Western stook growers Association

gary. The President, Mr. Peter Talbot, of Lacombe not being present, Vice-President. Johni A. Turner son, read his annual report, and submitted his fete statement, which showed a balance on hand of $\$ 590.48$ This report and statement was adopted.
The meeting being thrown open, Mr. J. Caswell, of Saskatoon, rose to protest emphatically against the Practice of outside cattlemen flooding Calgary with their how and sale. In his opinion the taking advantage of Conditions secured through the association by outside breders, was a breach of business etiquette, but no acliberty to sell where and when he can. After considerable discussion, it was moved and
seconded that a new organization be formed, to be nown as the Alberta Cattle-breeders' Assocliation.Trerders in the new Province of Saskatchewing be permiter to entert stock for the 1906 sale, should they
not te sufficiently organized to hold a sale im their own (In motion by Hon. Wm. Beresford, scoonded by Mr. ander three years of ago would the eligitbe for entry at The annual sales unless born in Alterta.
The election of officers for the ensuing year resulted comblows - Hon. President, Mr. Peter Talbot, La-i.e-Previden1, Hon. Wm. Beresford, Calgary : Second isce-I'resident, Mr. Jas. Sharp, Lacombe. Directors-
N. Palmer, Lacombe: Aberdeen-Angus, Some princirles of brereding
After the election of officers the Hon. John Dryde the oattle-breeders on the subject "Some Principles a Breeding." In his observation he had noticed that the best breeders have a very definite object in view, bu
with most of our breeders with most of our breeders there was too much hap were certain underlying principles which govern the transmission of characteristics, and it should be our object to understand these principles. Advanced scientists now claimed that the principles were so we horns off cattle tained, the breeder must know as much as possibl about these preder must know as much as possible a first-class carcass on the tlock and the pure-bre herd is the means to this ond. This being the case the ideal steer should be fixed in each person's mind Such a steer is of sufficient size, and capable of being
matured and finished at an early low set, strong on his legs, not too fine, with a certain must have the inherent power to lay on flesh. He must naturally just make meat of all his feed.
To produce such a stor herd of females. Never shrink from a cow because she is registered, nor buy a cow simply bscause she is regis tered. Study female character, and get cows with good appearance always associnted with goominine motherly upon these females use bulls that will remedy any de lects in the cows, and always have him pure-bred. One essential requisite in the bull is prepotency. His chiel them broad, thick, and low, with his offspring. Get culine appearance, free carriage, and a mild trong, ma dolent disposition. Then always see that the bull ha constation. After a suitable individual has been found they reveal the intensity of the beoce only valuable as and disclose to the reader the characteristics animals ancestors of the animals to which they belong, and such an understanding of pedigrees can be gained only by With regard to it as his opinion that it did not Mr. Dryden gave whether an animal is born on the west side or the $e a s$ sue of the Atlantic, and advised his hearers not to be WORK OF TERRITORIAL DEPARTMENT OF AGRI CULTURE.
Hon. Wm. Elliott Commissione of the address by the N.-W. T., before n meeting of stockmen in for the Hall, Calgary, on the evening of May 17th. In open since its of data upon ralinfall : sustenance, inspection collectio agement of hospitals and charitable institutions : in spection of the Territories, with the object of eradi cating werds, asssting gram-growers, by experimenting grades : the enrollment of stallions kept of diferen purposes ; the supervision of brands, which includes the listing, registering and allotting of over twenty-fiv housand brands. With regard to the future allotmen of brands, Dr. Elliott suggested one of two differen arated districts in the two new bravinces in widely sepleave the work to an inter-provincial commission
Other duties of the Department are the destructio


The Round-up. Horses are Displacing Cattle on Many Parts of the Range
tural societies (distributions of grants, appointing
expert expert judges, etc.), organization of farmers' institu
comducting stock-judging classes, co-operative exp mentations in connection with agricultural societies
couragement of agricultural libraries With regard to the future, Dr. Elliott expressed he past would be continued under ant as conducted in trusted that the new Province of Alberta would soon be suggested suggested the practicability of providing for shor
practical courses in stock-judging and other agricultura qubjecta.

THE DEVELOPMENT OF AGRICULTURE was the subject of Hon. John Dryden's address at the Wednesday evening meeting. In introducing his sub-
ject, Mr. Dryden called attention to the great difficulty in organizing and developing agricultural resources, on account of the extensiveness of the country and the isolation of those engaged in agricultural pursuits. Bu
this work must be done because agriculture is the grea basis of our national wealth, because the products
the farm represent so much new wealth, great majority of our people are engaged in it, becaus the farm is the best place in which to bring up a family and because all other industries depend ufon its suc coss. In the construction of the governments of the new the strongest positions in the government should be de voted to the interests of agriculture.
One deplorable feature in connection with the de poses by those who have common interests. cultural interests require a directing head, The agrihead should always be the Provincial Department of Agriculture. It is more closely in touch with the re quirements of its territory. It can best look to the if market expansion to the Federal departments As to how this end is to be accomplished, Mr. Dryden strongly advocated more general education upon
relevant questions, Legislation he did not believe in elevant questions, Legislation he did not believe in learn that a thing is good before it will be adopted. Co-operation among farmers and stock-growers is a force Chat might be further developed and employed. As a result of work of this kind, figures from the Bureau of
Industries of Ontario were read, showing that after ampaign of agricultural education and adoption of operation the output of cattle, horses, swine, cheese and grain Increased in the seven following years by one hundred per cent., with
land under cultivation.
Following Mr. Dryden
Albert, gave a short resume of his experience in hreed ing up a herd of polled Herefords from a sport polled bull. In this work Mr. Boyd had corroborated the
theory of scintists, as expressed in Mendel's law, a theory
digest
ture.
veronution was then passed, asking the Dominion red stovk, and to prevent the incoming of Mexican

Another resolution asked that the Government con-
sider the advisabilitity of improving the abattoir and sider the advisability of improvin
cold-storage facilities at Birkenhead

On Thursday evening, the last day of the Territorial
dattle sale, Mr. Duncan Anderson, Rugby, Ont., and Mr . N. Willing, Chief Weed Inspector for the Territorie addressed the stockmen upon horso-breeding and weeds,
respectively. Mr. Anderson of solecting brood mares with hard, flat bone, sprincy pasterns, sound joints, and broad, strong feet. With these mares should be a stallion of good size, well
middled, with proper legs and clean, true action. With middled, with proper legs and clean, true action. With
regard to raisinge young horses, Mr. Anderson is " strong advocate of the practice of keeping the younh
colt's flesh on right up to maturity, never allowing the
weanlings or yearlings to get down in flesh or cease to weanlings or yearlings to get down in flesh or cease to,
grow. Mr. Willing illustrated his lecture by lantern slides, which assisted
of the noxious species.

## Predeterminng the Dtx of Animals

## From Berlin comes the following little press despatch, which reveals nothing new,

 the ideas of the late Dr. Schenek, Vienna, isupported by others :
bThe question of the predetermination sex received much attention at the medical gress which has just concluded its session at
Wiesbaden. In a paper on the sibliject, Dr. Wiell a celebrated speciahst, of Schwallach, asserted
that the class of food caton hy the parent plays a great role in deter
Experiments made Experiments made
cattle, show that
> bonaceous element

seny is produced ; if the ull
dominates, there are more fenc.un whent proonstant struggle for ascendar as i.clared the specialist, can piacte
ince of influence on the one or th Realers of the Vienna Professor
claimed to have helped, by prescribing his theorenvailed, and which, failing male heirs, would have gone to comparative strangers. If the heories can be made operative in the lower ani0 become operative in the human be expected a remote possibility

## Our Scottish Letter.

The British Board of Agriculture and Fisher res has become a very vigorous and aggressive institution. It kas embarked on an investigaand there is every prospect of a lengthened and exhaustive enquiry being the result In connec tion with this, the Hiphland \& Agricultural So ciety has come to the aid of the Government and while the Government is prepared to and £5,000 on the project, the Scottish National society spends $£ 1,000$, if need be. The Government experts will, first of all, endeavor, by independent enquiry, to test the lindings of Professor Bang, he eminent Danish expert, as to the identity of the bacillus causing abortion. For this purpose
it will not be neediul at the outset to kill any It will not be neediul at the outset to kill any
cows-only to deal with the ejucted fotus. There after the work will be more exhaustive, and a farm will likely be secured, at which the investiissue. This is, perhaps, the to a successful scheme yet put forth by the Government Depart ment, which, under Dr. Stockman, its new vetermary head, is destined to become a real live institution, doing great good to the country.
The Government is also up seriously the question of glanders in horses This disease is, unhappily, pretty pievalent in Glasgow, and this very day (12th of May) a deputation irom the city has waited upon the with taken to stamp out the loathsome diseace which, like swine fever and sheep scab, should country. The hotbeds gain a footing in a clean old, worn-out stables in which sufficient light are heat are not found, and hence the abundance disease germs lurking within them. The country
outside of these town stables, has no record of outside of these town stables, has no record of
this disease, and farmers are being warned not to encourage the introduction of horses from the
towns into the country at the present jimeture. Glanders may be long latent in an animal and do no injury. It is these latent cases, however,
which provide centers of infection and do all the mischief. By means of the mallein and do all the mischiel. By means of the mallein test glanders tubrculsis has been kept under contol in Den-
mark by ineans of tuberculin. The aim of reformers here is to have the mallein test inade
compulsory.
The agitation in favor of amendment of the Act, 1896, so as to admit store cattle for feed-
ing purposes from Canala proceeds apace. De-
inonstrations have monstrations have this week been held in LonParliamentary action along this lime. So far as the commercial interests involved are concerned the demonstration was imposing enough, but the evident. The amendment of the Act is desired in scotland, and Norfolk and part of York, in tidude of farmers is either actively hostile of
supine in do not care a pin-point whether
the Act, they have, int they do not hnow what they Two Canadian wentlemen addressed the meeting teresud in the ('anadian cattle trade. Mr.
Simpson told the Minister of Agriculture. Mr.
Followec Fellowes, that the present policy was enriching
the shipping conbines and buyers, while it was robbing the poor ranchers. Ine 'rew a harrow-
ing. picture of the condition of cortain ramcherc effectually shut out by thos gentlemen who imagine all they have is suflicient jusification for
the methods by which it has been securect. Mr.
Simpson's words wero Simpson's words were useful, affording first hand
evidence of the state of fowling among the v.-W. man who spoke was Mr. Gireenwoot. He was vehement, and denouncod all those who , lid not
take his view in sommita severe terms. He
wom
 the matier is that no steps............ hy this
Covernmunt to hring atont Covernunt to hring atour Mo......n of the
$\qquad$

A CiOss that Works Weld in Shortherm breeding, Scotch Upon Bates!
> ailking tribes of Shorthorns, says the following place in the kien appreciation of an enviabie a milking type of Shorthorn. Bates blood atracted some of its chiefest supporters in the preciation of the value and sithife a proper appreciation of the value and stgnificance of good
nilking cows, it must be added that in no sense have breeders been unmindful of the fact that popular fancy demands something besides mere pose animal, and the atternt to is a dual-puremmingly contradictory characteristics as be and milk production, has not in every case been success. Beef in the bulls and milk in the brieder, and eversone who has a the Shorthorn is no to carry out will understand that, while it siderable impssible to achicve the one, there is conbreeding bulls, it may be repailded ather. In light of an axiom that the man who can most readily breed beef is most successful. That is anima's imbued, if not fully, at least strongly to the country some of its best bulls. The fiven duction of such bulls as Councillor bred by her Tate Majesty the Queen, and Loyal Squire, was sire of the famous bull Prince ficter, which doubtedly imparted that width and thicl ness uli "ell as wealth of fiesh, which the bull-breeder de One of the great troubles has been that many breeder, has neglected the milking success as a bull cows. Such negiect means ultimately the ruini a breed. Inferior milking qualities has some of the following sequences: Loss of fecundity and man can afford to overlook tho , and no stork man can afford to overlook the atrophy of the
maternal function in his cows.

## A Profitable Feedstuff.

There is no more healthful feed than oil meal animal in fine condition, with a pliable skin, at ony, sleek coat and a good quaility of flesh woul at beneficial effect on the digestive tract as has quantity on hand to deal should always nave a over judgment directs its use. $A$ sir all quanti: fattening and does not make har, but as it is lowance should always be limitcd. It is with
fattening steers and with sheep that oil meal pounds can be given daily in connor thre prict feeds. Larger amounts may be used, if At the oil mills, after crushing the seeds, the first the crushed seed is heated and in the another, the mass backs, whith are piled one on pressure to extract the oil. The residue, aiter hard slabs or cakes, about an inch appears as constitute the oil calises of commerce, and in thabs ers in other, countries. The unbroken by farm. roforred for chipping, because it is the most Cious of adulteration, knows that such cakes are were produced. When seed from which they ake is reduced to the size of small hickory, the as " nut cake." ${ }^{\text {a }}$ In , the material being known isually ground to a meal at the factory, and is y direct pressure from the ground flax seect ared oused alove, the ly-product is known as $\%$ as In the manufacture 1 . we and is crushed and hew-process oil meal, . 1 . in the production of old-process degrees w.eti, il crlinders while warm is placed in large aphitha volatile petroleum and oror it the alinder. Naphina dicout at the bottom
 the tcam is into the per has

meal, and put a level tablespoonful of it in a
tumbler ; then add ten tablespoonfuls of boiling hot water to the mieal, stir thoroughly, and leave to settle. If the meal is new-process meal,
it will settle in the course of an hour, and will leave about half of the water clear on top. Old process meal will remain jelly-1ike. " old-procnss , the feeding trials. Hesurn in Feeds an Feeding, that for growing calves oil meal may be used a tablespoonful at a feed, gradually incr, asquantity of oil meal daily is also a splendid correctiveness for brood sows at farrowing time and serves to head off constipation. In another ment of this great foodstuff out of the countre ment of this great foodstuff out of the countrs
Such should cause our stockmen to think.

## Farm

Making the Farm Pay Wages young farmer, especially the one who is starting on himself and teams, not to speak of interest on the capital he may have invested. Nor are these young
farmers at all mistaken in their arithmetic; their farms are actually not paying them wages.
Any keen observor who has followed the agricultural cecall instan"es of two farmers berinning operations side ly side, on farms equal as to fertility and other agricultural advantages, each man having about the same
amount of capital, each meeting the same conditions and circumstances, and each, apparently, doing alout
the same amount of work; yet, while one of them at vanced steadily in the scale of woalth and prosperity the other scarcely held his own. Why was this? Somewhere, something must be wrong, for, logically, where causes are equal the efiect
will also be equal ; and since the two men had ecual advantages in every respect, the inequality in the re methods of operation and general management of re-
sources. But, as farm work consists of so many and aried operations, it would be impossible, within the
limited scope of one artille, to point out specifirall the various cause $\qquad$ We might, however, by reviewing some of the prin he farm, point out where and how the small farme on the capital he has invested. We will suppose the case of a young man just start
ing on his farm, and grant that he is equipped with the nece sary machincry and horses to work the land
with, of course, the usual contingent of pigs, chickins ows, etc. To that young man I would say, adopt for
our motio at the very outset " Economy, thoroughness and you will need to exercise the only a small cal matter of expenditures. You may have a few dollar
to invest, and while it is unwise to keep surplus money lying idle, you should avoid sinkint, it in expensive im-
plements, or little "odds and ends," such as you night well do without. Rather let your purchases in thest
lines be governed by what you must have than thy what you would like to have. Remember that machinery will not yield you profit on your investment unless you to pay yon more interest than if invested in a new
fangled cultivator for which you have but little use But of such implements as you do need, it will pay
you to get the best. Then in your farming oper fors ber work. They may need to be conditioned some weeks
beforehantd, and they will need care while they are being worked. Don't expect your horses to do well if toss them their feed, and after breakfast hitch up and
drive them into a slough to drink, on the way to the firld, to save watering them. When you begin plowing, have your plor in good
condition. If it does not work right, better take a day and
a straight, deep, even furrow. I I have known men who
never thought it worth while to do a good, smooth iol at plowing, who turned crooked, uneven furrows, and
whin the plow came out of the ground, just skipped the
 the secd, and in doing this don't forget to use the har
rows. row so much better crops than his neichbor inst acros he road, replivid. "When I send a man out to th
ield to harrow, I toll him to harrow the tand twire
many times as he thinks it should be harrowed. The
then he has done this I toll him ho hac how hen he has done
seed grain. See that it is free from the seed of nox-
inus weeds, and if there is danger of smut. treat it to
n solution of bluestone, or formalin. aclined to be dry, the seed should be puts good depth with a drill. The more adverse the season, the more need for thoroughness in putting the crop in:
and the harvest will pay you wages for the extra work, hnd the harvest will pay you wages for the extra work,
$\qquad$ and the proceeds added up, you find there is not enough to pay your summer's wages, don't become discouraged, away and work on the railroad next year: just say nothing, and haul manure. Try it over again next ear, and endeavor to make these partial failures the The care of implements is another matter that should claim attention. Don't leave your plow or drill just harrews out in the grass at the end of the field for un-
hatren suspecting cattle or horses to walk into and get crip-
pled. The place for implements not in use is under pled. The place for implements not in use is under
the shed, and if you haven't a shed you cannot earn money faster than by building one, even though it be huilt of poles and have a sod roof. It will pay you shed to put them under. There should also be a conwagon when not in use. And when you remove the and rain to warp and blister, and inquisitive calves and colts to paw at and dance jigs in; have a place fixed
alove ground and under shelter to set it. have suitable places for all your implements, and keep those implements in their respective places, I do not
advocate the habit of "pottering around," of always being too busy with endless "odd jobs " to do any ubstantial work; yet I believe that any reasonable ef-
orts you make to

Are Roots Indispensable in a Rotation or to Stock-raising.
English Farmers' Club is quite interesting, owing some of the remarks the Professor of Agriculture mak incnt the value of roots, particularly turnips. On this British Athantic we are accustomed to accord ultural practice, especially in the matter of the use of eeding stuffs, cakes, etc., fertilizers, and the breeding of stock. The following excerpts give the gist of the lecturer's remarks, which are worthy of thought "When root crops are fed on the land they are co producers of fertility cannot be maintained.
the fact that swedes and turnips make their解 nitrogen ever lost sight of. They collect and hol liberated for the use of the, and tho nitrates are then and no doybt benefit the clover crop: but according to the Rothamsted rotation experiments, produce no effect ." Having cultivnted fourth year.
ars and watched the cultuvation of great numbor
 in this respect to greatly over-estimated. It is inferior land in a very foul state for the next corn leavos the " It has heen saide that grain crops are not great users of nitrogen, but great wasters of nitrogen
This statement is after the grain crop has become fact that it is only nitrogen that nitrification becomes independent of soil great waste of nitrates during the fallow
he land belng prepared, provide voursmle with gooil

Roan Conqueror (84519)
Champion Shorthorn bull at the Royal Dublin Society's Spring Show, 1905
rofitable than eflorts made to acquire more. Ever dollar's loss prevented is as good as a dollar gained. Get the best to start with, then raiso them-don't mere1y let them grow up. Sce that they are well fed and "gularly, ard they will pay you wages for all the extr care you give them.
if you are raising pigs they will need special atten tion. A pig, if not judiciously fed, may easily con-
sume more grain than it will pay for when sold on the market. do not despise your garden and "butter and
And
cggs" products. These things may seem insignificant, eggs" products. These things may seem insignificant,
but with proper attention they do a great deal toward topping the numerous leaks through which your earnmgs yearly dwindle away. Indeed, with a little extra
are they may be made very important sources of inIn short, if you are to succeed as a farmer, you If you are to succeed you will need to exercise just as much care and diligence, and possess just as great a manufacturer.
The man without ability, without energy, without p-to-date farmer If you are lacking in these qualities, and if you are un-
alle to overcome the supinen wiss which is at once the
prim.

## Do You Want to Sell Your Home?

's Spring Show, 1905.
of roots. Hay is an excellen winter food, and at times it is - A good stock of hay is always a valuable asset on any farm, and is much more cheaply produced than forin of cows, heifers, sheep, or horses, that they should he retained on all farms. Farmyard manure iy un in all seasons. But roots are not necessary, oxept certain casos, and in very moderate quantities. I have cortain cases, and in very moderate quantities. Ti have
oten kept my datry cows through the winter without
giving them a root. - Roots are not so much indispensable as useful ${ }_{\text {stances. }}$

## Lime

The excellent results produced on some soils by element of plant lifo and the recent discoverios an nected with the activity of nitrifying soil organisms have hepred to throw more light on the reason of its usefulness. It corrects acidity in the soil, warms and opens
the soil up to the sun and air, and. as an base, is essential for the nitrification of the organi matter, as well as being necessary for the transformathe assimilable form of this ingredlent.
provided with this element that it would be a useles expense to increase the stock by artificial means : but A crop of turnips, tops and bulbs, takes pat th
 vortant quantity
Lime is applicd to the soil direct, and in smalle , mer cent fertilizers : thus, bone meal contains about lar 40 cent., superphosithate 20 to 25 per cent., bast
45 per cent., wood ashes 30 to 40 per cent.

VERTISFMENT SEE RATFS UNDER THAT
HFADING IN THIS PAPER ADDRESS FARMFR'S ADVOCATE APA AND HOME MAGA
ZINE, WINNIPEG, MAN
good in a climate such
have in Canada.-Ed.]
roots, but relegate them to a less prominent position.. Man
gel is a most useful sel is a most useful crop in the
spring and early summer ought to be more widely cults vated. A small area of well cultivated roots is necessary
but they should be stripper and folded over a much wider area. Swedes should be at
least half carted on to neigh-
boring corn stubtles and boring corn stubbles,
folded on them with hay and cake, with a view to bringing the land into corn again. In
spite of the low price I would recommend a large
area of grain crops area of grain crops,
least of at
is alable crops.
Clover is a valuable plant, and hay preference to so large an area ond they are better fed sparingly under any circum-


This, of course, does note.-

[^0][^1][^2]$\square$

$\qquad$
$\qquad$$=$
$\qquad$
$\qquad$

The North Dakota Experiment Station's Work with Clover. othy and clover seed with a grain drill was co
menced. An eighty-acre field was sown to whe with the drill rows of grain running north and south. The grass sced was then put in with an was allowed to run very shallow-an inch and half or two inches deep-while seeding the grass,
To reguiate the rate of sowing, common barrel salt was used, and proved very satisfa tory. The
mixture, as sown, was eight pounds of timothy seed, five pounds of red clover seed, and four pounds of common barrel salt per acre. After a drills in such a thrifty growth that the drill rows could be traced by the eye at some distance. The growth of wheat was heavy, vielding over twenty bushels of No. 1 Hard grain per acre, and the
stand of grass was exceilent. This eighty-acre field produced an average of a ton and a cuarter of hay per acre the next season after the clover was seeded.
In 1896 a twenty-acre field was sown with
larley and cross-drilled with limothy arley and cross-drilled with timothy, red clover
and barrel-salt mixture described above. grass came on well and made an unusually fine In 1897 timothy and red clover were again was used as a nurse crop. The grain was crossdrilled after the barley was sown-in the manner described for the previous season. Instead of
using salt to mix with the grass seed, coarsely ground barley was substituted. To prevent the wind from blowing the seed away, after it had dropped into the hose, a wind-break of canvas about eight inches high was placed around the
frame of the drill just back of the force feed. The drill did excellent work with the ground barley and grass seed mixture. The change from common barrel salt was experimented upon by reason to the grass seed, as it had done during the premuch more moist and humid when the seeding took place during the seasons of 1895 and 1896 and a mixture of clover and timothy seed with grain drill has many advantages over sowing it broadcast, and the trials made at this station gree of assurance that a "considerably greater deee secured than the broadcasting method grass wil Prof. Shepperd says: "I have carefully station the fields of grass and clover upon the past eloven winter college fields after eack of the a single case of clover or crass plants having heen hraved or lifted by frost. (irass, clovers of
different sorts, and alfalfa plants, are frequently
destroyed destroyed by having a shallow coating of ice over was first nituracted to this point by having seen was first nttracted to this point by having seen
the distinct and clear-cut outlines of dead blue grass and "hite clove where a skating rink had
been located the previous winter. On another occacion a winter ioad was formed an annther ing packed the snow into ice the widthi of the sled tracks, and wile the road was abandoned
before the snow and ice melted away, the opening before the snow and ice melted away. the opening sike and white clovers, together with alfalfa, tim-
othy and red top. duad where the ice had formed, and in prime contition on all other portions of
the plats. Browe crass and the weed quack the plats. Brome crass and the weed quack
grass alone withstood the adverse covering of
 No specricic tian hlos been made with different quatitities of seed, but satisfactory stands have
linen secured by secding it at the rate of fifteen pownts of clower seed per; acre. A mixture of
live pomms, of red clover seed and eight pounds
of timothy, has given a mixture of from a haif of timety, has given a hixture of som anmir
of the mixed crop. Had the second growth
clover been saved for hay, the total yields would ave been a saved for hay, the total yields would lover.
Red clover grown in this district seems to fil hell and the lirst growth bears more seed than tllinois. Manitoba farmers have noted the sam with clover grown here, as compared with their The and two-thirds of hay as a crop, can scarcely be considered a discouraging result. I am of the potation effect upon grain land in grown for its Valley and similar portion of the State, that a nixed crop of timothy and clover is as economi a production as can be found.

$$
\begin{aligned}
& \text { Referring to the breeding of hardy varieties } \\
& \text { of this valuable legume, Iruf. Shepperd says }
\end{aligned}
$$

$$
\begin{aligned}
& \text { foreign clovers indicates that American breeders } \\
& \text { can reduce the dustiness of their clover hay ty }
\end{aligned}
$$

$$
\begin{aligned}
& \text { can reduce the dustiness of their cl } \\
& \text { breeding a smooth-stemmed strain. }
\end{aligned}
$$

seed as the crop of has a peck of red clover
sprang from an ancestry, that has lived upon an The Agriculturist says
The
station Agriculturist says: "The results at this Station indicate that alfalfa should be sown with
out a nurse crop upon weli-prepared land, and the rate of fifteen pounds of sced per acre. The station has been able to secure good results from seeding it broadcast and covering it by a dounte spring up heavily during the first season, and they should be cut with a mower occasionally to keep them from smothering the young alfalfa plants and to keep them from ripening
seed. In mowing the weeds, sot the sickle-ta high enough so that the ground will not be turt
too bare, and the young alfalfa piants too luady too, bare, and the young alfalfa piants too l,adly In Alberta considerable suecess hes bed achieved with alfalfa, and it is to be hoped th

A Hint or Two on Summer-fallowing.
as seeding is finished, or before weeds have soon vanced far enough 10 mature seed. One deep, thorough plowing is preferable to two plowings, and to bring weed seeds to the ground loose in the season to get them all germinated and killed. If a hard pan has formed by repeated plowings at the same depth, or if it is desirable plowing is the time to do it the summer-fallow soils, a subsoil packer used immediately after the plow, serves to firm the lower portion of the furrow and assist in conserving moisture. If the warranted, then the harrow coult of one not plow without any loss of time, to ratain soil moisture. Surface cultivation with harrow, weeder or cultivator should be
 hat biennials and perennials are prepects, an in check. Where thistles or deep-ronted perennials are numerous, harrows-even disk harrows-ar or even a light plowing with the gance chow mor me given. Such plants are, through their leaves duce plants and seeds the following year. and only hy kecping leaves from forming are the Onts starved and killed.
On light soils, and even on some rich loams fres quent simface cultivation is inadrisalle. on account of liability to drift, The fact that a soil
drifts is evidence that it is lacking in root fiber ir humus, to supply which secding down to gras tahle matter) may he complored to a a ponge-
ready to take up monisture and to retain it. land without humus is in had mechanical condition

Summer-fallow for Wild Oats





$\qquad$
$\qquad$
$\qquad$

There are Other Places Where Good Cream is Spoiled.
Secretary Coburn, of the Kansas Board of Agri
culture, calls attention to conditions in that State in sion what he calls a curse of poor butter. Secretary Coturn says that only about 25 per
of the $25,854,206$ pounds of country-made butter in Kansas during the year ending March 1st, 1904, was found ciass quality, good enough to command 18c. a country grocer to the renoovating butter way from the has been melted, mixed with sweet milk, and argain churned, made into 'butter.' and sold on the open swall amount of first-class farm-mado buther ." It is said by men who have foc butter close touch with butter as a commercial product. that less than 25 per cent. of family or country-made.
butter is of a really merchantable quality and that butter is of a really merchantable quality, and that
this 25 per cent. commands an averaee price of 18 cents ver pound ; also that the remaining 75 per cent.. rench ing the hands of the reluctant country merchants, finall nds its way to some renovating establishment, at six sumer at in per pound; thence it comes to the conconsumer is forced to buy it mocese and the good dary product or pay for Yance over the price the creamery man could get in New Kansas is not alone. Every family knows th n too many instand llavorless compound of grease that seoper has sent it back to the store, and after dili gen as bad or go without to put up with something quito on a law providing imprisonment for thes would agre who spoils good cream to produce the the buttermake fat too often offered as 'dairy butter.' Thero ranci There is in the country-and there are others." There is in this country room for dairy education
on e thoroughly practical and scientific basis, and the
times are rine for the compalgen

The Loss from Bad Milkers
advising newcomers to learn how to milk, and the lowing pertinent advice from an Old Country source " There are two opinions about milkers adhering to take to cows. Some hold it is best for one perso Others prefer the hands ch'anging daily interos milking is always a foremost one, it would be the two. to learn which is really the better way of attends both ; but it is possible the as 1 know succes, superior to the other. With milkers thoroughly reliable woman adhere to the same in letting a man, boy or and the milker hat adds to the amiability of both, other in a manne constant milker than by changing favor of no changing if circumstances warrant this employed, and the objecten scarce ; all kinds have to be wedge a duffer in between expert milkers is often to keep the cow right. The objection to a bad milkereb road to an early curtailment of supply and ruinous ing by the green or careless hand, that hy in the mornmilking at night, the udder will be cmptied and careful one this, and it is consoling rectified. There is truth in the expert to the dufler dee a day; but the change from the cow objecting generally-and they do very smoothly, esent muddling. So sensitive are they on such that certain milkers, and in chatlring this is all their milk

To Improve the Quality of Gathered Cream.
There are two systems of operating creamer
ies-what is called the whole-milk system, and the ies-what is called the whole-milk system, and the
gathered-cream system. The whole-milk system is the practice of hauling milk to the creamery
and having it separated, while the gathered-cream system includes the hauling of hand-separator the butter from the whole-milk creamery is unexcelled; still, milk will, for some time, prohibit the wholemilk system from coming into general use. The improvement, therefore, in Manitoba's creamery butter must come through the co-operation of
the proprietors and fatrons of the hand-separator gathered-cream system and the adoption of up-to-date methods. There has, in the past, leen a wide difference in the quality of the out-
put from the two systems, so much so that the buttermakers of Minnesota are agitating for two classes in their monthly educational scoring con-
test. The buttermakers in the gathered-cream plants claim it is unfair to expect them to compete, and
themselves.
Now, the intention of this article is to develop
thought along the would, I think, if accepted and pushed, place Manitoba in the advance of older dairy States
or Provinces. What we wish in Manitoba is to be strictly up-to-date in the best methods, not accepting some old system which is about to be and the grasses favor a hish quality of butter and there is no reason why Manitoba should not wheat-growing district.
It has been accepted for years that the gath-ered-cream system of operating creameries is much cerned, but the inferior quality of butter has held this system in the background. The cost of manufacturing butter on a large scale in a
gathered-cream plant is surprisingly smill. I am prepared to give facts and figures on this subject,
but will not here take the space and time to do so. Now, if we can accept the system of cheapest manufacture, and stin, by adsanced and improved methods, raise the standard of our butter
to compete with the world, we have increased greatly the wealth of our Province. Not only
that, but we have established an important point which will result in a greater confidence among cream is accepted and a high price paid for the same, one cannot blame the patrons much for not taking extra care of the cream. It seems to
be hard to enforce a law compelling a patron to do not try. With the whole-milk system it is different; sour milk will not go through a separator, and the buttermaker must return it. Up-
on this point hinges the difference in quality of Grading the cream, and payin a cont more for the best quality, would affect the patron in a practical way. When a man secs that it ineans dollars to him to take better care of his
cream, he will at once be interested in doing so The difficulty with this method seems to be that there has been no practical and mechanical methjudgment of the buttermakere, ithere is always a ing treated fairly; that the buttermaker shows nechanically and greatly cream may be graded mechanicaly, and greatly improved in general
quality by the use of a small alkali tablet, to coutralize the acidity in samples of cream hauled
to the creamery. Let the size of the tablet represent the amount of acid you will accept, and when the sourness of acid excceds this amount, and the acid acts on the indicator cor phenolphthalein), giving the cream a red tinge or color Place this cream in grade No. 2. The sweet cream would grade No. 1, and patrons would re-
ceive one cent a pound more for butter-fat. Both grades are accepted, and each patron would have
a double set of composite bottles. At the end of two weeks or a month, depending upon the
period of holding samples, the patron would 1 grade testing a certain amount, and in another of the main objects would be to build up quality, and get all cream into the first grade; then pas-
teurize and use a heavy commercial starter. The time to pasteurize is just as soon as the cream
is received. If shipment is to he made on train 10 a central plant, there should he a receiving
depot at towns where cream is to be placed on ransported. Pasteurization reduces the acidity of cream to
some extent, but does not correct the evil efferts this reason the checking process should tok
place as soon as possible after sparation.
of course, it is taken for granted that settle
he percentage of butter-fat as shown by the and cock test
Parkda
lets, besides raising the laying qualities of th lock overy y this mater is or day of science we believe in experiment. Let any one who raises mixed chickens buy a half dozen
hens of a bred-to-lay strain whose eggs he can hens of a bred-to-lay strain whose eggs he can
distinguish-say Wyandottes of a strain known do lay very brown eggs, or Leghotns which lay white ones. Let him keep count of their, eggs and see how many the six average, and keep ac count of all other eggs and sce how many the
mixed hens average. Thie man who tries the exmixed hens average. The man who tries the ex-
feriment will have mixed hens to sell in the fall.

## Poultry Notes.

## Torat fowls make poor brecder:

The cement floor is easiest to clean.
All whole grain should be fed in litter to induc
The sitting hens should occupy quarters ertirely separated from the ect quiet to give best results.
Young chicks should be fed
fed four or five times a day til thirty-six or forty-eight hours after they are hatche except coars Some recommend even waiting longer time before giving other food to newly-hatche chick. The yolk of the egg te absorbed by the chick just before hatching, and it should be thoroughly digested before other food is given. A good rule is to food is given.
Milk, either sweet or sour, is good for both old end young chicks, but for real young chicks it is best to feed it in the form or cottage checse or while it 1
$\qquad$
Place the brood coops on dry, well-drained ground and be sure they are storm proof and rat tight, and the same ough ventilation and protection from rats and other enemies at night. A little extra care in protecting the chicks pays well.
Korosen oll applled to roosts, roost supports and nest boxes every two or three weeks during the summe
will effectually prevent the red mites or life from getting started in the flock
which are are many advantages in free range for poultry Whech are hard to supply to a flock in continement with vantages in this respect which many flock has ad poultry-keepers cannot give their fowls without having trouble with their neighbors.
On many farms where the hens have froo access to the hog pens and get too much corn and beeome to
fat to lay one remedy is to build a larger poultry house and keep more hens to eat the waste grain. The poultry on most farms should not be fed any grain but whote osts, espectanty when they can get out around the stables and hogpens, because they will then get all the other grains and food they need for variet fattening of them all
Thoroughly clean the brood coops and give them good sprinkling of kerosene oll before putting in th now families this spring. It the coops are mer no red mites will bother them. Prevention in thie mer no red miltes will bother them. Pr.
case is better than cure.- [The Farmer.

## Sitting Hens.

Whem a hen gets to be real broody, she will usually readily accept ay neet you may give her with eggs in in the hen, after leaving the nest for feeding, to return hens in nost, and even where we set a number o few days before the hen gets used to her particula nest and thenceforth claims it as her own. We have often had two hems get upon one nest, and have one to flghting over one nest, with disestrous result to some of the eggs in the nest. All thls trouble, how ever, can eastly be avolded. The best plan, probably, where the egge have to be hatched in the natural way is to have a hatching room that ts the very counter rangement, and nests exactly like the laying nests. will be all the better if the neste are movable nest boxes, which can be takem out of the laying room with the broody hen on It, filled with eggs and placed in the will be no further trouble. The hen knowe her The and its position, and when she leaves it to feed, drink or dust herself, she will promptly return to it when ready, and this without being interfered with by any o nests. It hardly needs to be sald that there should be an enclosed yard connected with the hatching room, that the hens may go out into the air and sun, and dust themselves, and that for greater safety each ho Insect powder) several times during their hatching period. A few lice may not do much damage to old
fowls, but they are liable to turn apparent success in chicken-raisimg into dismal fallure. Dasting hens tho chicken-raisimg into dismal fallure. Dasting hens thor-
oughly with imsect powder or tobacco-dust soldom falls

Forticulture and Forestry:

## Starting Celery Seed.

Celery is a crop that is to be transplanted. The Ior until they are large enough to be transplanted either into a temporary bed or to the field. Celery seed is very small, light, and quite slow to germinate, and for
these reasons great precautions are necessary in start ing the plants. Methods employed for starting cabbage, onion or tomato seed would, in most cases, fail
with celery. Very few with celery. Very few other vegetables require such The seedlings, as they germinhe secd-bed. it takes a few days before they are strong enough to time one must not forget the seed-bed. During this regularly, or else the hot sun or drying winds are liable. to cause many of the delicate seedlings to die. The seed-bed should be well prepared.
aside from being light and rich, should be perfectly fined on the surface. The seed should be planted ay
shallow as possible. Sometimes it is brodcast thinly covered. While this way may give a and thinly covered. While this way may give a good
germination, if the seed-bed is properly taken care of, at this station we have had excellent results in the
germination by the drill method. The seed is plated germination by the drill method. The secd is planted
quite thick in drills, about 3 to 4 inches apart and quite thick in drills, about 3 to 4 inches apart, and
from $\ddagger$ to inch deep, and then covered very shallowly with the lightest kind of soil. Immediately after the seed is planted the bed is watered. From this time o
a careful management of the seed-bed is necessary a careful management of the seed-bed is necessary, re
membering that the surface soil must not be allowed bocome too dry and hard. To keep the soil from bak
ing, it should be watered frequency of the watering of the seed-bed will depend largely on whether it is exposed to our hot suns and
drying spring winds. If the seed-bed is drying spring winds. If the seed-bed is open, it is ad
visable to have it in a place where it can be sprinkled every evening. While the ideal seed-bed is one that i open or unprotected, better results, with less care, ca be had when some kind of a covering is used. Boards to prevent evaporation, and to keep the soil from tak ing. Straw mats, cold-frame glazed sashes, gunny sack and common cotton cloth have been used at the station tion have been quite satisfactory, but the stand germinaslightly more uniform from the beds covered with the cotton cloth. The beds covered with the glazed sashes
usually bake more, and more frequent watering is also hecessary. It has been found necessary to water such beds every two days, and when the days are very hot
and windy, every day. Beds covered with cloth haver been watered on an average every three or four days. above mentioned, it is generally better $t_{0}$ have the seedbed made in such a way that thore will be a space
from three to six inches between the covering and the soit. Beds made in the form of a cold-frame are very satisfactory. If lumber cannot be had, the border on
the outside can be naised he outside can be raised to the necessary height. cloth over a light frame made from inch lumber. The overed framese are onsily handled, nnd when llaced over soon as tho ssenlingsess not move them around. As stant
should be remover. If thed the covering should ibe removed. If left too long, the plants tend
to grow too tall and spindling. When the choth is sim-
ply laid right on top of the germinate they strike the cloth and bend over to one Fair Play for Canadian Nurserymen Sir,-In your issue of May 10 h, in the Horticultu
and Forestry department, you note that Mr. Thos. Cum and Forestry department, you note that Mr. Thos. Cun-
ningham, inspector of fruit pests in British Columbin, estimates that half a million of frult trees are being im-
ported into British Columbia this season, chiefly ported into British Columbia this season, chiefly from
Oregon, and you ask the very pertinent question, .. Why Oregon, and you ask the very pertinent question, " Why
this nursery stock is not grown in Canada?" Allow It is grown in Canada to very conolderable tent. A considerable portion of the hall million trees
were supplied by Ontario nurserymen, but under such difficulties that it was only done to save the stock from Ontarto have haday. I estimate that the nurserymen of million of trees this spring, and under any sort of fal play would have been extrecuely glad to have availed
themselves of the extrnordina;y denand themsel ves o
nursery trees
mined, apparently, to stop The B. .C. Government have adopted, wisely enough most stringent regulations as to the importation of
nursery stock, to prevent the importatiom of diseases of nursery stock, to prevent the importation of diseases of
any kind-San Jose scale, peach burers, of any other form of disease that can
$\qquad$
desire to foist on the frult-growers
nesed stock. Let the regulations


A Submarine Torpedo Boat.
W. D. Flatt's Clydesdale Sale.

The auction sale at Hamiltori, Ont., on May 17th, of 43 Clydesdale fillies, imported by Mr. W. D. Flatt, proved a very successful event, considering that the
fillies were quite young and in thin condition, most of them under two years, many of them under one year, only half a dozen three years old, and many looking quite gaunt from the voyage of twenty days, two days
of which they were without food, nearly a week on the rallway, and just recovering from the distemper, which commonly affects horses on the voyage at this season
Very few, we venture to say, were optimistic enough to predict an average of over $\$ 260$ each before the sale commenced, though the high-class quality of the stock was admitted and admired, clean, flat bone, of good size ; big, sound feet, and true action being a common
characteristic, while the breeding was of the best. There was a very large attendance of farmers, and the acknowledged scarcity of good brood mares in the country was evidenced by the brisk bidding, which continued till the last lot was disposed of. The highest price
$\$ 505$, was paid by Mr. John McKenzie, Keyward, for the beautiful bay filly, Adriana, foaled in July 1903, sired by Baron's Peer, a son of the noted Baron's Pride. The same buyer paid $\$ 345$ for $t$
 $\theta$, and 6 capable of submerged ; 3 when
the character of the
ciency. The submarine runs on the surface until within enemy, being of the spicuous, little bein visible but the whale backed top. During
this time it is driven y a gasoline engine. distance of the encmy however, it sinks un
til partially wholly submerged propelling power of
storage batteries and an electric motor
now boing called into requisition. Thus, ike the hidden ser-
pent, it goes on its way until within sirf
ficient range for tha ficient range for th
discharge of the tor pedoes, one of which is somotimes sufficien to sink a vessel Steering under wate means of a peculiar means of a peculia
optical instrumen confined in the to jects out of th
water, nnd which, by mans on it trans
mits a
moicturn, of thin

## Horse Show Arrangements

rrangements for the Winnipeg Horse Show hav
most carefully prepared. The prize-list make ision for carringe horses, roadsters, saddlo horses, events and military features are on the pro me. As a stimulus to the breeding and fitting of
horses, the show will be a powerful force and will

## The Torpedo and Torpedo Boats.

The torpedo ts an essentially modern artifice of war
was first used at Wei-hai-wel in 1895, suggeotively enough by the Japanese, who then sank three Chines United States and Spain, in 1898, the torpedo was not used, but since then the various nations, in piling up the deadly machinery which seems necessary to their
Individuality, especially in the old world, have become ndive to its, especially in the old world, have becom allve to its value, and now a lotilla of torpedo boats
and .. destroyers ${ }^{\text {a }}$ is considered indispensable to any up-to-date navy.
The kind of torpedo used by Japan in the present war is the Whitehead navigable species. It is a long
cigar-shaped affair, from 14 to 18 feet in length, and in cigar-shaped affair, from 14 to 18 feet in length, and in
its passage through the wator is said to resemble, somewhat, a sturgeon. The explosive charge, weighling usually, between 150 and 200 lbs ., is contained in section at the nose of the torpedo, and is exploded by soon as it hits any solid object. The torpedo is drive from the torpedo-boat by compressed air, hut when started on its way is self-propelling, and, henco, not siderable range, usually 1,000 yards
Ubes, but the boats war vessels have a few torped service are immeasurably supperior for warfare of thi nature. In their very diminutiveness lies an element
safety, while for night mancouvres, or in any action in safety, while for night manoouvres, or in any action in
which lightness and speed are required, they have proved the most effectual medium yet invented, beling able to run in, cripple a battleship, and retire in comparative safety, where larger vessels would have found it impos from 25 to 30 thots an hour
The newest kind of torpedo-boat is the submarine
This kind has not so great a speed, being capable o
only about 11 knots on the surface, and $\mathbf{6}$ or $\mathbf{8}$ whe only about 11 knots on the surface, and 6 or 8 whe

Torpedo Z O
of war ever invented, and its agency in the coming
Veterinarians of Western Canada. nay be considered almost a in antive of the Province who Manitoba, as he migrated from Goderich, his natal
place, when quite young, is Dr. Will place, when quite young, is Dr. Will A. Hilliard, a Gill University. Dr. Hilliard, served a pupilage during two summer vacations with Dr. Fred Torrance, in Brandon, and acted as locum tenens at Neepawa for
Dr. A. G. Hopkins. In 1902 he spat some large veterinary hospital in New York, and is now an large veterinary hospital in New York, and is
gaged in general practice in Munnedosa, Man.
Professor of Dairying for the M. A. C We print herewith a halftone of Prof. W. J. Carson, toba Agricultural Colloge. Prof. Carson is an Ontarion, from Russell County, and graduated from the Ontario Agricutural Coirege in 1902 , having specialized on structor in the Eastern Ontario Dairymen's Associatio and later accepted the position of Assistant Professor
of Dairying at the Wisconsin Experiment Station and Agricultural coltege, which he leaves to come to Winn peg. A man of more than ordinary calibre, he has had
a very thorough experience in practical dairy work, and has since had exceptional opportanities to develop,
under such worid-famous experts an D. Babcock and Profossors Farringtom and Woill.
He is a sound, capa ble and earnest-minded man, who thinks well before he
speaks, and should prove $n$ tower of strengtt speaks, and should prove a tower of strength to thi
new institution, bemg just the kind of man that needed to bring the Western dairy industry to to to fore.
In selecting him, President Black has made an excellent

Events of the World.
nd Windsor,
Canada may be honored before long by a visit from he King of Belgium.

Materials for the new Marconi Station have been
ent to Sable Island.
The C.P.R. will double-track the line between
William and Winnipeg, the work to begin at once.
The C.P.R. has let the contract for the construction otwe portion of the Toronto-Sudbury line which lies between Toronto and the Magnetawan River. Roads
will also be built through Ontario, from Walkerton to
Flesherton, and from Victoria Harbor to Sharbot British and Harbor British and Foreign
Ivan Kalleff, who assassinated Grand Duke Sergius
on February 17th, has been executed.
All the boats participating in the autoboat race from Toulon to Alglers, were elther sunk or disabled during a heavy storm. All the crews were picked up
by destroyers which followed, except that of the Quand by destroyers which followed, except that of the Quand
Meme, consisting of seven men, of whom nothing i Every indication in the Far Fast points to battle in the near future. All the sick and wounded in Harbin and vicinity have been sent to Irkutsk, in order to leave the hospitals clear, and sanitury trains have
been rushed to the front. In the meantine, General Linevith is pressing upon the Japanese center, anu
several preliminary skirmishes have taken Hace, will Linevitch is pressing upon the Japanese center, and
several preliminary skirmishes have taken Mace, with
varying success. From Oyama, as usual, no word is
$\qquad$ From the sea comes a rumor that Togo and Rojest vensky have met south of Formosa, and that that Rojestvensky has died, but neither report has as yet obtained much credit, and the general belief is that
the Russian fleet has managed to Pacific. That Rojestvensky has not, however, the full
not out int the
not confidence of the authorities, nay be judged from the fact that last week Vice-Admiral Birileff was despatched from St. Petersburg for the Far East, with instructions that, upon arriving at Vladivostok, he is to be subor
dinate to Linevitch but superior to Rojestvensky. Sev eral divisions of troops were also despatched from Po land, and a fourth Pacific squadron under Rear-Admiral Parenago will set sail from Cronstadt during the las week of May


## Narkets.

Winnipeg.
$\underset{\substack{\text { Thompson, Soirs } \\ \text { danit } \\ \text { Nant }}}{ }$
moasure the wheat during the past week has fel
trength of the Minneapolis mel
has been infuencad
has been influenced by the fluctuations there. The effect. has been more activity in our option market, and a disly. Dullness and lack of demand in shipping and tightport trade is still characteristic of these branches, and Tesults in only moderate transactions in cash wheat. It is to be noted, however, that stocks at lake port
terminals are now 300,000 bushels less than at same
date last year,
is much less than at same time last year, end the gencleaned out. Besides this, a large part of the well in store, Fort William and Port Arthur, is below the grade of No. 3 northern, the figures being about $3,200,000$ 000 bushels No. 4 extra, No above, and about 2,300,and feed, etc. This draws down the stock wheat, milling wheat considerably, and where these details are not known the aggregate figures of the stocks are in a great measure misleading.
as The feeling generally is very optimistic as regards the crop prospect, and there is a consider-
able increase in acreage, but to what extent yet venture an estimate. Prices are: No. 1 northern, 93 c . (last year, 87 z..) ; No. 2 northern, 89 tc . (last year, 84 gc.$)$; No. 3 northern, 84 cc . (last year, 82 tc .) :
No. 4 extra, 76 c. .
 prices are for in store, Fort William and Port Arthur. Alberta is expected to put a large quantity of fall wheat on the market this fell, unless unforesoenl circum
coarse grains and feed.
reported to be small in farmers' demand, and stocks
Millfeeds-Bran, \$14; shorts, \$16 per ton to th trade; ofl cake steady, at $\$ 27$. been through baled, $\$ 9$; a lot

DAIRY AND OTHER PRODUCE.
Butter-Creamery, 27c. to 28 c . for bricks; dairy
grades from 17c. to 20 c . , grades
Eggs-14c. is the jobbers' figure for the fresh article
Cheese-Ontario article quoted at 12c.; Manitohes
Poultry is all imported stuff.
 to 4c. being the quotation; Some buyers from the East
have paid Manitoba farmers better than 4 c . at their
local towns.
Sheep-Choice stuff, 5 cc .; inferiors, 4c. to 5 c .
Hogs-Selects bring 5 tc c., off cars, Winnipeg

## Chicago.

Cattle-Market a little lower; good to prime
steers, $\$ 5.60$ to $\$ 6.50$; poor to medium, $\$ 4.25$ to $\$ 5.40$. tockers and feeders, $\$ 2.75$ to $\$ 5.25$. Hogs-Mixed and utchers', $\$ 5.25$ to $\$ 5.55$; good to choice, heavy, $\$ 5.40$ o $\$ 5.52 \frac{1}{2}$; rough, heavy, $\$ 5.25$ to $\$ 5.35$; light, $\$ 5.30$ o choice wethers, shorn, $\$ 4.66$ to $\$ 5.25$; fair to choicu mixed, shorn, $\$ 3.50$ to $\$ 4.50$; native lambs, $\$ 4.50$ to
$\$ 6.50$.

## British Cattle Market.

 pound; refrigerator beef, 9 tc . to at $9 \ddagger \mathrm{c}$. per pound; sherp,13c. 1 c . $14 \frac{\mathrm{c}}{} \mathrm{c}$. per pound. $12 \frac{\mathrm{c}}{}$. per

## Foreign Crop Prospects.

 Broomhal's foreign weekly crop summary says, undeydate of Mav 23rd . Ung the Krowth Kiom and France,-Cold winds are check ing the growth of wheat, but otherwise conditions are
satisfactory. Supplies of home-grown wheat satisfactory. Supplies of home-grown wheat continue
very small. Germany-Some rain has fallen, but more is wanted. Supplies of home-grown wheat now small. Russia-The droughty sections have had some rain, but more is needed. Some reports claim the crops are all
right, while others contend there has been consil deterioration. The strike of bargemen at considerable Azoff is likely to hinder shipments. Hungary-Crops the present faveling satisfactorily, under the influence of able weather has prevailed. Spain-Further unfavorfair. India-The wheat crop of the United prospects are Agra and Oudh is officially eftimated at $59,100,000$
bushels, against $98,320,000$ ent
illustrations.
How Cement is Used in Big Bridge A. B. Ma. ......................e............. 803 ciue Hat, Assa, o.. ........... MediR. G. Mathews. Macleon, Alta............ 805
The Round-up. ...
805
 Vice-Admiral Neltogatuf Mordoes … ... 810 A Submarine Torjledo Boat … ........811 Torpedo Boat Thos. Baird
W. A. Hillion
 editobial.
Federal Control of Crown Lands $\quad . . .801$
The Carnexie Svstem of Distriluminit

 Sunnerrifallow or Rotation of Crops? ?
Instances of Successtul Co-operation:

## Contents of this Issue.




 and Torpedo Roats ........................ 8 Representative Men of Western Can-
ada; Veterinarians of Western Can-
ada Professor of Dairying for thene.......... 812
 09 markets.
 Calgary Stallion Show Wake Up $!\ldots 803$ Summer-fallow for Wild Oats Calgary Stallion
The Shetland is
The Height of t
Points on Draft-






Lite, Literature and Eoucation.

Messenger Boy and Millionaire Andrew Carnegie's recent gift o
$\$ 10,000,000$ to provide retiring pen $\$ 10,000,000$ to provide retiring pen versities and technical schools in Canada, the United. States and Newloundland, has again set people tongues a-going as to whether will be possible for the big purse to dwindle down enough to permit th onder king lo die even moder atei, respectably poor. Financiers alus unis Scotshe is enourh and that, since his income much more than covers the amoun his yearly donations, he may wel caik about getting to the bottom of enormous tatal which he has already given away, staggers ordinary com prehension, and the world is no likely to grumble much so long as Mr. Carnegie chooses to divert suc workable amounts into channels which so far have been the medilill of his favors.
Up ta the present time he has cis posed of close upon $\$ 140,000,000$ been expended in libraries, $\$ 59,852$, 000 in colleges and schools of var ous kinds, $\$ 5,000,000$ for the Heroes
Families' Relief for Employes' Pension Fund, $\$ 1,50$ ooo for Allied Engineers' Society $\$ 1,500,000$ for the Peace Temple at the Hague, and $\$ 29,000,000$ to othe given away during the present year Given away during the present yea
$\$ 500,000$ to Maino University $\$ 125,000$ to the Rensselaer Institute, Troy, N. Y.; $\$ 125,000$ to Uber-
lin College : $\$ 150,000$ to Syracuse University: $\$ 15,000$ to Oberlin dents who lost money through the Mrs. Chadwick affair with Oberlin Bank; and $\$ 635,000$ in other bene
'The Scotchman who is thus enabled to throw money about in this
wholesale manner, was born Dunfermline, Scotland, Nov. 25th, 1837. When eleven years of age he
came to the United States with his parenis, wha settled in Pittsburg, the spot which was to prove a veritable Alladin's garden to the little at first, however, only came in the form of various situations, chiefly about the railway stations, as telegraph messenger, operator and clerk
to the manager of the Pa. R. R. to the manager of the Pa. T. R nucleus of the big fortune which followed, appeared with the invention
of the sleeping car. Mr. Carnegit did ho was shrewd enough to see its possibilities, and went into partnership with Mr. Woodruff, the actual
inventor, in booming the idea. Mr. Woodruff's genius and Mr. Carnegie's
financial ability were a good cominancial ability rere a good com-
bination, and from this time the
money-and other things-came in money-and other things-came in
fast. Mr. Carnegie was soon made
afterwards he speculated in oil wells, and found that not for Rockefeller oil wells, in fact, y iflded him a big
fortune-a fortune which enabled hig to take hold of the iron and steel business in a way which speedily placed
him in the position of iron king of

```
the worid.
```

For some time, however, Mr. Lar negie has been withdrawing gradualthe various manufacturing concern which occupied so much of his time and only the other day he gave up the presidency of the Iron and Steel ing $\$ 25000$ treat Britain, present a parting gift. During the winter he usually resides in New York city, but when May cotnes he invariably sets sail with his wife and daughter home at Skibo Castle the family spends four months of each year For some time Mr. Carnegie has devoted himself to incrary work, and umphant Democracy," "" An Ameri-


Mr. Andrew Carnegie,
The millionaire who is trying hard not to die rich
can Four-in-Hand," " Weallh," and Mr. Carnegie has never said, as has been reported so often, that he
considers it a disgrace to die rich. What he has said, and still affirms, behind him millions of wealth which he might have administered during ored and pass away unwept, unhonthese, the verdict will then be, "The graced.'" This disgrace Mr. (arnegie is evidently trying 10 evade,
and whether he can succeed in materially rectucing his fortune remains
to be scen. His closest frimds at "east maintain that he will," a com parativelv poor man, but he has
still $\$ 300,000,000$ left.

## Back to the Land.

The "Farmer's Advocate and Home Magazine" for May 10th contained a short sketch of the literary wark of Mr. William Wilfrid Campbell. We may be pardoned for re producing the following acknowledgment written by the poet from his Ottawa home

I thank you for the kind appreciation in the " Farmer's Advocate and Home Magazine ' 3 of my verse Frankly, I like it very much. A sincere opinion which is nat hypercritical, of litarature is not too common nowadays. I see that you speak of America, of Mr. Rider Hargard to of your article. I love nature trend country, and believe that the greatest cure for many of our modern ills be a problems which beset us, would that we could rouse land. I wish ecessity of this, if our country ideals in the past. What
we want is the we want is the simpler,
sturdier, manlier life which population be lived by a rural ours can do a great good. have more faith in the farmer, in the long run, than any mains a thinker and tries to read and desire culture. You
can do much in this direction if you can only get the com-
ing generation of farmersmen and women-into the idea that there can be the truest ligence on the farm. What arm want on the Canadian farm is a greater sense of
beauty, comfort and homely pleasure, such as rural En
land knew in the old days. hank you again and wish you success, because I think your class of readers is the
most important class the country contains. $\stackrel{\text { Yours }}{ }$
W. WILfred Campbeld. We reproduce below the
opening and closing stanzas opening and closing stanzas
of a pocm written by Mr.
Camphell "Back to the Land," which puts in verse what Mr. Rider
Haggard so vigorously puts
$\qquad$ land; Back to the spaces wide sky-panned;
Back to the opens glad and sweet, From the moil and toil of the crowded Back to the life by mountain and lea
$\qquad$ given,
The life of the open under heaven, Where woman is woman and man is plan,
The oldest, the wisest, the truest iffe The oldest, the wisest, the trust life, and the kingliest king is he who sows ground growe wealth that his own

I sing the song of the countryside, Where every vast spaces, open and wide, Will give of the joy to the hand that tille.
ea, scatter your homen I To each man Room to breathe, be happy and $\mathrm{H} v$
Room Room to freathe, be happy and Room to conquer or die in the strile ;
Room to be women ; room to be meas Not demons and thleven and apen men Not frayed-out, impotent fags of ai race, face: And the fight with nature the only Where body and heart and braln can To grow the wisdom and joy a man shoul Room to litve; to strive and wo die Room to live ; to strive and to die
Out in the open, under the sky, Owning no master, answering no call,
But the voice of the myatery round But the voice of the mystery round

## The "Divinity that Shapes Our

 End.How many thes we me to erisis in life when some obstacle confronts us which we think will be al terrible catamity, and will perhaps ruin us if we cannot avoid it. We fear that our ambition will be
thwarted, or that our lives, perhaps, will be wrecked. The dread of the shock which we think will overwheln us, as we come nearer and nearer to ing it, is something frichtful. Many a time in the writer's life has he come to such a point-when it seemed as if all was lost-and yet some straightened out the control has the puzzle which seemed insoluble the storm which threatened shipwreck has passed over, the sun has become ranquil and serene has
 troubles seem thick and threatening; find when we get there, we usually pleasant faces, and people to room us in case of necd. When we look back over our lives, how few acciMany have really happened to us how, thinirs have come out right in spite of us, so that we have wasted our vitality, we have grown old and Wrinkled and bent, and have short and worrying about calamities which nd worrying hape. Why should we thus needlessly throw away happiness and usefulness? It seems lrange that when we know perfect
ty well that we are dependent for very breath we draw upon a Divine Power which is constantly providing or us and protecting us, we do not rarn to trust it with absolute con-
fidence and resignation. There is only one thing for us to do, and
that is to do our level best right ives. we ance cur hast of our lives: to use our hest judgment. Power which hoids the forces of the universe in His hand, and which does
all thin:s well --10. S. Marden, in
" Success !e.

## Lift Up Thine Eyes

## ME: and againe, and little whalle, not see

 shall see ME, because I go to the Father.-S . John xvi. $: 16$. Touch ME not; for I am not yet a

## - Alleluia 1 not as orphans

Are we left in sorrow
Faith believes, nor questions how
Though the cloud from sight recelved Hin
When the forty days were o'er, When the forty days were o'er,
Shall our hearts forget His promise,

I am with yoi
Curtstians of many üfering opinions Donth in celebrating our Lord's Birth, that our churchesction ; how is it then that other great day-forty daysty of Easter-which has for so many hundreds of years been set apart to commemorate His Ascension? Is it because people Man Christ Jesus was of little of the quence, or is it because they don't really belleve His strange saying pedient for you that I go away ?"'
The disciples mlght well have His going away would have felt that "orphaned." How could they refoice in the promise that "enother Comforter" would be sent when their hearts cried out But it is often true even with loved? But it is often true even with earthly
friends that they are really nearer to us -nearer in the mysterious, invisible soulunion which is the reality of friendshipWhen their bodily presance is removed
from sight. Although the disciples from sight. Although the disciples
watched their Lord as He left them, the great parting promise could not be great parting
broken :
"Lo,
In amise with you alway, Though vanished from their bodily sight He would faithfully keep the tender promise: "I will not leave you comfort-
less ; I will come to you." The promise of " another " Comforter was only a
pledge of additional help pledge of additional help. I can't help
thinking that Zechariah foreshadows this beautiful parable about the sevenbnanched candlestick, which is perpetually supplied with ofl from two olive trees mpty the golden oil out of themselves: The angel said to him, " These are wo Anointed Ones, that stand by the candlesticks are the seven churches seven the inexhaustible supply of oil can only ontained from God, who pours grace che Holy Spirit the souls of men through FELLDOW" -and ours. Mam Who is His hurch has not been left ertainly ruth Augustine put into words a great ath when he declared that Christ 8 the Father, and so went unto the leave never to leave the world. the Father If you will look closely at the text contain a grand Christian paradox. "Ye shall see Me," the Master says,
cause 'I go to the Fether," as though
men could not really see Him while His bodily presence was, like a veil, hiding His Person. The second text seems to imply that only after the Ascension could many other ways the Ascension was
pedient," but I don't intend to dwell those to-day ; my object being rather awaken in you a vivid realization of the Master life with our eyes ever on Master's face, and His hand closely
clasping ours. How the thought makes one's heart beat! To see always the and through with the touch of His hand! ways with " S . Patrick's Coat of Mail"

## Illumine and aight

Christ as a Shield, guid
hrist be under me!
Christ be beside me

[^3]
## (19)

How could that be continually possible without the Ascension? We should then to see Him, instead of simply having to lift up our eyes ; we could hardly have got near enough to touch His garment,
much less to clasp His hand multitude would throng Him. Then the S. John could not always have leaned on His breast, as anyone whom Jesus oves may do now. Even in earthly touch is the soul rather than the body. If love were dead what possible satisfacsign as the clasp of a hand or the sight joy. face? It would glve pain, not
Ascension might well think watched that the old saying had been literally fulfilled: "Knowest thou that the Lord will take away what user was it thy head to-day?" Of
when when they was it to lift up their eyes, and farther away until a cloud hid Hilm from their straining sight? He ascend-ed-where? "Into heaven," we say.
$\qquad$
$\qquad$ when our earth has turnce but at night, still point into the sky and say that
heaven is ." there." it is in exactly the opposite direction
it According to our ideas of space, the
realities which lie above it, not in space, but in altitude of being? The ever-proto-martyr were 'lifted up, and the into a world of uncarthly splendour close to him, and saw his Divine Master standing to receive His brave and loyal servant.
It
vision vit is not "telescoplc" but spiritual God can find Hime everywhere. What is
nothing nothing but a "common bush " to one is seen by another to be burning with Divine
fire. The bush is the same, but the sige is different. Our same, but the sight who lacks this spiritual sight is: "'Anoint est see."
$\qquad$ visibly, and from which He shall visibly
come again least again on the Last Great Day, at vitally with us that He is most truly and sense we cannot see any person with real bodily eyes, for personality is and must passes invible. When an earthly friend never tream that gate of death we lifeless body is to see and touch the These outward things are indeed "dead", anless they are sacramental ; unless souls can the outward, visible sign, our the invisible and spiritual touch with which can never be really reached by our
senses. If thersontity haven which we lift up our eyes is as senses. If the touch of one hand be ab-
far of from the heaven of an Australian solutely meaningless to you, while the


Joan of Arc, Hearing the Spirit Voices
touch of another may have power to thrill you through
and through, is it because of the difference in the ac-
tual flesh which your hand may be touching, or is the
difierence in the personality which only your spirit can
touch ? stories of souls
stepping out of one body and $\underset{\text { inhabiting }}{\text { one body }}$ another
could be carried into actul colld be carried into actual
elfect, we should soon find that the soul, far more than the body, was the person
we had known; just as a person is the same though
his body may be altered bo his body may be altered be-
yond recognition by time or some disfiguring accident.
We may not be responsible We may not be responsible
for the outside, but we are for the inside-that is, for
the real man. One person may, without effort on his
own part, be a strong as
Samson while sunother Samson; $\left.\begin{array}{c}\text { while } \\ \text { another } \\ \text { may be a helpless cripple all }\end{array}\right)$ hay be a helpless cripple all
his days on the earth. That is outside ; but the
real man inside may, in the first case, be weak and self-
indulgent, and, in the second case, man have grown
strong and beatitul through years of brave en-
durance. Wealth, physical
strength and prength and beauty, social
position, etc., do not be-
hing to the people to whom
mind thither ascend, and with Him con mind thither ascend, and with Him con-
tinually dwell." Surely that glorious
stair was not placed in position only fo the use of the angels. Just ". because "
our Lord has gone to the Father we our Lord has gone to the Father we may
see and touch Him all the time. Do I repest myself enough to grow tiresome, in these quiet talks? How can
one help telling over and over again such a glorious message? I don't want tell you anything new, I only want to of the reality and gladness of vurtunity unity with God through Christ. The in spdring " Sursum Corda !"-the "Lift yil ages ; how instinctive is the glad the ages; how instinctive is the glad re-
sponse-" We lift them up unto the Lord !"-that is continually rising from multitudes which only God can number.

- Run the straight race through God's Lift up thine

Faint not nor fear, His Arms are near

Joan of Arc, Hearing the Spirit Given to reverie, ford of solitude holding somewhat aloof from the loved peasant dirl alf, Joan of Arc, the banks of the Mouse ise on the she tended her shcep upon the pas tures, to the spirit voices which told to be the deliveror was to be given land, and thus she musad her native " I can deliver France!
must save the country! God is not ; I speak not, I think not, feel not of myself; and whither He shall somme must go ; and whatso He ormands, hat 1 must speak ; ane whatso is His will, that I must do and inust plat away all fear of men
 Joan had been surrounded by mys has it that the birds came down her call, and that while she teaded her flochs 110 wolf would come near fowers would sine very grass an stars above would flash their mes-
sages into her. listoning wonder, then, to a mind so attuned, tree or shr;ab, as revealed by darkshould take the shape of angel mes sengers, bidding her go on or come, girl heard the voices in the bells of youth, in the fountain, in the sigh ing of the winds, and in the rust1go into France! I, Michael, the the lauphin, for lyy you he shall reHistory gives us the sequel ; tells thousand men to the relief of or Or ater 'capture, her linal martyr, her and her most cruel death in 1431 , market-place of Orleans, a statue
stands to the memory of the gallant
Joan, the Maid of
$\qquad$

$\qquad$
$\qquad$
$\qquad$

[^4]
## 1 <br> MAY 31,1905 <br> Jimmyson's Forgetery. By Ralph Wilbur. Now, his real mame was James; but, as his mother called him "Jimmy," and his father called him "son," why, every- one else called him " Jimmyson" for short. <br> THE FARMER'S ADVOCATE.

 "Goodness me!" he said. " Wherecould I have left my cap? Mama! Nora! Mike ! Everybody! Have you seen my
cap?., cap ? And he rushed here and there
upstairs and down, In the barn and out
looked under the sofa, behind the hat rack and every place he could possibly
think of where a wandering cap, which was never very particular about what it
did, could hide. He had just finished his luncheon and
was anxious to get back where he hadd left his fishing pole and line under a shady tree on the bank of a merry chat-
tering little brook, that made more fuss in the world than many a deeper stream that could turn a water mill or float a
boat ; but that's the way with some Oh, never mind, I don't care!'" he back a moment to see his mother, Nora and Mike standing on the lawn and
smiling very broadly as he waved his they laugling at?" he "undered. ing, so he settled himself comfortably
with his back against a tree, threw his hook and line in the water and waited After a long time he thought he would
pull up his hook and look at it. When he did so, he exclaimed, "' Goodness ! I
forgot to pht on a worm !" After laughing to himself and at himself for having what Nora called "the best forgetery of
any boy in the country," he baited the hook, cast it out into the brook and wait, as all good anglers learn to do.
The day was certainly a perfect one for fishing, but that doesn't say for catching
fish; for on a day like that, at a time
and a very stupid fish indeed that wouldn't
have wriggled himsclf into a nice cool spot among the roots under an over-
hanging bank and taken several times hanging bank and taken several times
"forty winks " while thinking about the their hooks of people who forget to bait No wonder that Jimmyson learned back
and closed his eyes while the tip of his and closed his eyes while the tip of his
pole slowly dropped into the water, as
be listened to the catbird singing aurbe listened to the catbird singing a gur-
gling little song to his mate as she sat an alder bush, and old grandfather turtle
crept slowly up the bank for a little bask
in the sun, to limber up his stiff old crept slowly up the bank for a little bask
in the sun, to limber up his stiff old
bones a littlee.
"Well, well, here he comes again," said the turtle." ${ }^{\text {" Who ? }}$." asked Jimmyson. "Oh, Old-Man-Who-Forgot-to-Remember.
Here he is now," answered the turtle as Mr. Rabbit oame timidly the turtle as the
bushes, peering here and there and mut tering, "My-my-my-what could I have hind." "I it the same thing you left before?" asked the turtle in a very peculiar tone, At this the rabbit jumped in the air
and exclaimed, "My, how you startled me ! That's it, thank you. I lett it bethank you very much," And he scurried
away through the bushes so fast that it hardly seemed he had been there.
"What was it he lost !" asked Jimmyson.
". Blest if I know, and I don't think he
does himself," chuckled the turtle. "You does himself," chuckled the turtle. "You
see. it's this way.He's a March hare,
and he's hare-brained. tomed to forgetting things that he isn't
happy unless he thinks he's lost somehing. Why, ten to one, by this time hes forgotton what he's running for."
. That must be very unfortunate," said
Jimmyson. "Sometimes yes, sometimes no." said
the turtle. "For instance, the other day he thought he was huncry, so he rushed
to the store, got some Oatmeal, rushed lack, put the pan on the stove and sat
down and waited a long time for it to to goture to light he fire ; so he lit it
Then he remembered he had forgoten
salt, so he rushed toward the store to salt, so he rushed toward the store to
get some. When he was hallway there he got interested in a game of loanfror for

## The Second Mrs. Jim.

The next episode in the story of
the Second Mrs. Jim is headed " Desperate Remedies," and it deals
got what he went for, and when he got ' ' ' I remember it, too the youth replied
home it was after dark. He was very tired, the fire was out; so he forgot he vas hungry and went sound asleep.""
"I don't see what good that did him,
 the next morning he found he had for gotten to put the oatmeal in the pan "" Oh, I see," said Jimmyson; " but " "but at that time," was the reply; wanted it, why, he was one dinner ahead."
Jimmyson didn't quite agree with this, Wut he was too polite to say so, so h "Lots of things," was the answer " only I have to be started before I can
tell a any," makes the big river so low this "immer ?" asked Jimmyson.


What is it the rich man wants The poor man has,
The honest man steals,

## The dumb man says,

The barren ground grows,
And a poor fool knows?

"The answer is 'Nothing,'", said the throat something like a gurgle, a giggle



Peter's Disgrace.


Peter's Disgrace.

## What have you been about? ? <br> The puppies ralsed a shout Of "/ Peter, naughty Peter

$\qquad$ answer?
His face like ink appears, dropping
Come blinding, tears.
The pot of paint was Right there, outside the It really was too temptBut now he's feeling sore. sadyly, are smarting
His conscience tells him true
learuing a pisce to syeak at a pienic.
 act commany tones. The old man said to his son one tiure.
 And try it on you some sum.

## nd the son replilied, atter careful

 mught name has 'em for sale:
cousin dokotil)
william oster, of Jothns Hopking and
Serod, tells this story: $A n$ old darky
the South, was passing the house of

$\qquad$
$\qquad$
with the original methods she adopt-
ed to ure jiumme of smoking , or,
to sue ner to use her own words, "Mo let him
broalk, himself of it as quick as he
could, could." By the smell upon his clothes she knew he had begun with a very mild quality of tobacco, the never betrayed his secret Jim never "let on " that to her it was no secret at all, but just allowed the lad, who seemed already
to have a very real regard for
oind her groaning and monnime

$$
\begin{aligned}
& \text { to find her groaning and moaning } \\
& \text { with an imaginary ear-ache: " }{ }^{\text {Pr }} \text {, }
\end{aligned}
$$

set, and moaned. Just only one
thing would relieve me. Sweet ile?

$$
\begin{aligned}
& \text { No, I wanted t'bacco smoke blowed } \\
& \text { into my ear. }
\end{aligned}
$$

the stuff. The hired man was out.
If I only had a pipe I But, no, I

$$
\begin{aligned}
& \text { can t blow into my own ear, can I ? } \\
& \text { Pretty soon I see Jimmie trying to }
\end{aligned}
$$

screw soon courage to say something.

$$
\begin{aligned}
& \text { At last it came, I Iot a pipe, but, } \\
& \text { I ain't got no smokin', 'Welt, }
\end{aligned}
$$

$$
\begin{aligned}
& \text { I ain't got no smokin'? Well, } \\
& \text { says I, 'you skip out into the wood- }
\end{aligned}
$$

$$
\begin{aligned}
& \text { says 1, ' you skip out into the wood- } \\
& \text { shed and you'll find a bag of t'bacco }
\end{aligned}
$$

$$
\begin{aligned}
& \text { shed and you'll find a bag of t'bacco } \\
& \text { hanging on the rafters; I brought } \\
& \text { it }
\end{aligned}
$$

it along for sheep dip; In a min-

$$
\begin{aligned}
& \text { ute the boy comes back with the bag } \\
& \text { and a corn-cob pipe he had once }
\end{aligned}
$$

$$
\begin{aligned}
& \text { and a corn-cob pipe he had once } \\
& \text { surreptitiously brought from the }
\end{aligned}
$$

$$
\begin{aligned}
& \text { surreptitiously brought from the } \\
& \text { hired man. There wasn't nothing }
\end{aligned}
$$

$$
\begin{aligned}
& \text { mild about that stuff out there in } \\
& \text { the wood-shed. }
\end{aligned}
$$

the wood-shed. It smelled like

$$
\begin{aligned}
& \text { durnin rubber, and old boots, and } \\
& \text { shocin' horses. I wrapped my head }
\end{aligned}
$$

$$
\begin{aligned}
& \text { shocin' horses. I wrapped my head } \\
& \text { up tight, except just one ear, so's I }
\end{aligned}
$$

$$
\begin{aligned}
& \text { couldn't sinell the a wful stuff, an' } \\
& \text { Jimmic started out bravely. but I }
\end{aligned}
$$

$$
\begin{aligned}
& \text { Jimmie started out bravely, but I } \\
& \text { wasn't relieved until I see the boy }
\end{aligned}
$$

$$
\begin{aligned}
& \text { wasn t relieved until I see the boy } \\
& \text { was gettin' all, he could stand and }
\end{aligned}
$$ just a little more. Then I came round pretty quick, and flew round and got supper, an' called 'em in : the matter ?' you say. ' What was what was the matter, and started out to find him. 1 found him in the barn, doubled up on a pile of enough to lell me to have strength 1 knew he wanted to. It wasn't dark yet, and I knew by his looks that earache wasn't the only thing dw such a looking boy with those copper-colored freckles on a kind o suspected me, but I heard him telling the new hired man the other could get along all his life with pa smokins, he could too and cruessed his pa was just as good as nybody s pa, snioke or no smoke Frankio was cured of that and other habits by methods almost as heroic, but as Mrs. Jim remarked, "medies," and her treatment was probabiy far more effectual than Just let me ketrh 'em using the Jim's last words of wisdom, regrard ing her more diplomatic system of training, ${ }^{\text {are }}$ worth quoting:

"Habits is like horses. Them that well broke as them you ain't half a coursulf." ${ }^{\text {as }}$ I nder the heading of "A Cure for
Sirikes," we pet some racy" bits as wise boy-management. As a prepacamping, the lads learn time out housekeeping art-how to cook, how
to bake, how to wa h dishes, and hoss on a "ampin' trip,", sans salways Mrs. Jim. " "hen n buy's off the $=4$ 2 $=4 \cdots-2$ an


## 


$\qquad$
$\qquad$

年


SPECIAL MAY SALE OF PIANOS

An offering of well-known and regularly higher priced instruments that have been but slightly used, together with a few others taken in exchange for GOURLAY Pianos, "Canada's most nearly perfect instruments." All are in excellent order and are guaranteed for five years, the same as the most expensive new piano in our warerooms.

Anyone wishing to economize in their piano purchase should investigate these bargains-they are exceptional.
Marshall \& Wendell $\begin{gathered}\text { Handsome Square Piano, thoroughly reconstruçeded, repolished and } \\ \text { new parts throughout, } 7 \text { octaves, carved legs and }\end{gathered}$
tone. Originally $\$ 350$. Sale Price........................................................ $\$ 107$
Hointzman \& Co, 73 Octave Modern Square Piano, by Heintzuman \& Oo., in the besto
Dunham \& SOMS $\begin{aligned} & \text { A very rare bargain. An elegant } 7 \text { Octave Square Piano, possessing a tone } \\ & \text { rarely } \\ & \text { Oqualed ing in upright, except at a much higher price }\end{aligned}$
8600. Sale price. rarely equaled in an upright, except at a much higher price. Originally
$\$ 138$


Dominion $\begin{gathered}\text { Upright Piano, walnut case, three pedals, overstrung scale, fall iron frame, mandolin } \\ \text { attachment, very }\end{gathered}$$\$ 178$
$\$ 189$


Mendelssohn $\begin{gathered}7 \lambda \\ \text { pedala } \\ \text { pedave ivory and ebony }\end{gathered}$

$\$ 254$

Gerhard Heintzman $7 \lambda$ Octave Boudoir (irand Upright tiano, walnut case, full length music
Mendelssahn 74 Octave (abinet Grand Piano, in very handsome walnut case a new piano, but $\$ 274$
.... $\$ 285$
Gerhard Heintzman $\begin{gathered}\text { 7t Octave Upight Piano, in walnut case, full length panels carved in } \\ \text { relief, Boston fail board, three pedals, etci; ;iust like new. Manufac- }\end{gathered}$
Gerhard Heintzman 7 Octave Upright Piano, large cabinet grand size. new desing. containg
$\$ 293$
Kng monlus. Manufacturers (rice, s.on. Sale frice.................................. \$325

\$365
THERME OF PAYMENT
Pianos under $\$ 150-\$ 10$ cash and $\$ 4$ per month.
Pi:imos under $\$ 250-\$ 10$ cash and $\$ 6$ per month
Pi:ithos under $\$ 250-\$ 10$ cash and $\$ 8$ per month.
Pianos over $\$ 250-\$ 15$ cash and $\$ 7$ per month.
A discount of ten por (cent. allowed for cash settlement. We guarantee every instrument, ship subject
gourlay, WINTER \& LEEMING
188 Yonge Street, Toronto.
Hamilton-66 King Street West.
don't give her the feed you ought to give her yourself.
Perhaps the crowning reward came to the stepmother when, on his 15 th
birthday, Jimmie finds the old store-room cleared out, and fitted up boy-fashion with books, pictures and tools, and "the rifle he had been
teasin", for so long", teasin for so long," a liberty hall
for himself and friends. She hears the door ofen, at the head of the stairs and Jimmie's voice saying:
"Just look round, fellers; IM Lll be "Just look round, fellers; I'll be boy comes in with his eyes slother
and all he can say is © Oh, mother but he flings his arms around my neck, an' pulls my hoad down and
kisses me right on the kisses me, right on the lips, an' ${ }^{\text {I }}$ Ielt more'n paid for all the trouble I'd taken." ${ }^{\text {Pand surely }}$ we may concede that she had certainly earned
it. But we have not quite done yet with the sayings and doings of the
second Mrs. Jim. We nust stil devote to her another column of our
Home Magazine.
H. A. B. (To be continued.

## Domestic Economy

## CHiLDREN'S TEETH

It is a very common impression
that the milk teeth of children need that the milk teeth of childrens need no dentist's attention, and that the
sooner they decay and fall out, the sooncr they decay and fall out, the
sooner there will be room left for the per,manent tecth to grow in; but this is a popular error, for the second or permanent teeth owe their
character in some measure to the character in some measure to the
condition of the first set, and any defect, either in shape, Fosition or texture on the part of a milk tooth,
is apt to be refecter is apt to be reflected in the corre-
sponding second tooth. sponding second tooth. Therefore,
when a milk tooth becomes decayed it should be cleansed and stopped by a dentist, and if the teeth are pro-
truding or malformed, the use of truding or malformed, the use of a
frame or of other means, by which trame first teeth can be trained in the
the way they should go, will lead to the eventual possession of more even and regular and sounder teeth.
Even in respectoble
Even in respectable and otherwise
particular familics it ind mon to tind the children are excused the ordeal of brushing the teeth until the second set have arrived. This
neglect is most pernicious and quite unpardonable. As soon as a child can wash his own hands and face,
he slould be taught to brush his teeth, and before that time they should be regularly cleansed for him.
Every child should be taucht as soon as possible to rinse out the mouth after every neal, for there is no the decomposition of decay than food lodged between the teeth of even brushing without the act of
rinsing the mouth will not always remore.
The
The principal cause of decyy has
already been indicated already been indicated-namely, the
decomposition of food particles tween the tecth, which gives rise to the formation of acids which nenen-
trate and corrode the dental en-
 Next comes the question of foods.
All hot foods are injurious to the
eeth, for they are ant to erect enamel, just as hot water will crack a giass, and, once cracked, the en-
ammel is sure to amel is sure to decay. Children's
food should be given as nearly as possible at blood heat or slightly less, ; never above heat or slighty
Cold fluids taken that temperature. Colid fluids, taken with or immediate-
ly after hot foods, are 1y after hot foods, are also apt to
crack the dental enamel ; indeed, Crack the dental enamel; indeed,
any subdin change of temperature is
lhad ior the toctle 1aid ior the tecth.
deray mint more quich dishes lead to and frutat Mare, Mlyichly than plain
ane and animal foods


any ard, should be mirenry, or
an the
simpe of pills, or within cansulos



Thave just been thinking that, now over, some of you will have come during the operation. have arranged your rooms to your liking; you will have learned a few things by mistakes which you have plans to be carried out during the fall season of overhauling."
So many people now, you know, do their papering, etc., when the dust of summer is a thing of the past,
and there is need of installing new and cheery things to counteract the effect of the dreary winter. So, I have thought that a new sublect for
discussion, bearing on the question of kouse-furnishings, might be interesting, instructive, and opportune. Our subject, then, will be, "My Ideal. Dining-room and Sittingcurtains, carget and furniture you would use, adding, if possible, the probable cost of each. Pay parscheme," and give a few hints color arrangement. Last of all, make your letters as short as you can, and easy in style ; I am well aware can be neither. Now, I know every woman loves to plan ideal apartments, so will hope for a number of letters on this subject that will be interesting and helpful to us all
Address,
DAME DURDEN. Farmer's nipeg, Man.

## ystem.

Dear Daine Durden,-Housekeeping, ights, and after years I enjoy it more and more. I always try to do everyittle waste as possible. In this wave as get time to read and play, when, in the days, before 1 put thought into my diytwas a slave to it , driven instead I love bo work, I I love irls. The trouble with so many of our girls is that they have never been taught, and they either want to do things well, cause housework is ." or don't care, be we can teach them to ". mix work with develop a class of wonderfully happy, better than a clerk's place will love home better than a clerk's place behind a coun We Western women have great issues in
our hands. Our brave men may raise heat and stock, but never at may raise only as they go forth from ideal homes, he chance to control environment, if we can but realize it. You see, I am an
enthusiast on these lines-indeed I am. I like your department ; it is good. I've a few others, so I imagine I am need the co-operation and sympathy of the women you are trying to reach-for is important, but to help others we always need to be helped. None of us stand alone. ing is to be evatematic ips in housekeepplace for everything, and that each task, is the rule that helps me more解 In the winter, after the holidays ar quilt is put in repair, new Every tied, and all the piecing donc. By doing After the heavy bedding come the sheets. are turned, common pillow slips made
ones that will be needed for the year ar
all made and laid away. I've ofte found a willing " " masculine "' hand ofte run the sewing machine on a stormy winter day, and that is a great help.
After the bedding come the Arter the bedding come the muslin
underwear, summer skirts, ehirts, etc. then in March the wash dresses are made for the summer, A seamstress for ${ }^{\text {a }}$
while at this time is often a great sav while at this time is often a great sav
ing ; by having her one gets all thes ing; by having her one gets all these
things done and ready before the heavy spring work comes, when the days are longer, and there are more men to cool for, and the garden and poultry need at In June and July I pack the extra eggs In June and July I pack the extra eggs ast then, and the quality of butter best, and the fruit season not being on then there is more time. I've packed, some
times, as many as one hundred dozen times, as many as one hundred doze
eggs, even buying many from my neigh eggs, even buying many from my neigh
bors, and these eggs not only help us
over the winter over the winter, but often the neighbors
come and buy them back at a profit. come and buy them back at a profit.
The care of a home and its business management is a beautiful work in life and the more skilfully and sensibly we see to it the more lovely it becomes. By
loving our work, and trying to see how loving our work, and trying to see how
nicely and profitably we can regulate our nicely and profilably we can regulate our
alfairs, we can gain a greater success; and we all love success. We spell it with a big S every time. We can only control a home well, with all its complex interests, as we learn self control. One regular habits of work, so that we better to avoid the drag and consequen fretting, substituting something better

Recipes from Juanita.
Sponge Cake,-Break two eggs into a
measuring cup; fill up with sweet cream: add a pinch of salt; make into a batter with one cup white sugar and one and a
half cups of flour, into which has been sflted two teaspoons baking powder Flavor with lemon extract. powder Fig Pudding. - Half a pound suet; onc
pound chopped figs; half a pound bread crumbs ; half a pound of sugar; one cup powder; one nutmeg; one egg; milk, enough to moisten.
Flake Pastry.
cup of butter; half a tablespoonfulf a emon juice; one cup of flour, and water
enough to mix.

## Re Butter-worker.

he legs of the the butter is very firm so that the cross pieces below will dreat out. To prevent this I have four small leg, and near center of front cross piece between legs. The hooks are screwed
into cross pieces near the ends and hooking these the legs can move very the slats of a bed when they begin drop out; a hook in each end of slat, bed holds them secure
DESIRE-TO-HELP

For Dandelion Time.
Dandelion Cordial.-Take 1 gal. dandethree days, then strain. Add 3 lbs.
sugar,
3 sugar, 3 sliced lemons, and 3 sliced
oranges, and boil. Take off, and when oranges, and boil. Take off, and when
lukewarm add half a yeast cake. ferment, then bottle and keep in a cool place. It should be ready in a month.
For using, put one tablespoonful of the cordial to each glass of cold water. Pour chlorides down plpes, or, per-
haps better still. cauctic soda which cuts the accumulated grease. $=4$ $=x^{2}=x^{2}=$

SEND YOUR NAME AND ADDRESS FOR COPY


Sixteen pages of pictutes and descriptions, premiums.
And four pages of the best Recipes we could seect for Cakes and Cookserts. Homemade Desdies, etc - every liable, simple and rehable, simple and eco-
nomical. Don't put it off. Send

BLUE RIBBON winnipeg. ${ }_{\text {Dept, FA. }}^{\text {MANITOBA. }}$


## We Want Your Cream

We are prepared to pay highest prices for butter-fat. Guarantee correct tests and prompt payments. Write for our latest

Crescent Creamery Company
${ }_{23}^{236-240}$ King street, Winnipeg, Man.

## anybody can make good pictures by the KODAK <br> Better results than the

## Kodaks

 $\$ 5.00$ to $\$ 108.00$ $\$ 2.50$ to $\$ 10.00$Canadian Kodak Coo, Ltd., Toronto, Canada.

ADVERTISE IN THE FARMER'S ADVOCATE.

THE FARMER'S ADVOCATE


## 125 Pianos and Organs

To reduce stock to summer level, reductions. They include

45 New-Style Uprights 45 Used Uprights and Squares 25 New and Used Organs

Prices range from $\$ 25$ to $\$ 300$ Terme from $\$ 2$ to $\$ 7$ monthly. Shipped anywhere in Canada to-day for full particulars and catalogue.

Layton Bros.,


## - TENOGRAPHY

s





## EE walworth EE



REVOLVERS
are the BEST

catch - and wirl ine-never
charge accidentally.

HIRRIIGGON \& RICHARDSOH ARMS CO.
356 Park Avenue,
WORCESTER, MISS., U. S. A.


Turns mothers, drudge
Into childers play


$\qquad$
Thomas Brothers, Limited.
WOULD LIKE EVERY WOMAN to
,

$D$

 My 26 years' experience in the Canadian West can be of value to you in selecting land for a home
or investment. Let me know what you want and I will be pleased to select for you or assist you in doing so.

320 acres first-class land, 2 miles from Regina, capital of the Territories, well improved, new house cost $\$ 2,700$. Price, only $\$ 30$ per acre; terms very easy cross fenced, black loam land, clay subsoil. Price, $\$ 10,500$; terms acres cultivated, all fenced and acres at cost of seeding if sale is made soon.
a sections prairie land, splendid quality, near Davidson, Assa, at $\$ 6$ per acre, easy terms.
For further particulars address,
W. IN. IRIEID,

P-O. TOL: 371, TRegoina, Assa.

Kill the Vermin on Your Stock



## Toronto Horse Market

 The local horse market displayed strongrecuperative powers during last week, and


## PATLY STOCK FARM

KILDONAN, MANITOBA.
CLYDESDALES, THOROUGHBREDS and HACKHEYS, SHORTHORHS, golden whandottes, INDIAN ruwner ducks, etc.

William (imp.).
 champion of America; hieaded by hugh heifers and Archer, brother to the great Ceremonious Arch
End of St. Ry., ST. JOHN'S, WINNIPEG.



EGGS FOR HATCHING

$\qquad$ about whence we come, whither we go.
We are here. That is the one sure
thing. For the most part of our work seems to be laid out for us. To dig in-
to it cheerfully and earnestly-that will give us the most plasure that we shall
get out of life, nnd it is likely to fit us
pretty well for whatever is



Advortloomeots will be tngerted undor thle yit mitione wanted, and micellianoous ad aver

 $\mathrm{B}^{25}$ Eouta,








 $\mathrm{F}^{0 \mathrm{O} \text { manppini improved and unimproved (aime on on }}$










 ThRESHING OUTFITS FOR SALE


The Jotho Abell Englne \& Machine Worlis Co,

| $\begin{aligned} & \text { POUNTRY } \\ & \text { CEGGOS } \end{aligned}$ |  |
| :---: | :---: |

Condensed advertigements will be ingerted
inder thinh heading at one cent per word
oach nseotion. Each Initial country for one ward
 parabred poutry and egge for eale willt ind
1onty of oustomers by uking our advertising olumns



 Sing pair of Pekin pucke for sale. Write S.
ligg, 128 River Ave., Winnipes.




Barred Plymouth Rocks, Silver-spangled Hamburgs and Pearl Guineas.


## Winter Wheat

ONE CROP PAYS FḠR THE LAND


The winter just past was considered a very severe one, but not a single field of Winter Wheat in the Calgary District suffered damage from freezing Average yield for the last three years over 30 bushels per acre According to the Government reports, no other district in Western Canada shows as high a general average yield of all kinds of grains as the Calgary District. Write for our booklet, showing 100,000 acres of winter wheat lands near Calgary. Cheap now. Worth $\$ 50$ per acre in a few years.

> Mild Climate, Pure Water, Sure Crops and Cheap Fuel.

CALGARY COLONIZATION COMPANY, Ltd.
Calgary, Alberta, Canada


Have Restored Thousands of Canadian Women to Health and Strength.
Thero is no need for so many women to
uffer pain and weakness, nervousnose sleeplessness, anxemia, faint and dizz) spells and the numerous troubles which render the lifo of woman a round of sickYoung girls budd
who suffer with pains and headaches, and Whose face is palo and the b bood waterery,
will find Millurnis Heart and Ner will find Milburn's Heart and Nerve
Pills help them reatly during this period. Pills help them greatly during this period.
Women at the change of life, who are nervous, subject to hot flushes, feeling of
pins and necedles, palpitation of the heart, pins and needles, palpitation of the heart,
etc., aro tided over the trying time of etc., are tided over the trying time of
their life by the use of this wonderful remedy. Le has a wonderful offect on a woman's system, makes pains and aches vanish,
brings color to the pale cheek and sparkle to the eye.
They build up the system, renew lost vitality, improve the appetite, make rich,
red blood and dispel that welk, ticed red blood and dispel that weak, tired,
listless, no-ambition feeling.

The T.Milburn Co., Limilted, Toronto, Ont.
ADVERTISE IN THE ADVOCATE
$\left\lvert\, \begin{aligned} & \text { rise of temperature. } \left.\begin{array}{l}\text { This lest is very } \\ \text { delicate, and can only } \\ \text { hands used by skilled }\end{array} \right\rvert\,\end{aligned}\right.$ It is now almost universally believed tion in minimols that causes consump-
Which the same as that
 in cattle, and that found in birds difirers
from cither, but they can all he modo after artificial treatment to assume com-
mon characteristics. The following expwriment performed by
the late Protessor Nocard will help to clucidate this point, he took some of
the microbes from man and placed them
in In capsules, and inserted the capsules into
the albdominal covity of fowl they were
nillowed to remain for three or four months, and then passed on or othr
foull and so on for four succesive
generations. micr obes were taken out of the capsules
and injected into healthy fowl, and they Itroduced the disase in the latter just as
the ordinary fowl microbe. Whereas, if
the injuected directly into fowl, they would
not wan and not produce consumption of the latter.
The extinction of the disease is a mat Co of more importance to the State than
to farmers : nevertheless, it is the farmTh orterest to take every precaution for
thad thosication of which ho has dreaded disease, follows: Get all suspicious ani nals fat-
tened and sold off; have your herd tested
with nnimals thant react to the ride of all the
nnimals introduce nel new dested before being allowed 10 mix with
the onthers REBCORD FLAX SHIPMENT. - The Fort William recently with cleared trom Port, being loaded with nearly 200, oon
W.ishels. valued at
$\$ 250,000.00$. (iin) winn mime hy Thompson, Sons \&



MAY \& JUNE
are the Best Months to Make Money Raising Chickens
Chicks hatched then grow more rapidly and require less care than at any time of year, and the knack of running the business successfully is acquired under the most favorable circumstances. One good May or June hatching will bring out a brood of chicks
that sell about October 1st for enough to pay for an Incubator and another batch can then be started that will get the chicks out in time for the Christmas market. The next batch will be ready for the March and April market, "broilers" commanding the very highot A good Incubator is the foundation of real auccoss in poultry raising, bringing the whole matter from guess
vork to certainty. Wo furnish you with a

## Chatham Incubator

on easy terms, No cash to pay until November, 1905. By that time it should have paid for itself. Nothing else raised on a farm pays like this, and the beauty of it all is that the women folks or children can
easily attend to the very small amount of work there is to be dona. Half an honr or en easily attend to the very amall amount of work there is to be done. Half an hour or so $a$ dey is all the time

Getting the right Incubator is pretty nearly the whole thing. The Chatham is the safest and suregt Incubator made. It does the trick; 100 per cent. hatches every time
if the eggs are fertile. Rather than go into details of construction here, we will print few out of many hundreds of testimonials: Brighton, Ont., Aprll 15th, 1006. The Manson Campbell Co., $\begin{gathered}\text { Chatham, Ont. }\end{gathered}$
Doar Bir, $-\mathbf{I}$ told you when I received my Incubator
and
Ihroroder that I would det ou know what sucooes





 P.S. -I would rather attend to an Inghton, Ont.
ono hen now. There is some antistaotion in tronthing that if you look after them you will get chicka.


 Youre truly, JOHN ROBSON,


MANBON OAMPBELLL

We have similar letters from every State in the United States, and every Province in the Dominion.
Every Incubator we put out is the best kind of advertising we do, for it sells many others for us by its never failing results.
The Chatham is built on honor, and its construction and workmanship are as perfect as in experience of fifty years and ample capital can make them. The Chatham was the first Incubator made that was good enough to admit of its makers

FREE BOOK.
A Complete
Guide
to Poultry
Profits. Don't imagine for a mom fo
Don't imagine for a moment that it is any longer possible to make big poultry profits by If these erratic, uncertain birds are kept busy egg-laying inste
etting, the poultryman will pocket a good many extra dollars in mrofed of wasting their time
If you want to get full particulars on the subject and learn all the details of successful
Incubator hatching and profitable poultry raising send to-day for our superbly printed book,
"How to Make Money Out of Chicks." It's FREE. Send for it now.

THE MANSON CAMPBELL CO., Limited Dept. 2 CHATHAM, ONT.

Distribating Warehouses ab Montreal, Que., Brandon, Man., Calgary, Alta., Nerw Westminster, B.C., and Halifax, N.S
Also Manufacturers of the famous Chatham fanning mills and chatham farm scales.


BREEDERS' DIRECTORY,


 youk prs tor fale.










 H






 J. CHILDREN \& sons, Okotoks, Alta, -Duroo-



 Pomot soo.

 Sidem

 $\mathrm{T}^{\text {R }} \mathrm{R}$



 TTM

 Greeding thook of ot both bexese tor male.







## FREE UNTIL CURED


man need be weak, no man need suffer from the loss of that vitalit and light-heart d, confident of his power both in business and society; fre from spells of deppondencv, nervousness, lassitude und brain wanderings. I Back, Stomach, Liver and Kidney Complaints, in my world-famed Dr. San den Electric Belt with Elentric Suspensory, and I will give it absolutely free until a cure is effected. How can I do this? For two reasons: I have the
certain knowledge that my Belt will cure, and I have confidence enough in mankind to wait for my money until I prove it. This is what every doctor should do, but I am the only one who has a remedy that will stand such a crucial test. For 40 years I have been curing thousands every year, and have
made a tremendous success doing business on this basis. NOT ONE PENNY ever. All I ask is that you pay me the usual price of the Belt when ruredin some cases not over $\$ 500$. I will leave you to be the judge, and will take your word for results, or for cash I will give full wholesale discount. Forty
years' continuous success has brought forth many imitators. Beware of years cou can try the original, the standard of the world, free until cured, then pay for it. Call or send for one to-day, also my two illustrated books
giving full information free, sealed, by mail.

## DR. C. T. SANDEN

140 Yonge Street,
TORONTO, ONT
Office hours, 9 to 6 : Saturdays, until 9 p.m.

## If You Have a Farm for Sale

WANT asituation, put an Advertisement in our Ads. Always Bring the Best Results.
The William Weld Co., Limited, Winnipeg, Man.


Special Notice To Farmers

Our big Wire Factory is now under way manufacturing an. will hetp you

Munro Wire Works
Limited, - Winnipeg, Man
STAMMERERS

## Cockshutt Plows



Cockshutt Plow Co., Ltd.
Factory : Brantford.
WINNIPEG

ARE ALL HIGH-GRÁDE

The accompanying cut represents our 1905 Improved J..(.C.C. Sulky This plow needs no introduction to the farmers of the Northwest, as it has been in the market for many years and is being used at the present time by thousands of satisfied customers. It is strong and easy to operate, and as a breaker in hard, rough land has no equal. For this season we have substituted a heavy double bar axle, strong steel wheels, the land wheel being much higher than on the old "plow, which makes the plow runsteadier and easier. We have also altered both levers, and they are very convenient and casy to handle.

The J.G.C. can be adjusted to cut 14, 16 or 18 inches. Catalogue describing our full line of Gangs and Sulkies furnished on application.


## LAST MOUNTAIN VALLEY

Steamboat service now in operation.

Railway service to Strassburg by July.

WRITE FOR FREE BOOKS, MAPS, etc.

"OPENING OUT NEW FARM,

The finest Wheat Land in North-east Assiniboia. "A section is a fortune." Average crops for five years, 25

## WM, PEARSON \& CO.

 WINNIPEG, MAN.
## Waterous Double-Cylinder Traction Engine

Waterous Winnipeg,
Man.
Write for
Catalogues
Catalogues.

## CARNEFAC STOCK FOOD



## BRITAIN'S BEST BLISTER STEVENS' OINTMENT <br> as used in the Royal Stables. It is the re- sult of a lifetime's knowledge amonk lame horses saved up and givenn to yon in incon- centrated form for use on your yame or discentrated form ior use on your lame or dis- figured horse. It will surely cure spint, spavin, Curbo Rinbone and all enlarge-  Price 75c. small, s1.50 large box, A little goes along way, Get abo bow. If your local chemist cannot supply you, write direct to <br> Martin, Bole \& Wynne, Winnipeg, Man. Western Agent <br> America's Leading Horse Importers



At the Great St. Louis World's Fair were awarded the "PREMIER CHAM
PIONSHIP" of Percheron Horses:
Summary of Winnings:
$\begin{array}{ll}2 \text { Grand Champions } & \begin{array}{l}3 \text { Rronze Medals } \\ \text { Reserve Grand Champions } \\ 58 \\ 58 \\ \text { First Prizes }\end{array}\end{array}$
${ }_{9}^{5}$ Gold Medals
${ }_{6}^{7}$ Frourth Prige

McLAUGHLIN BROS.
St. Paul, Minn. Columbus, Ohio. Kansas City, Mo.

JOHN CHAMBERS \& SONS


Holdenby, Northampton, Eng. Farm over 2,000 arres of land just in the
centre of the shires, and breed the very
beets SHIRE HORSE which from birth are kept in their natural
condition, neither forcing nor overfeeding condition, neither forcing nor overfeeding
for showing purpoese
Canadian buyers visiting England are inthem and obtain their stallions and mares direct from the men that breed them.
No fancy $\begin{aligned} & \text { prices, } \\ & \text { Lita all delivered free }\end{aligned}$
Liverpool landing stage. Correspondence invited.

## ALEX. GALBRAITH \& SON

Brandon, Manitoba.
After a most successful season of sales we still ave on hand a selection of strictly high-class

```
PERCHERON SUFFOLK COLTS And to close out will sacrifice on price. If
in need of a stallion, write at once.
JAMES SMITH, MANAGER
SRANDON, MAN
```



n answering any adfertisement on this page, kindly mention the FARMER'S ADVOCATE.

## Make More Millk Money.

If you knew a way by which you could double your profits from your milch cows and at the same time save yourself a lot of hard work, you'd want to adont it at once. Well the

## Empire Cream Separator

 will do that thing for you. We want to show you how and why It's the simplest separator made; has few parts; nothing to get out oorder; turns easily; skims perfectly ; is easily cleaned; is absolutely safe; lasts longer; ;ives better satisfaction and makes more money for you than any, other-all because it is so well and so simply built
 man who buys it is satisfied. May our agent call and show you how it works? Don't buy a separator until you have investigated the Empire.

SEND FOR CATALOGUE. Let us send you our new Catalogue. Ask for book No. 1h,
Fimpire Cream Separator Co. of Canada, Ltd., Toronto, Ont. Ontario Wind Engine ea Pump Co., Winnipes, Manitobe

The House You Live In will want renovating as usual this season. CHURCH'S COLD WATER

## ALABASTINE

on the walls will produce finer effects, and make you feel better satisfied with the work and with yourself than anything else that can be used.

ALABASTINE is a cement coating that hardens with age. Kalsomine preparations, under whatever name or claims, are only temporary, always rubbing and scaling off. Wallpaper, with its mouldy paste on the back, and arsenical poisonous coior dom a room with disease germs. papered--the reason is obvine. Hardware and Paint Dealers everywhere sell it

The Tlobastine Co. limiled

$\$ 4.75$ WATCH $\$ 4.75$




THE NORTH WEST WATCH BPEOIALTY CO.:
B39 EIgIn Ave., WInNi
Special Notice to Our Readers. When writing any advertiser in this issue
kindily state plainly that you saw Ado in the FARMER'S ADVOCATE AND HOME MAGAZINE

Prize List Calgary Show. $\left\lvert\, \begin{gathered}\text { Prize List Calgary Show, } \\ \text { Hereord wulls, three years old and } \\ \text { over-1, King of Cedar, owned by P. F } \\ \text { Huntley, Lacombe ; 2, Frosty Night, R. }\end{gathered}\right.$ Huntley, Lacombe ; 2, Frosty Night, R.
Sinton, Regina ; 3, Beau Silvan, R. Sinton; 4, Monitor, R. Sinton; 5, Bonny
Brae Heiod, O. Palmer, Lecombe. Brae Heiod, O. Palmer, Lacombe.
Herefords, between 1 and 2 years old1, Chief, P. F. Huntley i 2, Bonny Brae
Hessiod 16, Oswald Palmer ; 3, Bonnie
Brae Hesiod Brae Hesiod 13, o. Palmer ; 4, Cousin
Jonathan, R. Sinton ; 5, Gibraltar, R. The championship for the best Hereford bred in the Territories was won by Bonny
Hereford cows-1. Plane of Red Deer, Mossom Boyd Company, of Prince Albert; John Ross, of Medicine Hat ; 4, Con-Aberdeen-Angus bulls, any age-1, Pop-
lar Bluffs Prince, Johy Morto, lar Bluffs Prince, John Morton, La-
combe; 2, King of the West, J, Capon,
Blackfalds: 3, Red Deer Sampson, John Blackfalds; 3, Red Deer Sampson, John
Morton ; 4, Red Deer Ranger, J. Morton. Galloway bulls, any age-1, Mayor
Hope, Thos. McMillan, Lineham; 2, Challenger of Hope, T, MeMillan; 3,
Prairie Jan, H. N. Perry, Cardston; 4, Prairie Maj, H. N. Perry.
Shorthorn bulls three years old and over-1, Alberta Prince, D. Sinclair, In-
nisfail; 2, Monarch of Grand View, H. J. Scatt, Innisfail, 3, Duke of Idylwyld, H.
Talbot, Lacombe ; 4, Royal McGregor, P. Talbot, Lacombe : 4, Royal McGregor, P.
T'albot \& Son, Lacombe ; 5, Alberta's
Hope, C. W. Peterson. Shorthorn Hope, C. W. Peterson. Shorthorn bulls,
two years-1, Craftsman, J. \& W. Sharp,
Lacombe : 2, Dundonald, J. \& W. Sharp: Lacombe ; 2, Dundonald, J. \& W. Sharp;
3, Lord Montrose, J. L. Walters, La-
combe; 4, Commodore, A. S. Blackwood,
De Wint De Winton ; 5, Trout Creek Marquis, John
Raman Ramsay, Priddis. $\left.\begin{array}{l}\text { Shorthorn bulls, } 18 \\ \text { months and under } \\ 2\end{array}\right)$ years-1, Claverhouse, J. \& W. Sharp; 2, Crimson Lad-
die, A. F. McGill, Lacombe ; 3, Mc-
Gregor, Gregor, T. Talbot, Lacombe ; 3, Mc-
macombe ; H. 4 , TalisBruce, J. L. Walters.
lings-1. Shorthorn year-lings-1, Spruce Vale Hero, H. McPher-
son, Calgary ; 2, Damby David, J. \& W.
Sharp; 3, Birch Nut, C. W. Peterson Sharp; 3, Birch Nut, C. W. Peterson,
Calgary : 4, Mabel's Heir, H. Talbot ; 5.
Coulee Lad, F. B. Watson, Lacombe
Rest Shorthorn bull, bred in the TerriRest Shorthorn bull, bred in the Terri-
tories-1, Monarch of Grand View, H. J.
Scott. Best Shorthorn bull-Alberta
Prince, Dinclat. Prince, D. Sinclair.
Shorthorn cows, 3 years and over-1,
Melba, P. M. Bredt, Regina; 2, Romance
Canadian M. Canadian Land and Ranch Company ; 3,
Nectarine Nectarine, same owners; 4, Baroness
Alugaal, Wm. Beresford, Calgary. Shorthorn cows, 2 years-1,. Silver Sea, Cana-
dian Land and Ranch Company ; 2, Whis per, same owners. Shorthorny yearlings-
1, Venita, J. \& W. Sharp, Lacombe. Cornal, J. \& W. Sharp, Lacombe ; 2, Loyally's
Rose, John Ramsay, Priddis. It was a little boy in an American
Sundwy school who, in reply to his
teacher's question, "Who was the first
man ?" answered ". George Washington,"
and, upon being informed that it was
Adam, exclatimed : ". Oh, well, if you are,
speaking of foreigners, perhaps he was !"


Turns Bad Blood into Rich Red Blood.
No other remedy possessies such perfect cleansing, healing and puri fying properties.
Externally, heals Sores, Ulcers, Abscesses, and all Eruptions.
Internally, restores the Stomach, Liver, Bowels and Blood to healthy action. If your appetite is poor, your energy gone, your ambition lost, B. B. B. will restore you to the full enjoyment of happy vigorous life.

RED POLLED BULL?
The best for boer and butter. We have some
good ones for sale, and the price is right. H. V. CLENDENNING, Bradwardine, Man. For Sala: 12 Head Aberdeen-Angus RULLS-Registered-From one to two years
old. Well-bred stock; raised in the north. No
fancy prices. Will aloo sell few cows and
foll heifers.
NATHA RM PERA NOVA 8TOOK FARM
HERDOF
ABERDREN-ANGUS ABERDEEN-ANGUS CATTLE.
 Prioes reasonablo.
S. 1 iartin. Rounthwaito, Man. At present I PM omoring for ole ways beral bull

 Shopthorn Bulls, Heifers and Heifer Calves for Sale The get of Sir Colin Camptell (imp.) - $28878-$
and General - $30399-$ Cows all ages, in calf or
 heep, both Geo. Rankin \& Sons, Hamlota, Man. Drumrossie Shorthorns-"Drum rossie Chiof"
Chief" $=68066=$ at head of herdi= and "Ooung thinge


FARM 3OMKS. The farmer's home without an Agricultural Library is lacking in one of the chief aids to pleasure and success, We hav 3 ,
luve stock.


Foeds and Feoding.-Henry. 600 pages.
va. 0 . 0 .
 Live-stock Judeling. -Craig.
only work on this subjeot.

GENERAL AGRICULTURE Agricaitar
cent.
Chemistiry
Dhemistry of the Farm,-W Warington. 183
page. 1.00 .
armyard Manure.-Aikman. 65 pages. 50
cente.
suceessfal
 Agricaltural Hotany.- Percival. \$8.00.
very uaetul book for student farmers.
 pages. 1.50.
Fertill
81,25 of the Land.-Roberts. 415 pages.

HOW TO OBTAIN TMESE BOOKS, - We will furnish present sulp



 In answering smy advertisenent on thes page, kindly mextion the FARMER'S ADYOCATE.

NAY 31, 1905
cossum the trime to sell When my father was a backwoods lad. says a writer in an exchange, he and his brothers made a trap tor wild turkeys. was a rail pen in the woods, with tring was oulle that would fall when id . was pulled. From this door he lan a trall of corn out along a game frouented path, and corn was placead in side the trap. Then the boys stationed themselves to watch. Fortune favoring , som came a part of ofa turkey end, finding the corn, gatarted onenes upon the trail, picking it grain by grain They reached the pen, some went in and the boys hopes rose More went in AII the young were in then the thing it the broond entered. in ; then the thothe mothe william," whispered the brothers . "Wait till the old gobler goes in," he replied
Pull the strind Pull the string, they Insistod. "Wait the odd hen. .Pul, puli,. .. Wait tial she goes back in." pull," "Wait til came two
Out young turkeys. "Pull the string, wil
liam," was the demand, despairingly . Wait tall they demand, despairingly More came out. Finally the string prisoned, the rest flew awayster was imAfterward when William was a man h hogs. He wanted 12 c ., and held them-
hored oniy to peddle out the dressed meat William was offered $\$ 1.35$ A neighbor of He decided to hold for the inevitah $\$ 1.50$, and sold instead for 93 c . lambs to sell, was ofered seval cars of them. He wanted a little more money than that to make his accounts look just lambs yet, waiting in hopes the old her may go back
The moral ? to scoop the whole pile. The afford so scoop the whole pile. The poo
should be content with the old hen and her fourteen young ones.

TRADE NOTE THF CRESCENT CREAMERY Co.atcractive little booklet has been issued Man. Across the top of the front cover appear the words: "' There's cream in it "' There's money in it for the farmers.' an attractive cut of a milk can, proper-
ly addressed to the company. In the fourteen pages of the brochure is very carefully outlined the system under which
this well-known firm operates. The Crescent buys cream from any make of separator,
although preferring to have it as thick as it can be skimmed without losing any
fat in the skimmed milk. A new upfat in the skimmed milk. A new up
to-date outfit of pasteurization machinery is being installed in the Crescent plant in order that the best quality of butter
may be turned out. This shows that the firm is willing to do its utmost in every respect in
attained. $\begin{gathered}\text { order that perfection may } \\ \text { Bes }\end{gathered}$ amount of information regarding the
creamery business in peneral, the booklet creamery business in goneral, the booklet gives complete shipping instructions and
terms of payment as follows: " If you wish to ship us your cream,
and have cans of your own, you have but and have cans of your own, you have but
to fll and deliver to the nearest railroad
stant ery Company, Winnipeg. We receive it here and pay the express charges on it,
charging same up when making returns.
Should card, and we will send one out by first
train, giving you the use of the can free
for the fingt for the first month to let you see if you are satisfied before asking you to pay for
them. We sell them at actual cost. Our method of payment is as follows: The weam in the month is paid for on th
16 th to 17 th of the same month 16th to 17 th of the same month; th
cream delivered during the last tw weeks is paid for on or about the 2 nd the forlowing month, so by this you are
receiving practically cash for your cream. the above dates he has hut to drop us a
note and a cheque will be sent out to
him at once for the amount due."

## Page Mala Gates=Good=Gheap

Page Gates have the best quality of steel frames, and are put together in a superior way. The filling is galvanized steel wire, and this filling is so fine in mesh that chickens or smallest pigs cannot get through They have double steel braces, each having a strength of $3,500 \mathrm{lbs}$. Hinges and latch are of the best known design.

These are some of the reasons why Page Gates are the best.
We are now supplying these gates at only a little more than you would pay for hinges and latch at a store to make your own gate. THINK OF IT :-A complete Walk Gate all metal, everlasting, ornamental, perfect, for $\$ 3.00$ (see price list), or a large Farm Gate for $\$ 6.50$. At these prices you should show good business sense by using our gates everywhere on the farm that gates are needed. To prove what we say, look at the following prices, at which we or our local dealer can supply you

| Actual Helght of | Wiath of Gate, Including Hinges and Latch, being exact alstance posts should be set apart. |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 8 Ft . | 83/2Ft. | 4 Ft . | $43 / 2 \mathrm{Ft}$ | 5 Ft . | 6 Ft . | 7 Pt | 8 Ft . | 10 Ft . | 12 Ft . | 14 Ft |
| 88 Inches. | 82 | 275 | \% | $8{ }^{* 3} 25$ | 8850 | 8 ...... | 8 ...... | 8 ...... | \$ | 3. | 8 ..... |
| 88 Inches. | ${ }_{8} 00$ | ${ }_{8}^{81}$ |  | ${ }^{*}{ }^{3} 75$ | 875 400 |  |  |  |  |  |  |
| ${ }^{6} 7$ inches. | 850 | 875 |  | d 25 | 450 | 600 | 800 | 600 | ${ }_{7}{ }^{8} 0$ | ${ }_{8} 80$ | ${ }_{850} 8$ |




Note-All Page Gates and Fences are now painted WHITR We have adopted this as a distinguishing mark for our goode Remember, get WHITE Fence and Gates, and you will have PAGE Fences and Gates-the best.

THE PAGE WIRE FENCE CO. WALKERVILLE, ONT.

LIMITED mav TORONTO ST. JOH winnipea

BRANCHES: MONTREAL

"Page Fences Wear Best."

Varicocele=Hydrocele
Gured to Stay Gumed In 5 Days. Wro Cuttling or Paln. Guaranteod Oure or Monev Rofumelor VARIOOGELE Under my treatment thit diseaso Is permanentiy curcedHYDROGELE My reatment for Hydroele and 1 ts complioations are



Ooprespondence Confidentlal Write me your condition fully and you will re H. J. TILLOTSON, M. D., 255 Tillotson Bullding, 84 Dearborn Street, CHICAGO.

## BARGAINS IN SHORTHORNS

Nobleman (Imp.), a Winnipeg winner, of Nonpareil breeding, and Pilgrim (Imp.), a massive, smooth, red bull; also Nonfrat at Winnipeg, 1004 , and Fantrviow Prfnce, same àge, an other winner this year, along with

## FIFTEEN YOUNGER BULLS

flt for service, is JOHN G. BARRON'g present offering for
sale. Mr. Barron is crowded for room, so will dispose of heifers and cows at rock-bottom prices.
JOHN G, BARRON, oarberry, o.p.r., fairview biding, o.n.b.
ARTHER CALTVING

## ST. JOHN'S CONDITION POWDERS

night and morning for a few weeks. They only cost you 25 c . SOLD BY ALL DEALERS
THE MARTIN, BOLE \& WYNHE CO., Proprtotore, Winnipg, Man,
TO SECURE THE BEST RESULTS Place an Ad, in the Farmer's Advocato

Forest Home Farm. CLYDESDALES, SHORTHORNS
YORESHIRES and B. P. ROCKS



 ANDREW GRAHAM, Prop.
Scotch Shorthorns


P. TALDOT \& SOMS, - Lacomit, Alta, THORNDALE ETOOK FARM.


 SCOTCH SHORTHORIS
Members of thlis herd won the two grand
 A dart took bull



We are
PROUD
of Rex Flintkote.

It meets all requirements.

## REX FLINTKOTE ROOFING

A post card will bring you samples and full information.
"Look for the Boy
on Every Roll."

Mackenzie Bros., winirrc, man.

## Dunn's Hollow Concrete

 Block Machine

The JAS. STEWART MFG. CO., Ltd., Woodstock, Ont.

## June 4 <br>  <br> 1905

RAILWAY
Will resume their Through High-Class
DAILY PASSENGER TRAIN SERVICE netwern Winnipeg and Port Arthur JUNE ${ }_{\text {THE }}{ }^{\text {4. }}$ STEAMSHIP EXPRESS
WILL BE PLACED IN SERVICE. A magnificent new train comfort-
able, attractive equipment-consisting of CANADIAN NORTHERN FIRST CLASS SLEEPERS, COACHES OF LATEST DESIGN, EXCELLENT DINING-CAR SERVICE.


BERKSHIIES
Imported and Canadian-bred
f. M. Vandelrlif, Cainsville




Arthur Johnston GREENWOOD, ONT.
offers the following : imp. bulle all reciatered in F . high-class home-bred bulls, all by imp. sires
and from imp. or pure Scotch cows. imp. cows and heifers.
very fine heifers of our own breeding, by imp.
sires, and mostly from imp. dams.
om

## SHORTHORNS

Still have a few good young bulls to offer. Also an ex among which there are show animals. Prices easy CATALOGUE,
H. OARGILL \& BON, OARGILL, ONT.

MAPLE SHADE
SHORTHORNS
 Nine young bulls
fit for service.
Showing the fin Showing the fin
est Cruickshank est Cruic
breeding. Good Size, Quallty Inspection invited. Oatalogues on application. Oatalogues on JOHN DRYDEN \& SON, Brootilin PoO., Ont T. DOUGLAS \& SONS, SHORTHORNS and CLYDESDALES Prosent offerings: 12 young balls of No.
quality, ready for immediate service; alan Cows and heifers of all ages. Also one imp.
gtallion and two able. Visitors welcome. Farm one mile from
town. PINE GROVE STOCK FARM Breeders of choion S COTCH SHORTHORNS and SHROPSHIRES. W. C. EDWARDS \& CO., Ltd., Props. TMPE LODGE STOCK FITVIN 1854.

Right very ohoice young bulls, of the
beest breeding and from first-class mill-


## 7 Shorthorn Bulls

 Choice Scotch-bred ones, for sale abmoderate
apply to J. \& W, RUSSELL, Richmond Hill,Ont. Yonge St. trolley car from Union Station,
Toronto, passes the farm. BARREN COW CURE makesany animal under 10 years old breed, or
refund money, Given in feed twice a day.
Particulars from SHORTHORNS SHORTHORNS for Sale Momerted Cows


## BLACKLEG

"PASTEUR"


PRICES THAT BRING BUSINESS







 stitches, other makes have but 31 orwas The Veter on
beits are also considerably heavier and stronger. and




THE WINDSOR SUPPLY CO., WINDSOR, ONT.
ADVERTISE IN THE ADVOCATE

Lost, Strayed or Stolen-Cont. and light buggy and harness, animal
branded on right hip HS, monogram,
and on left hio
 ESTEVAN, Assi - Since April 1, i905,
bay mare, four years old. S. Owan
TVent Keating $(12-5-7$ w 2$)$.
HALBRITE, Assa.-Dark bay broncho Hate, brand ressembling \& on on frt shoul
der, white stripe down face. Mrs. Maria Johnson (14-6-12 w 2). MACLEOD, Alta,-Khite pony, aged,
branded 11 on right thigh, spavin on both legs. Walter Jackson GRAYTON, Assa.-Since about April
26, 1905, bay gelding, white face, richt 26, 1905, bay gelding, white race, right
hind foot white, heavy mane and fore
ind top,
hind
hinanded
flank,
ind
CB, montinct shoulder, two-yan-old filly, white flece
hind freet white, left front foot white. both animals have leather halters on.
Frank W. Fisher (N. W. $10-12-7 \mathrm{w}$ 2). MONTMATRE, Assa.-Since about April
13, 1905, sorrel old, about 1,200 pounds, nor vears
old
onand, had new halter on, had sore front left foot, hind feet white. Clemes

Sitz | Seitz |
| :---: |
| REDVERS |
| (4-13-11 |

REDVERS, Assa.- Brown pony mare,
in foal, brandedic C Son right hip in fool, branded S on right hip, small
E. on left hip, white stripe down face,
left hind toot white. R. Chambers (28) 9-31 w 1 ).
ESTEVAN, ESTEVAN, Assa.-April 1, 1905, bay stallion, about two years old, white hind
feet. S. 0 . $O$ wan Keating $\left(12-5-7\right.$ w $^{2}$ ). Since April 24, 1905, red-roan stallion,
 white face. Wm. Douglas (S. w. 12-
$37-28 \mathrm{w} 4$ ). HAZELWOoD, Assa --Since April 27 ,
 DUBUC, Assa.-Since fall of 1904, bay
stallion, two years old, white spot on
 ROMFORD, Assa, -Since April 23, 1905,
hlack stallion colt. two years old, white star on forehead, left hind foot white. R. C. Riddell $(16-3-14 \mathrm{w} 2)$.
COLERIDGE, Assa.-Dark brown stallion, white spot on forehead, about 1,100 pounds, branded reversed inverted J, J J L
on left shoulder. Daniel Newman (N. E . $22-11-5 \mathrm{w} 4)$.
CARSTAIRS, Alta-Five dollars ro-
ward.
One bay mare, branded hanging T on shoulder, weight about 800 Ibs.
Any information of the whereabouts will be paid the above reward. Benjamin Rosenberger. ESTRAX.
ELM CREEK, Man.-Sorrel filly. two
years old ; sorrel fill, one year old, with years old ; sorrel filly, one year old, with
white strip on face, dark iron-rray folly,
one year old, clipped on back. Jas. Kennedy. impounded.
WAPELLA, Assa--Bay stallion, about
hree years old. white face white
 mixed with gray. S. Shaw (S. w. 28
$14-1$ w 2 ).

A well known Judge rell down a tight
of stairs. recording his passare thy lump on every step until he reached the bottom. A servant ran to his assist
ance, and, raising him up, said $\quad$... 1 hore your Honor is not hurt?",
"No," said the Judge, sternly, .." "u

OUESTIONS AND ANSWERS Miscellaneous.

Rassing two foals.
do you consider it advisible to supply
ment the nmount of nourishment she cal
sivo them give them with a regular ration of cow'
m. H. H.
w.



## 

with milk instend of water.
kindly mention the FARMER'S AD


Spiling Grove Stock Farm SIORTHORN CITTLE \& LIICOLII SMEEP.



T. E. ROBSON, ILDERTON. ONT SHORTHORNS FOR SALE.


 Brimpton Surse firi



 Hether Lea Ajrsilires - Young gtook of olther

 $\overline{\substack{\text { Tr odllanook } \\ \text { Prizewloning }}}$ AYRSHIRES
 in Soolland head the herd of 75 head. Whn
nings for 1933 at Tor onto and Outawh. The

 and teata is our aim. Young bulls and heifera AS. BODEN, Mabagove P.

## W. W. CHAPWMNI,

Soerotary of tho Natlonal Shoop Broed-
Soertatary of tho, Font or Rommoy lambl
and lato Soorotary of the Southdown

 answord
Addross: MOWBEAT housk, noifole st, Cable LONDON, W. C., EMOLAND.

MOUNT FARM BERKSHIRES Choice-bred stock PAIRS SOWP For sid idit AKIN.

 YORKSHIRES

We are now able to ship two months old, out of im. ported and Canadian-bred
sows, at prices that should sows, at prices that should
appeal to you, if you want to get some well - bred young stuff. We can sup-
ply pairs or trios, not akin.
ply pairs or trios, not
Write us for prices.
WAL
80NB,
Advertise in the Advacate

In answering any advertiocement on this page,

## MAKE A <br>  International Sheep Dip BEST 씅 CHEAPEST CURE FOR

Mange, Scab, Bot Flies, Lice, Canker, Foot Rot, Grease, Ring Worm Ulcers, Sores, Sore Udders, Scales, Bites, Stings, Fleas, Scald Blight Maggots, etc., and prevents Hog Cholera and Contagious Abortion.

As a Sheep Owner you will be Interested in this For a number of years we have realized the immense field for a good sheep dip, and dip that would not only cure the various parasitic diseases of sheep, but in addition to this would, at the same time, at as a tonic to the skin, ttimulating the roots of the wool tq renewed activity, and thus produce a heavier growth of the fleece. We have at last succeeded beyond our expectations. Time after time just as we felt that we necessitate that laying aside of our dip and a new start was made. But we profitted
ner by our mistakes, as one must, for no man can spend three years on one line of work and not proft by his mistakes. Those same mistakes cost us money, and we conside they are worth all they cost. They taught us what not to do, and when one has
learned all the things he must not do it is a comparatively easy matter to get result Knowing "International sheop Dlp" as we do assures us that there is a We cature for it in the Dip fold.
But-"International "International Sheep Dip" is and what it will do But-"International sheep Dip" can tell its own story much more
eloquently for, after all, results speak loudest.
some reasons why it is best-
It is a 20 th contury product and we have profitted by the mistakes of othere
It gives an absolutely perfect solution with water.
It is positively non-poisonous.
It kills all extornal parasitos.
It soothes and heals the irritated and sore ekin.
fore not only gives mote or follieles of the wool, increases the yolk, and there fore not only gives a horin $\stackrel{\text { wool. }}{\text { It }}$

It is the most economical dip on the market,
Last, but not least
theot aur faith is not demonstrated. Just fill in the blank at the bottom of th flook. If it ouros the diseases and you are ontirely satisfled, pay us. If not, we don't want a cent and will oredit your account in full. We believe in the sheepman and we ofior. When you dip your sheep you expeot results, and unless you met them an $\frac{\text { should not pay for an unsatisfactory artiole. }}{\text { Suoh a proposition as ours could not be made on any but an article of undoubted }}$ Suoh a proposition as ours cound not be made on any butan article of undoubted
merit We know that International will do all we say in the majority of cases Should it fail in your hands we cheerfully cancel your account. We can do no more May we hear from you 1 We havo a paid-in capital of $\$ 2,000,000$ which should
guarantee our good faith. guarantoo our good faith.

## SPECIAL OFFER

 Fill out and Return this Blank Infernafional Stock Food Cor, Toronfo, Can. SPECIAL AGREEMENT

YOU ARE ALSO TO SHIP me Extra and free for frelght


Fill in this Stock or Land Statement or give Bank or Dealer Reference. Igive the following Stock Statembnt or Land Statement or Bank Reference or the purpose of haviug you ship mo the above good
I own .............sheEp - Catte, … ........... Horsec

D-Sign your Name on this line
P.O. Address.

Ship to $\qquad$

THIS OFFER MAY NOT APPEAR AGAIN

> DON'T DELAY--SEND TO-DAY

The farmer
mechanician, compared with his prede cessor of ten, twenty, or thirty years the mechanicai line are with gasoline engines, for such purposes as cutting wood and feed, pumping water, and the power on an up-to-date farm. In chasing farm power the best is none too
good,' and the Stickney line of goodled ay the Ontario Wind Engine and rump Co., Toronto, Ont., and Winnipeg, Man., is well worthy of more than passing inspection when a purchase is to be

McLaughlin Bros., the importers horses on a mammoth scale, write us as ollows: "Our last importation re ceived on April 4 th was one of the fimest Iot of stallions ever brought to this are, however, in receipt of a cablegram are, however, in receipt of a cablegran this day from Mr. James MeLaughina on the Minnehaha with London to-day portation this year. These horses are due to arrive in New York on Monday
the 15th. Mr. McLaughlin informs us that we will find this lot to consist of equally as fine stallions as our last. We
are finding it very hard to buy the right are finding it very hard to buy the right
kind of horses for our rapidly-increasing trade. We import nothing but the best and for this reason we are enjoying to day a trade in good stallions second $t$
none. It has always been our rule that 'the best are none too good for the en terprising farmers and breeders of Amerithat gives us the confidence the reason ers and breeders of this country to-day
an appreciation of corn.
tiful grain that grows is Indian corn. It is beautiful as the plants show in fres warm showery days of early summer corn is beautiful when the heavy growt vigor, are rustling in the breeze and the silken tassels arel bursting from the
swelling cobs which enrich the stalks and the curtious blossoms on the top are
dropping the pollen on the silk tilize the forming grain the silk to fer of all are the ripe and yellow cobs that
load the field with abundance of the bes of food in quantities four or five times
as great as any other grain will pro as great as any other grain will pro
duce. It is a mistake to think that In duce. It is a mistake to think that In
dian corn will not grow in Manitobe Corn will ripen wherever wheat will ma
ture. During the twenty five years we
have been in the country we have raised corn in small quantities nearly every
season, and never had a failure. The mouth Irdrans on the
of Bird-tail
River $\underset{\text { at the }}{\text { raise }}$ abundance of excellent corn every season,
and have the very best seed, a small yellow variety. Indian corn does not exhaust the ground, it does not encourage
a growth of weeds, very little machinery is required in the cultivation, and a harge quantity of corn is produced on a thase corn will not grow in Manitoba cause farmers would rather drive horses than handle a hoe! Corn necd not be raised for export in Manitoha, but a few
hundred bushels of the beautiful yellow

for the horses, the calves, the hens, the
turkeys and the hogs, and when a fow
> an foul of the in many Ways as hu-




## Antisontic

w" Haling,
THERE ARE SCORES OF WAYS
WHICH EVERY FAMILY FINDS USE FOR
Dr. Ohase's Ointment
Dr. Chase's Ointment is so pure and
clean, so remarkably soothing clean, so remarkably soothing and heal-
ing and leaves the skin so soft, smooth
and clear that it beromes and clear that it becomes a pleasure to Though best known because of its ex ing itching skin diseases, such as tortem salt rheum, psoriasis and tetter, it should not be forgotten that Dr. Chase cate skin, but is in reality a most deli tifier of great value.
Dr. Chase's Dr. Chase's Ointment is
splendid results as a cure for
Chiblbains and frosthites.

Chapped hands and face.
Sore and inflamed eyelids.
Poisoned skin.
Scald head and baby eczema
Sore feet and toes.
Rough, red skin.
Hives and insect bite
Barber's itch
Scalds and burns
Recring peculiar te women.
Old sores and bed sores
dren scarcely a week passes in small chilChase's Ointment would not prove useful.
By noting time to time in this paper, you will find that Dr. Chase's Ointment is ou will find greatest healing preparations known to
science. science,
proriasisently
psoriasis
failed. Sixty cents a box, at all dealers,

A well-known suburbanite who had been greatly troubled by the depredations of
a neighbor's goat was driven to desperation one day when he learned that the finimal had consumed a favorite red the goat's destruction, he employed an
unscrupulous small boy who lived in the unscrupulous small boy who lived in the
neighborhood to secure him to the railwas due. Some before the daily express inquired with interest if the goat had
been effectually disposed of. Not on your life," was the disgusted He coughed up that red golf coat of mine
and flagged the train."

## RANYY RIVER MAN

 HAD TROUBLES(till Dodd's Kidney Pills Cured His Kidneys.
Then His Rheumatism and Other Pains
耳anished One and for All-Bis Case
only orne of Many Barwick, Ont., May 29-(Special). That Dodd's Kidney Pills will cure Rheu from disordered Kidneys, is the experience of many of the setters in this Rainy
River country. The case of Willima John Dixon, of this place, is a fair sam
ple of the work the crent
 back and right hip, and I had no com-
furt in slecring. (he riphly three weeks I could not


[^0]:    

[^1]:    

[^2]:    $\qquad$
    

[^3]:    Chist be this day within and witho

[^4]:    ,

