

Vol. XXXVI. WINNIPEG.
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made as good as ever with a few bottles of Ulcerkure." "Mother's hands were bady hurned helping to pit
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worked like magic." Sold by all druggists and dealers in medieine,
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Denosits Rebeived and Interest Allowed genbral banking business
transacted. Collections carefully and promptly effected at all
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 HAting home in Winnipees. App plication from tor
His ghould be addressed to the Resident
 and for older boys, possessingexperience
work, to Manager, Dr. Barnardos Farm
turnardo, Man

DECEMBER 5, 1901.
CONTENTS OF THIS NUMBER.

notices
PUBLISHED TWICE A MONTH, AT LONDON AND WINNIPEG, CAN.

MANITOBA.
No. 539


## Empress Tea

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M, "omes from, the same garden in
uniformm good tululity we buy the
thoicest, pickin!, of the seawol nul
Emprearesmply ut a time.
Empress tea io never wold in
full w.ight wa, wacket- that keep
wed- m
In buyink Empross tea alm; ct-..
and get tle guarantee "sut iffaction
or your muney back.",
```

SMITH \& BURTON,
BRANDON, MANITOBA.

EVERY FARMER


It PaYS to ADVERTISE IN THE FARMER'S ADVOGATE.


COCK BHUTT PLOW CO. (Limited),
Know LumpJaw

 Fleming's Lump Jaw Cure.


WOODSTOCK
STEEL WINDMILLS


WOODSTOCK WIND-MOTOR CO,


## 'BLACKLEGINE"'

Pasteur Blackleg Vaccine Quite Ready for Use
This is in the form of a cord impregnated with the vaccine. Each dose s separate and applied with a special needle. The dose is hitched on to a notch in the needle and then inserted under the skin at the shoulder. The needle is provided with a detachable handle. Vaccination with "Black egine" is as rapid and easy as taking a stitch. There is no dissolving, or mixing, or filtering a powder : n

Prices: "Single Blacklegine" (for common stock): No. 1 (ten doses), $\$ 1.50$; No. 2 (twenty doses), $\$ 2.50$; No. 3 (fifty doses), $\$ 6.1 \mathrm{~m}$ Dottore Brackeg en appliel Blacklegine Outtit hande and

PASTEUR VACCINE COMPANY,
Chicago, New York, Omaha, Kansas City, Ft. Worth, San Franciseo,

## Highest Award

PAN-AMERICAN EXPOSITION.
THE U.S. CREAM SEPARATOR

GOLD MEDAL, OR THE HIGHEST AWARD
At every International Exposition at which it has been exhibited since its in
vention. (ul would be contuptitors are ad artising extensively as follows
 their triumphant this supecorch () il a peontinuation of theirir triumphant (?) record, and THAN IN WORK. Mr. Edward Van Alstsne, superintendent of the Model Dairy at the Pan-

 Mr. Yan Alstyne state in reference to the work done by the U.S. Sepal
eator in the Model Dairy at the Pan-American Exposition from September 291h o Oct ober 30th, inclusive, that in the ifty separate runs made by the separator during the-e days, with the milik of the ten different herds in the dairy test
the averake per cent. of fat left in the -kim milk was. 1138 .

Difference in favor of the United States....- . . 0034
Thi- hows that the 1 le Laval Sepharator left 25 per cent. more butter-fat in sum of money upon the dairy products of the world in ind

on the practical everyday work
the u. s. separator stands without a Peer
期
Vermont Farm Machine Co, belowsirn fuls
WIM, SCOTT, 206 Pacific Ave,, WINNIPEG, MAN AgIENT FOR MANITOIBA ANID N.-W. T'.

## Family Enittex

- Chepest, simplest, Best priee $\$ 8.00$.
no write tor circular. Dundas Knitting Machine Company, om dundas. ONTARIO

THE ONTARIO BUSINESS COLLEGE, Belleville, Ont.

ROBINSON \& JOHNSON, F.C.A


Canadian Airmotor wny.

ONT. WIND ENGINE \& PUMP CO, Lumize.



INSPECTION INVITED. ANDERSON \& THOMAS hardware merchants. 538 MAIN ST., WINNIPEG, MAN To build up the West support its institution THE MANITOBA FIRE ASSURANCE CO'Y established 1886.
Head Office: Winnipeg Full Government deposit.
ritorial Govensed by Ter. to Farmers to insure in this Compan. Reliable, energetic a,
represented districts.
hon. H. J. MACDONALD, President J. T. GORDON, ex-M. P. P., Vlce-Presiden - MK, Managing Diree ing-Director Adaress all communications to Mana
WINNIPEG, MANITOBA



Vol. XXXVI.
WINNIPEG, MANITOBA, DECEMBER 5, 1901.
The Agricultural Societies.


THE ${ }^{-1}$ ARMER'S ADVOCATE and Home Magazine.
THE LEADING AGRICULTURAL JOURNAL in MANITOBA

I herewith send you results of an experiment
in wintering strippers.
1 always have my cows calve early and run with their catres alt summer, taking the calves
in the bush dry. Last fall I wished to try if it
was worth while stabling them and giving them
"ats word for butter in the Finter. I took two
extra feed
good average cows and kept an account of the
good average cows and lept an account of the
extra cost over wintering out and what weight

weekly totals for two strippers calived april 20th


|  |
| :---: |
|  |  |

At the end of February they were putting on
flesh rapidly. but I had to let them go dry in
March, as the both calced emry in day diot Inarch, as they both calved early in May, 1901 . second and fourth rations. which, while chearen-
ing the latter, might give as good results.
 made to pay for the extra feed. Our correspond-
ent does not slate when he began to ced thesa 1 Wo cows. If it was not until December 24th.
they doubtless had by that time shrunk in flesh
and in milk flow as readily as if they were liberally fed and care-
ully housed from early fall as soon as the wastures got dry and the nights cool. Perintps Mr.
Longbottom will give us some further particulars craintmy this test, and also tell us how the grain ration was fed and what fodder was used,
as doubtless the effects of the grains fed would he modified thy the fodder ration. The bad results correspondent is making further, We hope our

## Getting People to Eat Mutton.


$\qquad$
$\qquad$

$\qquad$
$\qquad$
$\qquad$Welaine. Ramboniliet, or American Merinos, willthe distaste for muton, which now, unfortu-
Institute Meetings in Manitoba
Territorial Institute Meetings.
frimance, one of the most important fluties of
The following mectings have been aranged
Macleod, Dec. 9th. Medicine Hat, hec. 11 th
\&askatoon, Dec. 11 th: Osler, Dec. 12th, and Ros-
thern, Dec. 13th.
In referring to these meetings, the Depart-
wa . ./ The Department has a special cusect in
rw in orgaaizing the meetings in the Saskatch-
the advisability of bringing into the district a
Representations have been made to the llepart-
fomewhat along the lines of the scheme that was
Calgary and Edmonton line last long the
atca there is a scarcity of store hogs par
this vear's the screenings and inferior grains offinds year's enormous crop, If the ?epartmentfarmers for Departmental action, and that satis-dactory arrangements can be made with the trans
portation company and land corporations inlerportation company and land corporations inter-
ested, it is understood that an effort will be made
$\qquad$
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## THE FARMER'S ADVOCATE

Our Cattle Trade.
$\qquad$ sive stock-raising in the Province- of Manitob,
it may be well to review present conditions, as to decide what action should be taken b
farmers in order to start right. It is well know that an Act was passed at the last session of th Imperial Parriament co the effect that contrat beef for the army was to be the passing hom ^ct, there was a market for our rough cattl from Canada-that is, for good, straight ben cattle, but lacking in that perfect form and finish that caten the is that exporters have been compelled to discriminate between what may be called wellbred and scrub cattle. This discrimination is mot on account of their fitness for the block, for the scrub bullock may be as fat as the other, but
the flesh is not in the right places to make the the flesh is not in the right places to make the
carcass valuable from the English retailer's point of view. This question of shape, form or build has been so often described that it is hardly necessary to repeat the characteristic points in
this article. It is produced, however, only by proper breeding. A perfect Shorthorn is the typ
Our nearest approach to it is got by the use of Shorthorn bull with well-graded-up females of the
same breed, or by the use of a pure-bred Hereford same breed, or hy the use of a pure-bred Hereford
bull with high-grade Shorthorn females. The dis-

Secretary Coburm, of Kansas, on the Hog. the roving wober cagle, and would. in the minds
of many.
not

Tt has been said that in the American hog we mal. His snoul turning the soil is emblemitic the total volume of corn. It is a machine that cils it celf; it reduces the volume of corn ten-
folld and quadruples the value thereof. A brood sow is the incarnation of a safe investment, a bucolic bond whose coupons are frequent and
large litters of pigs. The hog is a harvecter 1arge litters of pigs. The hog is a harvester,
condenser and manufacturer of nams, lard, il luminating, oils, brushes, glue, buttons, bacon, whistles, soaps, souse, sausage, and satisfaction, The well-bred American hog is a mint, and the coms. He has become a thing of beauty and ioy forever as long as a mortgage is to be lifted, a being to be built or piano bought. Instead of in wagons and rough muddy lanes, he now rides a tour of the world. In all civilized lands he is at home. He camps with the soldiers under every At and sails with the sailors before every mast. fellow of debased morals and unclean habits Rut at $\$ 7.25$ all this is reversed. He becomes an to the deference we show to a distinguished and
to wealthy relative. He is given the right of way and possesses the fat of the land. He soon
ceases to associate with rural porkerc.
eagle speak of cruelty and piracy. The pig is
thrifty and industrious: the eagle accumulatus thrifty and industrious: the eagle accumulates
neither flesh nor feathers. The pig is amenable to civilizing influences: the eagle is wild and antamable. The pig is agricultural: the efigle symbolizes nothing. The pig eats just what is
set before him and never cumplains. He rever uses tobarco, and unlike men. he behaves best when he is well corned. Though he knows nothing of mathematics. he is great on spluare root, knight of the pen. Worms are the hog's bitters. and bugs and beetles his quinine. But of all the luxuries he pound-dishwater-composed of eversthing inden the kitchen roof. it is all rot to talk about the hog being naturally cleanly. He is a scavenger to the babbling brook, but will desert it every time for a mud wallow. The hog is howeven more cleanly than most dogs which
pets by so many men and women.
No one ever saw a hor so indifferentest in common proprieties as to smoke cigarettes in the common proprieties as to smoke charew tobacco or
presence of human beings or chew
drink. No lady pig ever lavished her affections 1c. to 1 c. . per pound, live weight
In other words, the selected ranch cattle for the English market are
worth at point of shipment, Winniworth at point of shipment, Winni-
peg weights, $\$ 3.75$ per cwt, while peg weights, $\$ 3.75$ per cwt, while
the others, so-called scrubs, are only worth $\$ 2.50$ per cwt. This difference has alarmed stockmen on the ranches, hence their strong protest
against the British Act re Army against the obract beef. It seems strange that with all we know and have heard about English tastes, and the willingness of the English
to pay the highest price for what suits them, we should go on raising and supplying what suits our fancy and then try to educate the appetice of the consumers. The Americans tried to educate the
English to eat filled cheese ; the Canadians improved the quality their cheese as much as possible to
satisfy the taste of the English consumer and virtually captured the market from the Americans.
It is simply absurd to talk about educating an Englishman as to what "roast beef" is or should be. Those England ", that any kind of beef tvill do for her soldiers in order to prop up their own industries are
commencing at the $\begin{aligned} & \text { wrong end }\end{aligned}$ Better commence at the other end.
Breed right and feed right. merit will command the price. There has been too much indiscriminate purchasing of stocker vearlings in Manitoba during the
past few years for the ranches, as past few years for the ranches, as
well as in those brought from On Changed on the ranchese cannot be


When buyers of stockers cull ou culling out, and pay for merit ac will be in a much healthier condition, and the greatest possible impetus will be given to the breeding of cut-throat packers, who eventually bleed him to on pugs or hapdogs she may mot be all she hook of beef-breeding types in Manitoba and the Isn't it fumy that a man toils year after might he: but none of its incompleteness comes Territories was never brighter than at the iresent time. Circumstances are impelling stockmen yang lines that make for their greatest success. furl continue doing so as a part of their regular firming operations, must have more stable ac-- but not more so than in its literature. It is th modation. This is a somewhat expensive out- fashion to ridicule the hog, to insist that he it
 fomld, however, be made, and planned still he as dice and still is the rural ceiling festooned with the flopartment, called at this office perently of whole, a convenient arrangement. Then atten- sausages and smokehouses fragrant with ham and their way east, Mr. Stwart informed us that fon must be given to the selection of stock: a bacon. The hog has been under the ban of many shatce back to what has already been said on the thect of breeding and you have the principal preier the martyr's stake to the pork steak. He c has been presented time and again by the poor man's hest iriend. What is more unctious e has been presented time and agam Ivocate." I shall not. therefore touch much than his grunt of satisfaction or more penefraIt, except to say that all rules and specified for feeding may fail in giving best resulta
there is a close study of cact individual from day to day and to keep them in a healthy con in food to keep
The aim should be
and 1 wo years old.
 he time the calf is dropped until it home



Economic Records of Holstein-Friesian Cows.
ROM JULY 6 नO NOVEMBER 1, 190 with official testing by experiment's stations. Reports are made of four weeks' feeding, but to economize space we give only that of last weekcow is fed not less than during the previous week and for the last two days not less per day than during the earlier days of the week.
mount the following list the kinds and total secutive days' work of a ferw of the highest proTopsy Barber 46955, age 3 years 7 months 8
Top the different ages:
 ture ( 3 parts gluten meal, 2 parts bran, 1 part Milk, 130 lbs ., containing 16.858 lbs . fat
Clothilde Lunde Artis 39867, age 6 years months 5 days: Food consumed- 40 lbs. soilage oats and peas), 46 lbs . soilage (oats and clover) 43.82 lbs bran, 43.82 lbs . pea meal, 11.97 lbs meal, 40.32 lbs . oatmeal, and pasturage Lady Longfield 3rd 39945, age month 24 days: Food consumed- $\mathbf{1 8 6 . 9}$ lbs ensilage, 391.3 lbs. soilage, 56 lbs. bran, 49 lbs corn meal, 28 lbs. gluten meal, 10.5 lbs. oil meal lbs., containing 15.517 lbs . fat. 26 days : Food consumed- 61.75 lbs . grain mix ture ( 3 parts gluten meal, 2 parts bran, 1 part ootton-seed meal), 20 lbs . soilage, and pasturage Hengerveld DeKol Maid 50827, age 2 years 1 month 17 days: Food consumed-3 lbs. grain mixture ( 3 parts gluten meal, 2 parts bran, 1 part cotton-seed meal), 24.5 lbs. grain mixture
$(56$ parts corn meal, 62 parts oatmeal), and pasturage. Products-Milk, 287.9 lbs ., containing
11.616 lbs. fat. ${ }^{\text {Paula Jewel }}$ 3rd 49162, age 2 years 8 months Paula Jewel 3rd 49162, age 2 years 8 month
days: Food consumed- 321.5 lbs. soilage, 76.5 bs. bran, 10.5 lbs. oil meal, and 4 lbs. Ground
ats. Products-Milk, 257.5 lbs., containing
 wheat bran, 35.25 lbs . gluten feed, 11.76 lbs , cot or-sced meal, 60 lbs. potatocs, and pasturage Products-Milk, 307.4 lbs., containing 9.065 lbs . Maggie Beets Lady DeKol 52500, age 1 year wheat bran, 35.25 lbs. gluten feed, 11.76 lbs cotton-seed meal, 60 lbs. potatoes, and pastur-
age. Products-Milk, 278.3 lbs., containing 8.943

## Brandon Experimental Farm Test.

 - = = = In 1-20 acrel plots. all sown the same date and he. The yields are on the whole most satisfac-tory. Rust seems to have beent the one cause of
himry reported. and, as Superintendent fedford
 The sield of wheat has been slightly athove the verue. Thu proes ine of rust has, however, re-



| Name:o varietr. | No. of <br> days <br> maturing. | Yield <br> per <br> Bus. acre. <br> Lus. |
| :---: | :---: | :---: |
| Lbs. |  |  |

As usual, the crop of peas was a prolific one,
and the sample is unusually perfect in shape and bright in color.
Fifty-seven varieties so


Lowest yield-Eld
BARLEY.
Owing to the prevalence of rust, the yield of


Lowest yield-Hulless White; mature

| Name of variety. | $\begin{aligned} & \text { No. of } \\ & \text { dag8 } \end{aligned}$ |  | Yield er zer |
| :---: | :---: | :---: | :---: |
| Jarvis | ${ }_{\text {maturing. }}^{91}$. | Bush. |  |
| Gordon. | 95 | 43 | 36 |
| Haryey. | ${ }_{91}^{94}$ | ${ }_{41}^{42}$ | 32 |
| Clifford | 91 | 39 | 8 |
| alton | ${ }_{96}^{94}$ | 36 35 | ${ }_{20}^{12}$ |
| slie. | ${ }_{93}$ | 35 | ${ }_{20}$ |

7 bush. 24 libs. FIELD ROOTS.
With the exception of carrots, all kinds leld roots have given good returns. It is in leresting to note the very much larger yields of with later seeding. The potato crop is by far the best for a fium-
All the field roots were grown on rich sandy


$\underset{\substack{\text { Soo } \\ \text { lie }}}{ }$





fian whit Yoger
latithonz whitge




aed ap Syan
hilumertivinurov

## Feeding and Watering Horses <br> Wrering Horses

 the horse are caused by errors in feeding. paratively speaking, the horse's stomach issmall organ, having an average capacity from three to three and a half gallons, and very important part of the process of digestio ion of the food into chyme-takes place he is necessary that intelligence be exercised in ireding, in order to preserve health and comfort. gastric juice (a secretion of glands in the lining membrane) on the contents of the organ. This juice is slightly acid, and during digestion is secreted in large quantities. It acts upon the nitrogenous and saccharine portions of the food, rendering them fit for absorption, while the starchy matter and fat pass unchanged into the secretions of the liver and pancreas. In order that the food may be acted upon in a normal
manner by these juices, it requires to remain in manner by these juices, it requires to remain in
the stomach for considerable time, and if anything interferes with digestion either in the stomach or intestines, such as undue excitement, vioTent exercise soon after a meal, an over-distention of the walls of the organ by an overfeed, the
forcing of the undigested material out of the stomach by a large quantity of water being introduced therein, etc., etc., the comfort and health of the animal must suffer.
Horses should be fed at regular hours. Regu-
larity in feeding is more important than is gene larity in feeding is more important than is gener-
ally thought. All food given should be of good quality. For horses not doing much work, the food need not be of an expensive sort; rough or coarse food answers very well in such cases, but
the quality should be good : dusty or musty food of any sort should not be given. The quantity of grain given should in all cases be in proportion to the amount of labor the animal is required to perform. 'The somewhat popular opin-
ion that a horse should be fed a given ration grain, and that the same whether working of idle, is entirely wrong. The function of food is to supply nourishment to the tissues, and the amount of nourishment depends upon the waste
taking place, and it goes without saying that the taking place, and it goes without saying that the
waste or consumption is less in an idle horse than in one that is working; hence the amount of food, especially grain, should be correspondingly less. Even to idle horses a sufficient quan should be given to prevent hunger. The quantity of hay required in 24 hours is said to be one pound for every hundred pounds of the animal's weight, but experience tells us that we cannot Tay down any fixed rule in this matter, but each ties. As a rule a horse will take rather more than this with safety. The appetite as well as the digestive powers of horses differ materially, especially in regard to coarse food. The common practice of keepars a horse all the time cannot be too highly condemned. An animal shoưd not have placed before him at once more food of any kind than he will eat with a relish, say in an hour or a
most an hour and a half. After the lapse of this time, unless the horse be taken out, any food rean appetite for his next meal ; while if he be left standing with the hay before him, he will keep nibbling at it, tossing it out of the manger dering it foul and unfit for himself or any other animal, and he will not have the necessary appe tite for his next meal that is essential not only
for enjoyment, but in order that he may receive the full benefit of the meal. The stomach requires constant eating takes place, the organ is kept in a correspondingly active state, and hence will no Net only is it bettor for the animalory manner limited cupply but there is much less waste. find that horses that are used for driving or riding purposes do better when fed hay only twicc daily, receiving nothing but, a grain ration a ably wise to feed hay three times daily. The guantity of puatn be given depends asor stated, upon the amount of work performed. For a horse of $1,200 \mathrm{lbs}$. or thereabouts, doing ordi gallon of oats at a feed is considered about right for smaller or larger animals the quantity should be less or more, according to size. I think it results than other grains. When expedient. crushed or chopped oats than from whole. Still other grain, as barley, rye, corn, or even wheat
ground and mixed with the oats in fair propory Yons tive good resultss. but, onts, where of

Lumall quantity of brat regulatly mixed with adly good practice, but I prefer giving the bral
ay itself. It makes a variety, and the hors relishes it, for he likes a change of food occasiontally as wenl a little grass or other green food can not be obtained, it is good practice to feed a few roots, as a small turrip or a carrot or two every day. In changing the food, as from hay t straw or another, or in commencing to feed srain to a horse not accustomed to it-in fact, any change should be made gradually. Sudden or violent changes are very productive of digestive
derangements. Many serious, and often fatal derangements. Many serious, and often atat indigestion are caused by what may be called mistaken kindness on the part of an owner, who contemplates making a long !our ney with a horse unaccustomed to driving, to on the journey. The extra quantity of grain in the stomach, combined with the extra exertion, causes an attack of acute indigestion, which, unless promptly and energetically treated, will
probably prove fatal. In such cases it is better to feed the animal rather less grain than usual and then, in order to compensate him for the ex-
tra tax upon the system, feed more liberally for a few days after the journey. It is dangerous to subject a horse to hard or fast work immediately few minutes, say half an hour, should be allowed for digestion. Neither is it good practice vo give a horse a full ration of grain immediately after being subjected to severe exercise. Some horses
will stand it all right, while others will not. The digestive powers of horses vary greatly, and unless a person knows his horse very well he should be very careful on these points, and even though we know our horse, as to render him at certain times more liable to digestuve derangement than at others, and we are As to watering horses, my opinion is that With few exceptions, when a horse is thill drink the principal exception being immediately after he has been subjected to excessive or severe exercise and is very warm and thirsty. In such cases only, and after he has cooled off be allowed to quench his thirst. However, it is very seldon that a horse at ordinary work, either on the farm vater Th roads, is tor course he will persnire ireely, and I have often known horses to he brought in from the field in this state, and the driver, thinking him too warm to water, tak him to the stall and fecd him, and not give any after noon. This I consider is cruelty. The roo horse certainly cannot enjoy his meal while ne is
thirsty, and will not eat heartily ; then he will probably drink large quantities after the meal the intestine before it has been properly acte upon in the stomach. Horses should have al they want to drink before meals, and again after In such cases they do not drink much afte digestion if allowed water after meals, and certainly is good practice, where practicable, to allow water between meals, especially in ho weather. In regard to watering horses, if the
driver considers what he likes himself, and treat his horse as he does himself, he will not go far wrong. Whenever he feels thirsty he wants a
drink. and he is safe in assuming that the same principles apply to his horse, and, as tefore not be safe to allow his horse to gratify his

The King's Race Horses

## Cumonond Jubilee, the four-year-old the colors Royal owner to the front in the Two Thou taken out of traing and his tacing earee not been what one might have wished, for, isferred to the Duke of Devonsirre. the death of of the King's racehorses at then n Victoria, he ran for the three £ 10,000 s this season, but could not do better than the course of the three years that he was in ang he won five races he received for running d. The King is now in the unique position , whose first lot of three-year-olds has of rare and singular merit: Fersimmon. ostock have not made so good a hegimint , iamond Jubilce himself. Nor must it be iamond Jubilee himself. Nor must it be ten that another brother, Sandrinulam, an that another brother, but coulid not

THE F゙ARMER'S ADVOCATE
Horse Training and Education.

As mentioned in a previous article, "' When
position a coll do not forget to study his dis-
For instance, if he is ard quarreling with him.
bot ho ho horts
ther gait will suit him. So many men try to
Chis is one of the things that is so hard te com.
pel a colt to in harness Now er tom to force him to go steady, and see him balk and lounder and show all kinds of ugliness He has lounder and show all kinds of ugliness. He has
about that. To'start a colt in harness is a very mportant event in his life. Then we must nuake good preparation of harness and a strong tirowheeled rig; one that will not be easily upset. ny man that is able to do any kind of tinkering can get an axie and a pair of strong wheels rut upon them a pair of poles 10 ft . 6 ins. long. set them wide apart on the axle, and place a trong crossbar back far enough so that an ordinary tug will reach it at full length; place whiffletree, upon this bar; now fasten a seat as low down as possible. What I want is to give an idea of measurements, etc., and leave the the the wildest hore in and paratively safe This smene the and mh training-fix your spings in such secrets hat you feel safe, and then, and not until then. are we ready for any green colt. I nearly always use the cart
saddle trond many who

trio of farm mares, aged 28, 29 And 30 years.
vould say be cautious. Work around him for a agaif. The oldest one is shod all around while before you attempt to ride him. Substi- her to drive to the post office, four miles from make one It is made like one end of a saw- for twenty-four years of late yeare she hand be horse-stmply two sticks crossed and fastened to- come less furious, and we let her out, to pasture gether. Just make one, set it upon the colt as a She is still the "boss" horse, and nothing deman would sit; fasten a strap or rope to the lights her more than to get at the watering-
fect as a belly band; use a crupper, running trough and keep the other horses away. The straps from the latter to the top of each stick or arm ; then put on the reins and fasten to the bridle-bit and let him go in a training yard or
shed. When he has been harnessed in this manner while you may attach a long line and guide him for short spells, giving rest between. This exercises, after which he may be ridden by any ordinary horseman. Now all this schooling may not make him a first-class saddle horse. Saddle gether and tastes differ somewhat One man likes a pacer, and another does not, and so on.
Some people would not ride on a saddle, and would prefer walking. Generally speaking, the horse when he sees one. A genuinely good saddle horse is a luxury. Green colts that would make good saddlers are not too plentiful in this coun takes lots of patience and skill to make him there you may expect a good lons price for him if you choose to part with him. He may be ing his shoulder continually with the riding the ground across the roadway. and ride him and practice the horse to take a good hurdle
at there is not ore chasshes and then loo ; chase chase a steam engine for a change, and he will soon
the watr, You may recommend him a

Kindly formard your reneaid subscription to-day or the best and most attractize arricultural pape Three Old Horses

## Referring to the old English horse portraye

 of Waterloo County Onte sends nsen retogram three old white horses his pesessiontap as followsThese three horses are still alive and in bet ir shape now than they have been for years ey are white: when they were young they wer wenty-eipht, twenty nine and thirty yeure The e the offspring of one mare the two oldest aic Argentiles," a Lower Canadian horse o descend nt of "St. Lawrence." The youngest one is Clydesdale Jock." The oldest one, "Polly, my father and mother from their wedding, oungest one to a place thirteen miles from here and came back the same afternoon. She did not have been working constantly doing the work and ons las lan fors decided to let the oldest pair ease off. We had team of horses, each seven years old, that never Worked until the previous year. We expected the worked them they would work, but if they were other horses are all afraid of her. The oldest ones were always driven together. They were a great team. My uncle, Mr. J. Cook, now gover vear 1883 he drove a man from Hamburg to our hundred and fifty dollars he offered father four vouldn't sell them. Mr. Ferguson, the undertaker of London, Ontario, wanted to buy them, but as father positively refused to sell them, he made mo ave been in our possession since-They wer the youngest one had four colts. one of which w hive dollars. To give you an example of what they still do, I may say that I was drawing cord
wood to-day with the team of which the young est horse is one. Her mate is her own daughter
which is in its twantieth yean Amongst other good things in the address of ing of the Illinois State Swine Breeders' Asso points you can, but do not sacrifice size and
quatity to them. A strong back and loin, larg $-2-\cot$

## THE FARMER'S ADVOCATE

Great Interest Taken' in an Agricultural 'The Northwest (Canada) Entomological mintue boys' eycs and ears; and we how

College
the subject of an Agricultural College for the
Province, and it is to be desired that no mistake
will be made in the organization of, such an in- stitution. A commission to thoroughly investiconomical, and the report when given will ne doubt receive the attention it will deserve. culture as a calling, and help to make it more profitable, is of the greatest importance. A statemimister that the boys from the east came West to fill positions in the towns." It is to b
hoped that this is only partly true, and tha surely must not be in ierred that the rural population is to be recruited
only from foreign immigration. There alvays will be some and it is well that it is so-who living, or perhaps seek to gratify some honorabl
ambition in some calling more to their taste and or which they are better fitted than agriculture Manitobu the mine, but to the field must we look for wealth, and upon the product of the farm th whole structure of our material well-being rests, right day A generation who have not enjoyed some of are anxious to see those who are coming upon the stage educated, well trained and intelligent will avail unless the spirit is found among the lieve such a spirit exists in many a bright young hat on the farm. Lord Roseberry lately said hat the nation that is satisfied is lost. Res what is essentially important to agriculturists would be in the interest of the whole Province and such a college should be able to give a deproud of as a B. A. The college to fulfill the in its character, with a staff especially fitted for their work. The initial expense will be rather difficulty as far as the Government is concerned With a growing expenditure and a revenue not very elastic, economy is a necessity. But where
tie way is made so easy for those looking to the way is made so easy for those looking to-
ward what is known as the "professions," something might be done to make agriculture more o An article appearing in the "Advocate" of
october 21st seems to be eminently practicable and worthy of the greatest consideration. We forward hopefully, believing in our country and (s people, and express a wish, in the words of an English statesman, that our Province will have people strenuous, educated, law-abiding, God Muntipality of pipestone. ROBERT FORKE.
oundation for a people, the real and truest
Mut

The Moosomin District
 Inud, is iust starting in to ineed Shortiorns, ant mimodate the horned stock. Neierthurink hinh and whow Crisp, whose warpus wore willed with has

Entomological Society was held at Lacombe Alberta, on November by 1901. The chair wa iaken by the Vice-President, the Rev. M. White meeting.
the president's address, Mr. Howson P. Foulger of Urquhart, near Lacombe, and Dr. A. E. JamieSociety, and the officers of the Society for 190 were elected. The officers for 1901 were re cone of with the exception of Mr. W. Wenman Mr. Foulger accepting office in his place. The chairman then called upon the president which we give, as follows:
We have now completed the third year of cum existence as a Society, and it has become the custom to review the progress we have made dur-
ing the preceding year, and to consider what good w. he preceding year, and to consider what good
whave done. By thus taking stock, as it were of our conduct we gain some light on the course
we should pursue in the forthcoming year. In this vast new country, a Society like ours to be come popular has to enlist the sympathy and ina reason for its existence and must show that it labors are identical with the farmer's welfare.
When this is clearly understood the Society beWhen this is clearly understood the Society be the reasons why we have our annual meetings. The, chief work of the Society is to study and to
help the farmers themselves to study the life habits of the insects of this country. The time as an evidence of lunacy and I believe we shall con within the next few years the introduction into every school in the country of a system of nature take an active interest in the be encouraged to of insects as weeds), is emphatically one which develops the powers of observation and tends to make us all brighter men and women.
Some idea of the practical value of this sublect to the farmer may be formed from the fact farming and gardening industries in North Amer ca amounted to many millions of dollars, and a Elance presently at the list of injurious insects
for 1901 will show that the Territories are Sharers in this great loss. Farmers, as a rule ens their pocket, though it is strange how indif Serent many of them seem when their crops ar threatened by insects or weeds. I have in mind
several cases which have occurred this year of the wholesale destruction of turnips and cabbages by insects when a few cents' worth of hellebore ( $1 \frac{1}{2}$ oz. to a pailful of water) or of Paris green would have saved the crop, and fapmers are just as entleman who was of weens. I met with on garden as a choice flower.
The question, therefore. now arises. "How and in answering this let us first see what wh have arready done. In the Society there are two branches of study-entomology and botany.
Under entomology is included insects (noxious. beneficial, harmless, etc.), and under botany is
included the study of the food plants of different
insects insects, and also the study of weeds and otiner
wild plants. What, therefore, we have done has heen to attend farmers" meetings when requested about seven of these iddresses, besides som
written addresses, given this year at different Waces. Secondly, we have distributed to every
alliliated agricultural socioty (except, of course to those duite recently a titilated with us) a col-
lection of ripe seds in litle lathedled hottles) of
nearly every species of noxious weed within the Territoriers. This shomblat provent any one from prowing them as ornaments. and will enable any
farmer, by apply ing to the secretary of his agri-
cultural sociens. io soe what sont of weads ho has
 Then in the weve Fnthy
breed-type, and were models of dairy cows. T
phenonienal work of that wonderfil cow Marshall, easily won the day for her breel But when one considers profit, there is a Jersey, worthy of special mention. This cow was served before she entered the test and is now nearly and stands seventh in the list. The profit of the cow, Mary Marshall, is $\$ 59.41$, which gives her a margin of $\$ 11.95$ over May Qucen of Greenwood.
If one stops to consider the actual return of these two cows, he will be impressed with the meagerprogeny.
1 have no desire to have the interence drav


Clydesdale stallions at brandon.
Broperty of Billy Smith exercising them.
from the foregoing remarks that Guernsey cows trary, I will say that although we have but eight Guernseys in milk, in our herd of 40 milking Jerseys or in our herd of 20 milking Ayr-
shires it would be difficult to pick eight better dairy cows. One of our Guernseys had only been home from quarantine three weeks when she gave
49 lbs of milk per day, testing 4.7 per cent. 49 lbs. of milk per day, testing 4.7 per cent.

This issue of the "Farmer's Advocate" is a fair sample of the rich stores in reserve for subscribers

The Contest of the Cows. pan-m result of the six-months dairy test at the without proper consideration of the circum stances, seem to many disappointing. Compare with many of the records that have been pub lished of the tests of individual cows, they may appear unsatisfactory, since we have a 000 lbs fecords of simg thers producing over 1000 the of milk and of others producing over 1,50 record of butter within a year, while the highest record $8,140 \mathrm{lbs}$. and the highest product of estimated 8,140 los. and the six months of lactation. The impression will doubtless prevail with many that the best corws that could be found were selected and included in the PanAmerican test, and that the result is a fai measure of the capabilities of the best cows
the breeds participating in the contest. A fa consideration of the circumstances will show that such is not a reasonable conclusion. It is well known that a large majority of the best cows in in the autumn, for the reasons that, if required for show purposes at the fairs, being fresh, they will be in the best condition for that purpose
that their calves will be well forward to show as wher a year at the following years show, the shows of succeeding years, and the bull calves
the best age for selling and for service at the of the year. This fact, it will be admitted, and the selection was necessarily made from is were available that had calved in the as were available that had callen about the time of mmencement of the trial. Then there are the mal facts that American cows of two of the ipal dairy breeds were not represented, last
dian cows were hurriedly sclected in the lat celts beiore the opening of the show and few of them had even been tent his capabilities. Sarlvantages the cows labored untor bo feeding and surroundings must ate.
consideration They wer
talles with by new feeders, kept all summer in invitation and excitement incident to the passing of myriad flies in a temperature which at times ran up to over 100 degrees, causing positive suffering and a distinct shrinkage in milk secretion. was mot conducted with the object the feeding the largest possible quantity of milk or butter but the greatest profit on the food consumed, and for this reason cheaper foods were used than would have been had the object been the greatest
quantity, and doubtless time was lost in the effort to adapt the feed to the cows and the cows to the conditions to obtain the desired end. With Wust these disadvantages to contend against, it must be conceded that the cows did good work
and demonstrated that milking cows can be fed and demonstrated that milking cows can be fed
at a profit even under adverse conditions, for
while the price allowed for butter-25 cents fer pound-was high, the price charged for feed was also higher than that of the average of vears on
the farm. In estimating the profits in the test, the farm. In estimating the profits in the test,
no account was taken of the skim1 milk. the
boytermilk, or the manure, these being allowed to offset the cost of labor.
Tahing the record of the herd standing ihird on the list for profit in batter-fat as an average
of the best of the herds, we find that the five cows gave an average profit on the six months'
feeding of $\$ 44$ each in round numbers. Granting that cows will milk ten months in the yean, and cited for the remaining four months would be
$\$ 25$, we may figure an average profit for such cows of $\$ 69$ for ten months' work. While there
is nothing in this showing that may not be is nothing in this showing that may not be
equalled by good management by any intelligent equalled by good management by any intelligent
and careful dairy farmer, it will bear ciisand carefinting considerably and yet demonstrate that dairying is one of the most profitable branches of farming, if not decidedly the most profitable, that the average farmer can engage in.
The "Model Dairy " has served to teach some important lessons, among which is that for profit there is more in the individual cow than in the breed, that there are grand good cows in most if dairy or dual purpose, that milk and butter can be produced at a good profit, and that it is unsafe to judge of a corv's capability for profitable work by any less reliable method than the use of the scales and the butter-fat test. Lessons may
also be learned from a study of the feeding of the cows, which is another story and will bear discussion, but probably the most outstanding is that of the great varue of corn ensilage as a cheap, palatable and, profitable food for cows,
not only for winter feeding, but for summer use

Shorthorms in the Model Dairy Test. From the result of the very extensive test
made in the Model Dairy at the Pan-American Exhibition. considerable satisfaction may be aim it is to produce that which is in so very great demand amonest those engaged in general
farming and dairsing-a cow that will produce stock of first-class quality for the export beef trade, and while in milk be very profitable as a

There is verv great encouragement. also, to are striving by the use of Shorthorn bulls from the best duiny strainc arailable to retain the milking qualitios of their herds while very largely increasing the value for heef of the stock they and more apparent as the already large demand been found that the increase in value of the young cattie sired by a shorthorn bull, when farm. becausin cuses of room on the farm. at about one year old, makes a handsome profit in think they are on the right lines when the sider the showing the shorthorn cows have made in the most extensive test made in America. cows for which-in C'amada-is made the claim of the four dairy breeds we have largely in ase in
our country, we tind tho averagi" per cow in the production of total solids, which we presume is most desirable in our great cheese industry, the months, which if the gain in live weight, at three cents per pound, be added to cach, then the the cost of food be reckoned, the profit would be for the same period.
If a difference of one hali cent per pound for hore for superio suality of beef, which is reasonable, the result would again be in favor of the Shorthorns by Without doubt, in America, for the production dividual records, in excess of those made by the dividual records, in excess of those made by the dairyman has to deal, and it is encouraging that the Shorthorn has made so good a showing. shape for roing into a toct could be picked un shape for gomg into a tust coun be picken ap
iust at the last moment. Iut, to be sure, all the
i,reeds would have this to contend with, less or
$\qquad$

yearling shorthorn heifer, diamond gueet

Essentials to Success in Buttermaking.
$\qquad$
$\qquad$
$\qquad$ cows at pospay in a falling temperature, and experi-
and ina

Superintendent Clemons on the Model Dairy Test.
opinion, there are time Model farcibly impressed on the student of the roduced at a good profit under adverse circumstances when good judgment is used ; and " that individual excellence counts for more than breed in cheap production.
1 wish it to be remembered from the first, that the Guernseys were, I believe, fitted for eighteen months for this test, while the Canadian herds were selected the last three weeks, before the test them. Taking the Canadian herds individually, the Jerseys were handicapped at starting, in that Rexina of Maple Grove did not calve until May was charged against her for this period her Primrose Park's Prudo the pertiod
rrimrose Parks Prude, the best cow in the and seemed to be homesick. I think she had been used to a deal of "fussing and petting " when a family cow. The Abrshires were a very even and Kypical herd, the best in the barn in this respect. Kirst part of the test to be lacking in vigor due I think, to excessive forcing. I think, to excessive forcing.
The Shorthorns were a fairly good lot. Miss Molly, the best one of the herd, was very thin in flesh, and lost considerably in production on that account

The French-Canadians, who twere it surprise party, suffered somewhat from the presence of the miniature cow, La Bouchette, who, thou

Meg, of the Holstein herd, lost through sickness early in the test, and never regained this loss. Inka Mercedes De Kol, who was not four March, and just finished an official test of 14.06965 lbs . of butter-fat in a week, which was certainly a great strain on a cow before entering a food test. Prof. Rovertson picked her as the best cow in the herd.
Hulda Wayne was only four years old on Aug after she calved, and yet stood second in the herd and thirteenth in the grand total. I think this stamps her as a rare good three-year-old. Beauty Primrose," very erratic at the beginning, refusong to eat ensilage at all. Yet she proved her worth by standing second in total production, and her staying qualities by leading the barn the last month of the test. The Holsteins and Jerseys were showing the nine months, would have overhauled the GuernSeys. The Holsteins and Ayrshires plainly demonthe milkman, and had skim milk been taken into consideration in connection with the production of butter, as it certainly should, they would prove themselves equally as serviceable as the Channel Istanders in the production of butter. the four leading dairy breeds in the production of butter, taking the profit on butter-fat produced, and profit on skimmilk at 15 c . and 20 c . per hundred. It certainly is worth 15 c ., and
many claim the latter figure is more nearly cormany clam I allow the manure and buttermilk for the rect. I allow the manure and buttermik for the
labor. In compiling these tables I considered the IIolstein and Ayrshire milk as showing 18 per cent. cream, and the Guernsey and sersey as cow with all she produces, leaving no losses to cow with charning, accidents, etc. The churning at the dairy was largely experimental, sometimes
almost farcical. It was shown that the cream from different breeds required very different treat--

 Cumen mion 200 -

The Farmer's Pocketknife. The suggestion has been frequently made that
should offer a superior pocketknife, suitable for Te should offer a superior pócketknife, suitable for farmers and farmers' boys, as a premium for ob-
taining new subscribers to the '" Farmer's Advocate." Everybody on the farm wants a good strong knife every day of the week, but for a long time our difficulty has been to find just what suited us in size, quality and appearance, as well England during the past summer the Manarer the "Farmer's Advocate" visited several of the leading cutlery manufacturers of Sheffield, and finally made an arrangement with Messrs. J. Beal $\&$ Sons to submit several samples, and out of
these one was finally selected, an engraving of these one was finally selected, an of the knife) appears on another page of this issue. A special order was given for their manufacture, and we are now in a position to offer the premium for which
we look for sharp competition among our readers we look for sharp competition among our readers popular metal, nickel, highly polished and strongly riveted, and the blades are of the finest steel, every knife being fully warranted. A duplicate of this knife cannot be obtained in Canada or the
U. S., and being nickel-plated, and the name "Farmer's Advocate" ". being stamped on the side of the handle, makes it conspicuous and easily identified. It is by all odds the handsomest and most valuable pocketknife ever offered in this way, and one may be secured by sending us the names cate," accompanied by $\$ 2$. Send in the names and the cash at once, and the knife will be mailed you, securely boxed and postpaid.

Large Farms and their Management.
Big yields of grain are the distinguishing farmses of the wheat farms of the Territories,

1,000 bushels of potatoes were harvested potato cultivation, up-to-date impleme
used. Mlanters, cultivators and diggers. bluff. in which are sloughs, give variety farm landscape, and in order to preserve grass being sown around the the insict grass being sown Bronswicker, and started lifie the prairic at an age when some men are supposed drom active duties. Speaking of the Mr . Perley states that a yield of 10 bushol. wheat to the acre at 50 cents per bushel pray the cost of growing. On the Perley farm wheat
averaged slightly over 38 bushels to the acren

With your renewal send one or two new subscribers to the "Farmer's Advocate," and earn a valu

## A Notable Milking Record.

There are few finer herds of dairy cattle in England than that kept at Tring Park, where specialty is made of developing the milking prop erties of the stock and where careful records are kept from day to day of the performances of the memals comprised in the herd. The breeds kept and during the in September the herd contained 43 Red week 36 Shorthorns and 31 Corsevs, 43 Red Folls been in the herd for the whes, year. In addition to these a number of cows end heifers were a purchased during the season: for the latter cept rate returns had been kept. The milk record the herd for the past year has just heen issued an it shows that 13 Redh holls issued duced an average of 680 gallons of milk the 36 duced an average of 680 gallons of milk, the 36

thireshing outfit on farm of senator perley, wolseley, assiniboia. spouting the grain direct into portable granary.
age than those in Manitoba. A few miles, north. Jerseys an average of 630 gallons during the D. Perley if Sons, comprising 4,320 acres, the twelve months. The crop this year yielded remams unbroken. wheat and 6.000 of oats. all of which is to in portable granaries, into which the grain is spouted right from the machine. There are 15 of the plate. Two of the foists are longer feet to buidding and serve to attach a pairger wheels at one end and a large roller to the other, by meane of which. when emptied, they are drawn off the fit a 32 -inch Corley has his own threshing outcutter, and high hagger. which is run by a smatlsized traction encine In the spring the stubble harrosed, and again harrowed after the grain is "1p. The rotation adopted is to break and take down to-grass with the last graincop. Frourwork done calling for the employment of about forty horses. As the farm concists of prairie and
rolling land, hooken occasionally tiy ravines. some of which are dammed for the water supply, it is
suitabie for stock-raising purpores. (One hunded heat of catthe are kept of which forts cows are mitked their product being worked up into a

 large hors were in time of one visit tanc for



The best average yield in the case of the Red Pons credit of an eleven-year-old ing the 306 das on her eighth calf and which, durtation extended, produced 1080 her period of laik or an average of over $3^{\frac{1}{3}}$ gallons per day. An other, an eight-year-old cow, which had been in milk for 201 days, produced 699 gallons of milk, or an average of about $3 \frac{1}{2}$ gallons per day ; while a third which had been in milk all through the vear produced 1,180 gallons, or a daily average The best of the Shorthorns had to her credit the very fine yield of 1,160 gallons of milk in 320 days, or an average of over $3 \frac{1}{2}$ (32.26) gal lons of milk per day. Several of the other cows gallons of milk per day, but their net average gatlons of milk per day, but their net average
fell slighty short of the fine performance of the Red Polls. Sher Quite a feature of this milking record is the
good show made by the Jerseys. As a breed, good show made by the Jerseys. As a breed,
Jerseys are noted more for the quality than for the quantity of the milk produced by them. An average yield of 630 gallons per year over a whole herd of 31 must, therefore, be considered very remarkable one of the Jerseys in
this herd gave the great yield of 1.050 this herd gave the great yield of 1,050
qallons of milk in 324 days, or an average of This is gallons per day for a whole season his har the best performance for a cow of Wis breed that we have come across for some
time. The cow which gave this fine yield was Wrod in 1808 which gave this fine yield was tanco.en that she affords an admirable ex

The Manufacture of Beet Sugar. Oi late we have heard a good deal about b
sugar factories, and the one thing more thin other which has struck the most of us has been lion to $\$ 800,000$ that it costs to build and equip a factory seems a vast sum to spend for the
carrying out of a simple process. No one, how ever, who has seen one of these factories will wonder at of brick, with steel framework and structures of brick, with steel framework and
cement floors, scarcely any wood being used in their construction. The costly vats and rating pans, diffusion cells, carriers, driers are all on a gigantic scale
factory: the beet sheds, the factory in a sugar the lime kiln. In some cases there is a fourtha cooper shop, where the sugar barrels are made
Usually each of these divisions is in Usually each of these divisions is in a separate
building. A beet shed is a long, low building with several driveways, on either side of which unloading can be done, besides one or two tracks for cars. When empty, 80 or more team-loads can be unloaded at once. Capacity, 10,000 tons and upwards. The beets are floated from the
sheds to the factory by water running in narrow sluiceways. They are then washed in warm water by machinery, elevated to the top floor, auto-
matically weighed and dumped into the shredder straw. They are conveyed to the diffusion bat tery, a long row of steel cylinders, where 95 per cent. of the beet juice is washed out by the forcing of warm water through the shredded beets. The liquid is then mixed with lime, and
carbonic acid gas passed through it By means the impurities present are rendered insol uble and are extracted by filtering. After being treated with sulphur fumes to further purify and
bleach it, the liquid is boiled down This is dow in vacuum pans, the heat being applied by stea pipes passing through. Upon leaving the las
vacuum pan, the mass, partially crystallized, passed to the crystallizers, where the process completed as far as possible. The sugar and mo
lasses are separated in the centrifugals. Thes resemble immense cream separators, except tha
the walls of the bowl are of fine wire gauz hooped with perforated steel, through which the molasses flies, leaving the sugar inside. The sugar
is then dried and barreled. In 18 hours from the time the beets enter the factory the sugar drops The lime kiln needs no description. When
asked why they did not buy lime already burned the answer was that they not only wanted lim
fresh, but it must be burned in a speciol way At Bay City the limestone used is brought from tain purity will answer.
day over five million gallons of requires eac season of 150 days, 22,000 tons of coale 2,500 working season, called the campaign, begins about the middle of October, and except for two
or three stops to clean up, or a break continues night and day, Saturday and Sunday, for 100 to 150 days. The daily output is about 800 barrels of refined sugar. No other kind is sent out. Th which is again refined to the desired arade The waste products hitherto have been pulp and molasses. The pulp has been allowed to acriver. This waste will not long continue, how ever. One factory-owner said that in a few years
lime they expected to make enough out of their waste to run the factory. When asked why the farmers did not haul away the pulp for stock food, he said: " Because they're no good. That's
whyy." A milkman near Bay "City, who keeps 13 cows, uses it regularly. He gives to each cow saves his hav, increases his milk yield, and has no fond results. The molasses, a certain re
matnder of which it has been found impossible to Chstallize, is now being bought up by a firm
which is building a large factory for the manu facture of alcohol from this by fermentation and Wour years ago the first bect-sugar factory in

tons or bets per day. now there are nople
an 600 and most of soo tons capacitys

so of $\$ 1,000$ and even leess werm ancerted i, second factory-also inl Bay Mity-wn| $n$ ore evening.
is no question of the popularity, of co Jichiryin whe then
sugar is cheaper and coal dearer in this country. The Michigan farmer receives this season $\$ 4.50$ per ton for beets 12 per cent. standard. The price in. Ontario in contracts already made is $\$ 4.00$.
On the other hand, much more use would be made tione pulp here, and while our climatic crandiis, we holiore sur to those of Michigan, the soil our people are not willing to take a second plac to anything on the contingent

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Advocate"- the ha published - has not been remitted, please do paper

Sheep and Shepherds
cumstances that make differences in sheep of cir first set of circumstances embrace conditions of bination, evolve and proserve classes acting in comferentiated from those of places with a different peculiarlysical conditions. Great Britain has been ferentina fraitiul in the production of many dif the basis of differences due to ds. Classified on British sheep are frequently designated as the plains, upland, and mountain breeds. This classithe is a gradual decline in, generatly speaking, there sheep that feeds on fat pastures to the plains sheep that travels, far over rough ground for a differences that is important to appreciate the Heavy breeds of sheep are physical circumstances

beet-sugar factory, bay city, michigan.
for a hilly, scant farm, and the man who intro- Besides the man who knows breeds, but not duces such a breed into such an environment will
find his stock deteriorate. They will cease to the good types of the breed chosen.
The second set of circumstances operating to ment. 1 wild animal carries a tather fixed and constant set of qualities and properties. It does hot vary much from generation to generation, and wild animal, you can readily recognize the species among the same species, these are due to physical proving a wild animal is slow and difficult at the begimning, but every change makes furt her change highly-improved animal. Compared with cattle. the omly other meat animal of similar habits and
$\qquad$ case of the cow Sheep being, then, the ambodiceptithity and impressibility are very great. Thes change This is a blossing to the skillful shep-
herd and a hane to the thiftless ome There wil
alwane former clase of inn in repairing the inturies and Giat of shephords.

are the choosing of sires, the culling and selection summer and the character and quantity of both care in some winter feeding. It is by reason of the that we have such diversities in the character the sheep flocks of the country. One man may be Such a shepherd will have a flock of strons edea of mixed character and countenance : some of approximately correct long-wool type. Leicester or ock. Others will be mixed Cotswold and frontal cester, with something of Leicester face, but with a bunch of foretop added to it. Others will be down, Shrep or Oxfer the procuct of a south wes. And others, again, may show a couple of crosses of the dark-faces and be pretty nearly niformy brown in face and be smaller and more - Another shepherd may be strong on the breedas common be a poor feeder (though this is not breeder). He may fancy the Cotswold, and have a well-fleeced lot of ewes of good blood and marke weight. but that are not kept up to the right rather too evident by reason of the back not being covered with flesh. Want of generous feeding shows faster on the heavier breeds than it oes on the middle-weight sheep. Many a man sheep, and has backed his faith by paying fancy prices for improved stock, but grows nothing but scrags and runts. It is always safer for a man to begin small and with stock of moderate cost, unment. If a man has to ter of care and managebreeding at the same time, high-class stock is almost sure to deteriorate with him.

Besides the man whows breeds, but n and not breeds or breeding, there is a third class Clacs do not know either one or the other. This class of men is the class that hopes to get bread by some other way than the sweat of their brow. their sheep without putting anything in. Their sheep are usually a bunch of run-out, mixed. grade long-wools, with long legs, light bodies, and
kempy, neglected coats. They are usually a kempy, neglected coats. They are usually allowed cross-bred than pure-bred, the lambs are neither docked nor castrated. How easy it is, after seccumstances, such as the rape field the and circumstances, such as the rape field, the ranges, the kind of man the shepherd is for care and manaroment throughout the year. (In the basis of a sur-
vey of a flock, shepherds four classes. 1. The class that illustrate almost botal neg 2. The kind that feed well, but have litul ideal or favorite sheep for themselves. Such mell usually despise books and agricultural yhapers, mend
fail to recognize that facts are facts, whother thoy are recorded in books or gained from, whet ther they 3. The kind that know something of birceds and
breeding , and that talk a pood deal, and leave the tare of the flock to someone clse. Proonssionat apart from owners, and it very tarely happen - conditionc contime must liw lower
for an
4. The last class of shepherds is the lot who are at. the top of their business in both breeding and feeding; who know their favorite breed it
every detail, and who know other breeds prett well besides, and recognize in them excellencie on a par with the excellencies in their own and enviromment. They are always open fo information from books, papers, their neighbors cellencies. defects and peculiarities of their own breed and flock. It is to this last class that the higher task of selection and improvement of the general sheep stock of the country specially b, prize the patronage

daisy of highfield.
Typical Leicester ewe. (See Gossip, page 753.)
Jerseys in the Pan-American Dairy Test. In my opinion, the value of the test to the ordinary dairyman and farmer has been over estimated, owing chiefly to the fact that no ${ }^{\circ}$ tru test of a cow's capabilities can be made im
shorter term than one year.
The rule of 9c. a pound for total solids is not
The rule of 9 c . a pound for total solids is no
a just one, as the solids in milk containing per cent. butter-fat are worth more than that i 3 -per-cent. milk, thus discriminating against the richer milk.
This short-term test, however, has confirmed some well-known facts

1. That there are two distinct classes of cows and you camnot profitably have the two cfualitie combined in the same animal.
2. There is a great difference in individual members of the same breed. Dairymen should
keep an accurate account of the milk produced hy keep an accmate accomt of the milk produced
cach cow, making frequent Babcock tests.
Taking evervining into consideration, Jerse womeders meed not feed disappointed at the out-
come of the test. The cows in the test are somecome of the test. The cows in the test are some-
what below the average, owing to the fact that what below the a derage, owing to the fact that
wealthy Americans buy up all high-testing canadian Jersess as soon as they hear of them. I
have orders now from several breeders on then
other side for any large producers 1 can find. it other side for any large producers 1 can find. It
Was therefore a very dincult mather for Mr. Biderkin to secure high-class cows that came in
finst at the right time They had no preparation whaterer: two had been milking since March
ist. one of then being in calf when the test Ist, opin of them being the eati when whe test in the other himul, ever: thinly nuturyil and and acial. even to the placerive of the electrie fan "at Reys.


The Ripening of Cream on the Farm. from one churning to another very satisfactomity as long as the flavor keeps right: but There is more butter spoiled on the farm by shows any signs of going wrong, make a frub any other cause as the flavor of the butter is made before the cream roes into the churn Cleanliness, of course is also of grtat importance As a rule, the farmers' wives keep their milk and cream clean enough: but that is not the only item of importance. The ripening of the crean is of equal if not of greater importance than the eternal vigilance that is needed to keep perfectly
clean all vessels that come in contact with the product.
Some may think" that 1 lay too much stress On this subject of ripening : but 1 do not think
so, from what I have seen of the cuality of but so, from what 1 have seen of the quality of but
ter made by housewives that are clean and care ful to see that foreign substances or dirt does not get in. And then. not knowing anything about the varieties of bacteria their cream con-
titins, they proceed, innocently cnough, to t.elp latins, they proceed, imnocently enough, to felp
the bad ones on with their vork of multiplying
by making the conditions favorable for their by making the conditions favorable for their
growth. This is done by placing the cream crock or pail in a warm place, usually beside the kit chen stove, and keeping it there from the first or ferment enough, as I heard one woman say. As a rule, there is nothing so very offensive about the butter made by these good women,
while it is fresh; but it distinctly lacks that while it is fresh; but it distinctly be obtained by using a good lactic-acid starter or culture tains both good and bad bacteria. These left $t$ themselves will do the work for which they ar
adapted. The good ones or lactic-acid bacteria will do their work of souring or ripening the cream; but during this process the bad ones have not by any means been idle, and the result is a bad-flavored butte
On the farm, of course, we cannot readily ob but with a little care and good ind all respects

By the way, how many readers of the cr's Advocate" agree with the methods dling butter described by Farmer's Wife," inn roth issue? I have watched these cold
some time, hoping to see some comment article referred to ; but as none has appeared What surprises me most of all is the through to remove the buttermilk: Now
butter is in the granular form, as it should when she puts the salty water on, gives the chom his operation until the water comes of ehing the buttermilk must be removed But sute en describing her method of dressing the buttermilk out: after this is completed, she proceeds to wash . There are three things I would hke to know First-Where d Second-If she dresses it out, what does she rash it for afterwards
Third-How does she keep the butter fron becoming greasy, when she puts it through all of

The busiest season for the "Farmer's Adrucat staff is approachins, and you will confer a faver

Individual Effort.
Wie appeal to the readers of the "Farmer's Avocate " in a matter of mutual concern. At actor but during the latter part of Deember when the rush of renewal subscriptions is on and His Majesty's mails are overtayed with the arriace of holiday literature and gifts, it becomes still more serious, luring the year now early gone our first and constant aim has been to render our readers individually and the cause of agriculture in general the very best and most helpful service possible. The way in which the cordial appreciation of our readers has poured in by every mail has made our work n whensure and has decided us to attempt still larger and better things for 1902, beginning with a magniticent Christmas number (to be issued on December 20th, which goes without at? extr cent our subscribers. All new subscribers for 1902 are also entitled to a copy until the extra supply being printed is exhausted. We therefore confidently request the co-operation of all our old subcribers to facilitate our work at this busy season

huttercur's pride.
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BARON ABBOTSFORD © 6087 Two-year-old Shorthorn bull. winner of first prize. Royal Shoy
Cardiff, 1901. (See Goossip, page 7il.). Property of mr. Wm. bell, alinwtck, Northemberlani
casily secure one that answers the purpose ve Well. Some people make a practice of using
tuttermilk to ripen their cream, but 1 find that the flavor is not as good as it is when I use
thickened skim milk which has at good clean acid that has not a good flavor, so be very carefin What you put in your cream. Twenty-four hours (o) of my culture (as that portion is very likel the remainder upeas fine as possible hefore add lancolv, how much culture shatl we use? The argely depends on our circumstances of ond

$\qquad$ Which to ripen it use less cullunce and ' kepe| it "nower temperature ley "vening then elvean

Advantages of Cream Separators.
number of letters having been received
office desiring information regarding the Mins ollice desiring dinformation regarding the atr
vaitages to be drive the use of the creath eparator over the ofder-aashioncd methods "i, creaming nem, wher of farmers tand furmers' wives who have had experience with the separator, giving their opinion, and their reasons for the filve years' experience with sera1 have used a separator for over five years nother. I think a farmer would be safe in getting a separator if he had from 7 to 10 covs, for which a hand separator would boe sufficient with a tapac
ity of 25
gallons per hour. As for myself, I have been using the horse tread power, which is a three-horse power. 1 only use
one horse for running the milk, and the powert can be used for cutting feed or grinding grain. If think if I were getting again, I would get a gasot
tine eurgine, which would run it steadier. I consider that with the separator 1 get more more of it and it conmends aet ter price and the market Unless it is run perfectly smoothly it will not do its work properly. We have never used tany hat any trouble. I have put some on, more or ing the bowl, after the nev milk, we run through ime) about a flim mink then (in the winter put in aiter the power is stopped and while it is water. Then we have a regular
ing it avith. For the tinware, they are first Washed with cold water, then scalded.
We never had any testine dond no cream risnac any the sktimg done, but there standing. We merely turn a screw in the bowl of the
separator one way to thicken, the other way to We have an Alexandra separator. number Which, I
ded and casiest eleaned of any which 1 have seen. Any boy is able to handle it. $\begin{gathered}\text { Robert H. Judd. }\end{gathered}$
cleaner and quicker creaming. 1 consider that any one having 8 to 10 cows Will be fully justified in investing in a separatos 9
I lave used a National hand separator for the 9 I have used a National hand separator I milked this year with entire satisfaction and would not think of going back to the old
systern of creaming by gravitation. 1 have milked system of creaming by gravitation. I Ihave myiked
the 9 cows and separated the milk myself all within 2 hours. A hand separator is sufficient more. I have had no experience with power separators. Among the advantages of the sepa-
rator over other methods of creaming milk are that it is cleaner and quicker, and that more in warm weather) it is hardly possible to get all the cream by setting it either in aeep cans or Shailow pans. Another advannage is that the calves, without the labor of carrying it to the house, heating it, and carrying it back again For best results 1 find that the separator should be run a little faster than the agents
 Theely. For cleaning, I take out the inside of using each time, first washing with warra water. Wint a hrush, and then seaking test of the skim milk made. For securing a thicker cream whicn cows are in flush of mike, the butter comes mimer when the cream is thick. For thimpen thid giving less milk, ofen the bowl a little by
anning the serew back. I I think it is important Wat the cream gathered for a churning should lic
hours before churning irss Joseph Robson.
separator sumficient for 1.5 Th
my opinion, any farmer keeping five pootd and manufacturing the ir milk into we withut $\wedge$ round. cannot atford is sumficient for $1:$

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$\qquad$

The principal advantage of a separator ordinary practice, but it is also a great advantage to be able to feed the milk to calves, etc.,
without any further trouble-carrying, skimming, heating, etc. Always run separator at as high speed as the printed instructions allow, being ature as it came from the cows, even if it be necessary to add a little hot water in wery cold
weather. It is a good plan to warm the bowl befort is a good plan to warm the bonit always used a rather light oil, applying jugt We b butter-fat, except to set it in creamers and fut it in cold water, to find out if we were losing any quantity of cream. Sometimes there would not be any sign of cream; other times there would he
I suppose this could only be accounted for by the I suppose this could only be accounted for by the
milk being run through at too cold a temperature or at too slow a speed, or perhaps both. My practice of regulating the thickness of the.
cream has been to increase the inflow of milk fore thin cream or decrese the inflow for thick cream. regrettest like to say further, while I have never in connection with it that needs to be attended to regularly, and that by the male portion of
the houselold. Persons who can wholesale their the household. Persons who can wholesale their
milk or send it to a good cheese and butter facLory ${ }^{9}$ or 10 months in each year, caln perhaps outlay and labor, as if they had a separalu:s

robin adair if.
Winner of the challenge cum hest Hackney stallion, any age, at the New York Horse Show, 1901 .

EXPERIEN(E WITH TREAD-POWER SEPA- Every separator is supposed to be set to skim I consider that ten cows will warrant any $\begin{aligned} & \text { Droperly } \\ & \text { thicker cream is desired turn the cream screw }\end{aligned}$

 lbs. per hour. $\begin{aligned} & \text { Wave animal heat out of cream } \\ & \text { what you have, and stir thoroughly when adding }\end{aligned}$ rator. I have a tread power which has given it. Cream must not be churned in less that 2 good satisfaction. I run belt to a shaft and them it is letter if left 36 ) and mot fill cream is well
 One great benefit or arlvantage of the sepa-
 always sweet and warm for the calves. and 20 h hand separatob of 300 lbs . per hour capac per cent more butter will be madd with a sepa- ity would be sufficient for \& to 10 cows, and ond better flavor. Care should be taken to not start, 20 cows and up, a stop of its dwn accord, and ti) maintain a capacily for "ight ymas, have run it with al gil with good satisfaction. ©il always before the best satisfaction. The advantages of the I run a little hot water through when I am the churn, wwoth and cleaner cream, close skim-
 cream and makes it much easier to clean. I Wash every palt thomoughly, and find not trouble in
$\qquad$

| tiil the |
| :--- |
| start ting | starting

turned 0 get herl Warm water

THE SEPARATOR A LABOR SAVER. Regarding the advantages of a cream sepa
ator, I would say that a good deal depends o the people as well as the number of cows. If they
don't take much interest in the making of butter, and there is only one person as a usual thing to
milk the cows, they are better without one, but if the farmer as well as his wife is willing to be on hand at milking time, or two of the family
then five or six cows would warrant them then five or six cows would warrant them in
getting a separator. One of the large hand ories will easily handle the milk of twenty cows. Have of twe 500 -lb.-per-hour machine separate the milk capacity which cows. There are machines of that scparate clean. Have not had any experience would not be bothered with one. There are quite a few advantages over all other ways of s.kimming milk. First, I would mention the increased
number of pounds of butter to be had. Our experience is that with an ordinary cow one pound a week more can be got. Another is the excellent condition of the milk for calves and pigs. Then, again, perfect control of the cream can be had i can be made. Perhaps at this point it would not be out of place to mention that a great deal depends on the handling of the cream for the making of good butter and for getting all the
butter out of it. The separator also saves great deal of work. Any one thinking of buying a machine should
make a careful selection of the different makes and not trust too much to what agents say, but
have them tested at home and know what you have them tested at hon
are doing before buying.
The separator that
th an ordinary milk tester one can hardly see a trace of butter-fat in it, so little that we can't
estimate it. I have tested milk from machines ing up the machine a great deal. In set ary. A solid block of wood set in the ground p with alternate layers of and the hole filled vell pounded in, makes a good one. See that the will not shake while working. Don't get a cheap oil, but get the best hand-separator oil to हe power separator is too heavy for a hand machine ower separator is too heavy for a hand machine $t$. With each machine there are directions about the number of revolutions per minute, and it is egularity pretty closely, as that makes a differnce in the clean skimming of the milk and for hickness will be found after ripening the cream. If too thin it will be thicker at top than at the
bottom: if too thick you will not be able to tir it properly. Each machine has a set screw
o regulate the thickness of the cream. About the right thing is a little thicker than the deepWe have not much trouble in washing the parts. Use stifi brushes for cleaning, occasion-
ally using a little soda in the water. In con-
clusion I clusion, would say, make a careful selection of couraged over a few failures, and you will never

Canadian Winnings at New York Horse Show

Square Gardens last week, in unusually strong
competition, the few Canadian horses entered were successful in winning a number of very im-
portant awards, prominent among which was the record made by the Hackney stallion, Robin
Adtair II, owned and exhibited by Mr. Mobert
Roitl Beith, ex-M. Po, Bowmanville Ontario, who was and later in the week captured the sweepstakes
challenge cup, valued at $\$ 1.000$. for the best Hackney stallion of anyy age in the show, a magcompany in which he compented. Rolin Adair II feet: 16 hamis high, thl weighs 1,300 bos. in working condition. He was sired thy Rufus, and
his dam, Fantail, Wats by Derimark. He was int




## merican Exhilition, where he wask given second lace, but the Farmer's Advocate," in the re-

 owt of the show, predicted that with a little Show he would take a better place. Mr. Beith'scash prizes at this show, in addition to the cup, cash prizes at this show, in addition to the cup,
amount to $\$ 475$. Other success Canadian exhibitors at New his saddle and jumping horses won close to Foronto, with horses in similar classes, who wol nd Mr. L. Meredith, London, who won \$200.

## A Short History of the Oxford Downs.

 Having been often of late asked the history an Oxfordshire man and a breeder of this class of heep and, in iny boynood days, personally acquainted with many of the originators of thebreed and having collected a few facts from some of the breeders in the ""Old Land," I give you and your readers the benefit of my knowledge and The origin of the Oxford Down was the defi sheep. Mr. George Adams, of Pidnell Farm Berkshire, England, in referring to this fact, says: "We do not claim it to be the only breed
now in high favor which is founded on a cross, but it differs from almost all others inasmuch as year 1828, about the time of the founding of the Royal Agricultural Society of England, Mr. Joh Hitchman, of Little Milton, Oxfordshire, England,
an extremely
successful breeder. commenced to ross the Cotswold with the Hampshire Down In fact, the idea seemed to occur almost simultaneously to several distinguished sheep-breeders
to unite in one breed the diverse qualities of the


EARL OF FAIRFORD 2nd No. 21368.
Typical Oxford Down yearling ram, in breeding condition
Bred by $\mathbf{J}$. T. Hobbs, Maisey Hampton, Fairford, Eng.
Now owned by and at hed of the flock of messrs
long- and short-wooled sheep combining the hish mutton graitics ane the weight of the lon Wools. This ideal was in a marge measure ac Down) lished by hic essfully carried out by those of the present day s 1 will endeavor to show by a few facts and The names of the other gentlemen referred to ommenced to cross in 1833 ; also Mr. John GilLeigh; Mr. Nathaniel Blake, of Stanton, HarFarm, Hampshire, a year or two later. These men, with the exception of the first and last in the neighborhood of the town of Witney, so Forty 10 the manufacture of blankets. weekly, attending the grain market held there, also enjoying the privilege of looking over the all the gentlemen named. And well do I rememining some fat wethers exhibited for sale on the "These are the sheep for the butcher."
Ar. Tuynam, of Whitechureh Farm, Hampshire took a prominent part in pressing of the publice In the Farmer's Mragazine ers, offering to submit 25 wether lambs drawn
from a flock of 300 to aul impartial trial for nine

ting in the improved Cotswold ram and the bred 1 Iampshire Down ewe, had been established
for nine years, which would forts in 1830 or 1831.
Society for 1853, Mr. Se Royal Agricultural ham, writing in May of that year, said it was then nearly twenty years since he had begun wold, and he published a table shorving the superiority both in mutton and wool value of the then new breed over Cotswolds, Leicesters, Hampshires, and he even adds Southdowns. His Philip Pusey, a gentleman who spared of Mr. money nor pains in agricultural experiments and pursuits, upon whose grounds the great world's trial of agricultural implements was held in 1851, and who afterwards became an ardent advocate marked that the great difference in favor of the Oxford Down arose from their superior quality and therefore higher price per pound of the mutthe as compared with the long-wooled sheep and pared with the short-wooled sheep. .. The advantage of the breed both then and now," says
one of the most prominent breeders in the old cisely than as could scarcely be stated more conmost successful Gloucestershire farmer of my inti mate acquaintance, writing me in May last, says 1 purchased ram lambs from Mr. Tuynam in 1838 and 1840, and the breed is holding its own mony that they are not only holding their own here in my own neighborhood and Province of Ontario, but are steadily gaining ground wher cver they have been intelligently handled. The great drawback in initroducing and using this and a grade sire after the first cross, which is a
backward rather than a forward step; but whe progress , sires are continually used, there is progress and success. Sheep-men in the West are
beginning to realize this. The demand for the Oxford Down is steadily increasing, to be used as cross with inne-wooled ewes for mutton pur poses. A friend of mine writes me from Wyoming (U. S.) that he had gone out to the mounproduce of some rams he had sold and sent out there a year ago. He says they are beauties, many of them weighing from 90 to 100 pounds wools have lombs weiching from 40 to 60 end each. The croccbred or siade Oxfords sold there (Wyoming) for $\$ 1.40$ each; the fine-wools had to be kept over until another year. For many years that most in use for a time was Down names wolds. It was the year 1857, at a meeting of breeders held in the City of Oxford, that the title Downs) was Downs (now shortened to Oxford the two methods of crossing previously given, there was a slight difference: Mr. Druce using
the Southdown and Cotswold, Mr. Tuynam the Hampshire and Cotswold. Mr. Druce used, no doubt, the coarser type of Southdown, and Mr. Messrs Gillett fined type of Hampshire. The did also Mr. Blake. The success of their labors may be gathered from a report of Mr. Clare published in the Royal Agricultural Societ, iournal in 1854. He refers to the Oxford Downs as " The glory of the country the most proft able sheep to the producer, the butcher, and the the breed and summarizes its acting account of trons in terms which hold as well recommendaopinion ty-five years ago. Such, at least, is the Adams, of Pidnell Farm, England.
Some account of the history of the breed in Society of England may be Rathered Agricultura of prizewinners which appears in the present vol ume of that Society. It was not until 1853, at the Honn, when a special prize was offered by or black-faced chive for Shropshires or any gray favorable opening for Oxford Downs in the prize list. At that show the first prize for aged rams in 1859, in the class, "Short-wools not South Down. In 186 ? show, the breed was for the first time placed on that period the Oxford Down section has always In the a prome year 1862 ure of the Royal Show Stock) also provided separate prizes for the Oxmeeting. a silver cup was offered for the best pen
of Oxford Downs. Shropshires or cross-bred
wethers. This prize was won five times by the Vethers. This prize was wor five times pxtra powns opece by tho shropestrice - of the horese ase as sire thaten in his 11 -
weepstakes over all breads whe thency when the with a yearling ram.

Then we may follow their record in the goth in the United States and anarla. At Detroit in 1892, Mr. Arkell, of Arkell, Ont., Canada, won the $\$ 100$ prize for the ten bost mutton sheep with fifteen entries, all breeds com-
peting. In the same year Mr. Arkell won the peting. In the same year Mr. Arkell won the
champion cup over all breeds with Minnie Mills at Detroit, and in 1893 the Cooper Cup at the Fat Stock Show held at Guelph, Ont., Canada. We might continue to give instances of how that in later years the Oxfords have won honors both
in the show-ring and at the experiment station. but the reputation and attention which they won wherever they have gone has made that task unnecessary. In the more carefully-nurtured flocks of the brecders of the east or upon the rough
ranching lands of the West they have become as firmly established and as favorably known as any firmly esta
other breed

Chicken Fattening and Profits.
The Department of Agriculture at Ottawa has ${ }_{2,592}$ fattened chickens sent this season. These were fattened at the poultry-fattening station at Bondville, Quebec. They were sold in Liverpool, holesale, at fourteen cents per pound, and the chickens at Montreal
The experiments at the Whitby, Ont fatten-ing-station go to show that as a rule farmers hold their chickens too long to reap as much
profit from them as they ought. The younver profit from them as they ought. The younger a
chicken can be placed on the market the more money can be made out of it. According to recent experiments, the cost of feed for one pound of gain in live weight for a chicken three months chicken is kept until twenty weeks old the same of feed per pound of gain in live weight is six and three-quarter cents. A saving of two and one-half cents per pound can thus be made b
selling a chicken when it is three months old in selling a chicken when it is three months old in-
stead of waiting until it reaches the age of five stead of waiting until it reaches the age of five
months. The experiments also show that a chicken fed in crate makes more gain than a bird that is left running around. This denotes that greater profit is made by feeding a chicken in
crate when young than by allowing it to run crate w
outside.
QUESTIONS AND ANSWERS. 1st.-Questions asked by bona -fide subscribers tothe "Farm

- Advocate" are answered in this department free.
 fore, we reserve the right to discard eqquiries not of genera
terest, or which appear to be asked out of mere ouriosity.
Srd. - Ouestions should beclearly stated and plainlywurit Srd.- Questions should be clearly stated and plainly written,
on one side of the paper only. and must be accompanied by the
full name and address of the uriter, as a guarantee of good
 fith.-In veterinary ouestions, the symptoms especially must


## Veterinary

SUSPECTED CONGESTION OF The Liliver - in ungs of a cockerel that we noticed ill and killed to see what was the matter with it. It also had what was the matter with it, and if hot feed 2. We had it hatch of ? incubated Black Spanish chickens come offi in June. They seemed to do all Their crops filled up with a frothy, watery matter hat seemed to choke them. Only a few of them ou tell what ailed them
Ans. -1 . The pieces of lung and liver sub-
mitted were in too advanced a state of decommosition to give much help in arriving at a rasonable diagnosis. The ssmptoms are too
menger to aid one in making more than a guess it the trouble. From our experience and the of the liver. This disease is quito common in poultry and is the result. of lack of exerche. or
taking tainted food, infective diseases. and obwhecion to the ciremation of heart and lungs. It is often seem in birds "a very fat condition. A post-mortem exami-
"ation shows the liver to be enlarged. cmoorged Wh blood. tender and easily crushed. Presention " hetter than attempted cure Epsom salls, Whowed with daity doses of hicartomate of sode Mantities, would likely he a canse diod from int
2. The Black Spanish chicken diod ammation of the crop. The disease may be
ansed by overfeeding or irregular feeding. Thi The irritant, by empth ang thew co. whe then pis rains of subnitrate of hismuth. and water
icarbonate of soda in a teasponiul on water
'birds without feed and give in to

## - mingbones.

colls himed legs? They appeared all riwh when Sucking the mare. When I weaned him I turned between the hoof and fetlock joint. They sepm sore and stiff and seem to be getting hard. In harvest time I worked the mate and jeept the colt used to rear un and pet his hali door. The the door: his hind feet often slipped, and h would fall. Would that be the cause of the blemish, or what would be the cause, and what would him exercise by turning him out for a whil gave day. I noticed him lame first about three weeks ago. SUBSCLRIBER.

Portage la Prairie. your colt is probably due to his rearing over the door and throwing a greater strain on the foints such enlargements often disappear. The enlargements will need the application of "t blister, such
as biniodide oi mercury, 1 dram; ${ }^{\text {cantharidine }}$ as biniodide oi mercury, 1 dram; cantharidinc
ointment, 1 ounce. The blister should he well rubbed in and the colt tied so that he caumot
bite the blistered parts. Clean, sweet lard should be applied daily. Woutd advise consultation with all valunhl local veterinarians if your colt is at
$\qquad$ Teamster drove him all winter and never noticed anything wrong with him. In spring I noticed a hard lump about two inches behind his ears, ahout
half the size of an ceg. The lump is as hard as a bone. Worked hard last wimter, but did not
a hot
work half the summer. Is well fed while workwork half the summer. 1s well fed while work-

a glimpse of the c. p. r. stock yards, winnipeg
colt injured by barib wire.
kepeps thin. Feeds well. Agre, ahout 11 years Ans.-The lump is the result of at buise if would result in allowsed of poll-evil. The part shoulde be blistered with hiniodide of mercurs. dram: clean lard, 1 ounce; well rubbed into thin day. The blister may be repleated in two werks due to a varimy of causes -too long coat of hair. his teeth may be out of order. ing Quinine, 3 drams; tincture of the perchtoride of iron. $1!$ ounces s water to make 1

diseased ovaries in cow.
I have a pure-bred Shorthorn cow, 9 years old
which calved last April, and in June came in ses son and was served by the bull. In three and six weeks after, 1 was suspicious that she was in sea-
son, but she did not show much sign. After that she came around two or three times, every thre weeks, and was served but failed to get with calf Then she came irregularly, sometimes in two an sometimes in four weeks, and for a month past she seems to be in season all the the cause of hol failing to get with calf? Will she be likely to arwhile before breading har or should I keep out letting the ball serve her? Ans.-lll cases such as you duscribe, the trouble the ovarics. We would advise you to let the cow go at least two monthe before hroeding her again.
 and the insides of her legs just below the hock till remain swollen. What can I do for them th Ans-Areare? SUBSRIBER. Ans.-Apply a blister composed of 2 drs. eath cury adered cantharides and biniodide of mer len parts and her so that she cannot bite the parts. In of hours rub well cannot in the parts. In 2 and apply vaseline. Let her head down now and apply vaseline every day until the scale comes winter unless the way once every month, al meantime.

## hemps in pigs

I noticed in your valuable "A Advocate," the
disease "thumps in hogs " mentioned. Will you kindly describe symptoms, cause, and treatment

Ans.-A condition known as thumps in pigs is form of indigestion and usually due to overfeeding. The pig becomes dull and stupid, and ir many cases the brain becomes congested, when he will be symptoms of delirium. The bowel are constipated and appetite impaired or wholly gone. Want of exercise and high feeding is the ase. If the brain be affected, throw cold wate aut head or bleed from the jugular veit or the ear or tail. Give a purgative of linseed soap injections of wan wat with a bowels act freely. Give nothing to eat until the
 tangled in a barb-wire fence, and got badly cut on the inside of the hock joint. I have ke, it the caund washed with cican warm water and has swollen badly from the hock down to the fetlock. The cut is not a deep one, but much torn and ragged. It appears to be doing al right, but the edges can't come together becausc
of the swelling. What can I do to reduce the swelling, as I am afraid it will stay that way Ans. attended to? H. D. F. water, to which should be well bathed with hot every pail of water. Bathe well three times a day, and keep the leg well bandaged from the foot up to the hock, which include in the bandage, and only remove when bathing the leg. For become chronic, use hydrary bichloride (corrosive sublimate) 40 prains, dissolved in 8 ounces of water. Apply with a feather three imes it day cerebral trouble in cow. the have a cow which is subject to a fit. When very heavily coming on she commences to breathe become rigid and falls down. At this stage res piration seems to almost cease, and she lics as though dead for perhaps ten-minutes. After the first effects of the fit are over she rises to her for somte time. Can you say what is the cause and give me any cure? Ans--Your cow has some brain affection. possibly only an occasional engorgement of the ing will give relief. If the former, nothing can ing will give relief. If the former, nothing
be done, and it is probable it will kill her.
 were afecter with a pecuiar disease in the feet-
swelling to an excesive extent, aiter which beal
ing ensues tint ween the hoois and at top junctio the hoof completely rotted away, and proud flesh protruded largely, I cut away the prond
flesh, bathed freely in hot water, and applied lotion of vitriol. What is the disease? Your very practical paper now appears one
our necessities on the farm. Ans--Your cattle have foul in the fect, cause produced when cattle are pastured on damp ground, especially when they walk through wate
and then through coarse grass or rushes: or i may be caused by walking through liquid manure other irritating substances. Treatment early stages clean out well between the clouts an bolic acid to 20 parts sweet oil) twice daily. In more advanced cases poultice with boiled turnipthe oil. If eruptions, followed by proud-flesh. Of with a feather until the proud-flesh has been re ment, recovery is slow and there will, be a slough ing of a triangular portion of skin and flesh, and n extreme cases there is a sloughing of the hoof as you describe, but if the cause be removed an place quickly
defective vision in colt. he was foaled, we noticed that the pupils of both very apparent late in the afternoon when the ligh got weaker and the pupils expanded. In a strong
light, it was not very pereeptible. She blunders but judging from her actions, I do not think she is blind. During the last two or three weeks the left eye has got much clearer-looking; the right remains the same. the eyes are film. It is the big colt, and has been and is doing very well. I
Ans. - The condition' of your colt's eyes is con genital, and nothing can be done. From symp-
toms given, $I$ do not think the colt is blind, but ision is defective. The eyes may be normally
reak, and if so they will be liable to occasional attacks of inflammation from trivial causes, and one is take good care of the animal, and if should be attacked with inflammation of th with warm water, and put a few drops of the fol lowing lotion into each eye twice daily: Atrop
culphate, 3 grs.; distilled water. 1 oz.

Consult the label on your pater, and in renea

Miscellaneoun

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conpury sumen
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al cumti ions of the cometry
$\square$Weight of crop per acre and value for fied. Wh.uld
lie of special value.
made good ensilage on this farm. .omect.t1s is
wilted a fow days beiore cutting up. We haverepeatedy tricd oats and peas mixed for ch-ilage
also horse beans, soiat heans and cow weat, wat
rate and mied, but have never succord in
making palatable ensilage from any of them. We
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No. 16. Sterling Silver Swiss Chate.
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No. 20. Gun Metal, small size........ 10
No. 21. Sterling Silver, small size.... 10

No. 10. 15 J year Filled Case......... 21
No. 23. 7 Jeweled Elgin in 25-year 22
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Alon the path of a useful
Whilt heart sease ever hoom:
The busy mind has no time
Oi sorrow, or care, or groom
Anid anxious thounhts may be

## White Hands



 have its devote. One would continue her studies at es

















 this and I roallye. imeant to: oh, why didn't 1 do it at
once. You can't understand what an impression all thi














THE QUIET HOUR
The 0ld Church Bell.

## "t hangs it its home in the steeple, streer, That throbs with the wids ryythmic beat. What heeds it the world and to th noises ?

Mitear recks it of traffic's loud din?
Oi tears or the clamor or voices
That speaks oi the light hearts within
Fnough that its duty is ringing
In every condition of weather;
Enough that its mission is bringing
Thin
The spiritual household together:
That speed in a neer ending ch
And chimes over nuptial flowers,
And tolls for the funeral train.
finough that it speaks to the mothers
Enough that it speaks to the mothers
In clear, unmistakable tones,
In clear, unmistakable tones,
And fathers, and sisters, and brothers,
ner
lough that it brings to the altar
The ones who have strayed from the truth
$\qquad$
And riverts roll on to the sea,
The bell in its beliry will be.
And then, when its mission is ended
And turned the last buriad sod,
The echoes full-toned will be blended

## A Sunless Sunday

I thought it was Sunday and I was on my was o church. It was many Sundays since I had been rould pass the time away. I did not hear the bells ringing, which so often rang in vain, and it But to my surprise, on reaching the end of the reet, no church could I see.
name of the street
St. George s, was the reply.
We have no churches now," replied the man
"o few went, and scarcely one to pray." mongst them I recognized many who, like myself, attended church just as a " make-weight" when there was nothing better to be done. no chiming bells, no churches to go to What a blank, long day it seemed. Could not the churches be rebuilt?" wa asked on all sides. "They might be," it was thought. "But it would take such a long while, known to attend any place of worship. "Better wait a long while than never again to hear the chiming of the bells, said another id hargard man, whom we scarcely recognized sour pactor so bowed and old had he grown." But, my friends," said he, "how is it you have not gone ". Be $\qquad$ and spoken, " it is too late; I have given an account of "my stewardship, and have been found
"ranting." Tears coursed down his thin, wan hecks, as he murmured over and over again

The sun was streaming into my window as 1 woke, wakened by the ringing of yonder churchells proclaiming it was Sunday, and as I listened

The Children in Churel

## dike in church to see sabsat

$\qquad$

## 

THE CHILDREN'S CORNER.
The Song of the Wind


## The Spirit of Cold.

The Spirit of Cold blew his ice trumpet, and and flew to the warm south-land; some of the flowers died when he touched them with his frost
finger, but others fell asleep, saying. We shal awake next spring! " The wild beasts ran away to their dens, and the tame beasts were cared for by men who gave them shelter.
" Ah, these men!" cried the Spirit of Cold, in anger. "They have no feathers, no leaves, $n$ and from the wool of sheep. I will kill these men. Then he blew shrill notes from his trumpet and laughed when he sarv men's noses turning blue with cold, and netie boys and girs bowing upon cloth and flannel to keep everybody warm. And from the skins of beasts were made mittens and coats and shoes to keep out the cold. So wher the Cold spirit blew again everyone had warn could not help saying: ". How pretty! Did paint those cheeks so pis
Then the naughty Spirit ran down Poverty Alley and sounded his trumpet of ice, and paon little starved bated barefooted girls and boys were hungry and cold and sick. warme good men and women came with food and and played in Poverty-Alley. blew the North Wind through it, saying, "I will freeze all mankind." But men had gone down deep into the eartl But men had gone down deep into the earth
and brought up millions of tons of coal ; they had gone to the forests or car-loa were ready fo him-with glowing fires that warmed every corne of their houses. They said: "How cold it is We must send a load of wood and a ,on of coa to the poor families in Poverty-Alley
enemy the Spirit saying, "Here fire cannot come, for the Spirit of Water is the foe of the Spiril of Fire."" my good friend now. He turns me into the Spirit of steam. When I am water, I can only turn Slow mill-wheels, but when I am steam I can pull boats and trains, and work great ciry mits, an "How dare you speak of heat?" cried the Spirit of Cold, angrily. He took out his ice key and locked up the Water Spirit beneath a great skated merrily the boys and giris ran out and " I have only given them a new game!" said the Cold Spirit. "But I will kill them with Then he poured the white flakes over the fields. snow hills. Spirit of Cold. "It seems that I can do no harm. Perhaps I'd better try to do some good. the heat was killing people, and he blew gently on his trumpet and drove disease away from the
land. He soon found out that it is far pleasanter

The Wind in the Chimney

And thought of the one she had long since 10
And said, as her teardop, back shes torcaed.
Over the chimney the night wind sang,
And chand a mandy hot one hnew,
And the children said as they closer drew
ver the chimney the night wind san

Am


## Ingle Nook Chats

My dear Guests,-
We have had a fall of snow. This in itself not by any means an unusual event, in in fact, it of ours that we have almost ceased to rogard it incredulously? Yes, is it not miraculous that Those fairy-like, tiny, and seemingly helpless
crystals, falling one by one, have almost the crystals, falling one by one, have almost the power of the philosopher's stone-power to trans-
mute all that might be called gray and unlovely into visions that delight the most fastidious eye? The leafless branches that looked so bleak when shorn of their gala autumn dress, robed in Chis soft ermine are artistically beautiful. Every gnarled stump has donned new graces, while the blustering wind, so madly chasing its downy playfellows, has piled them into marvals of statuary whose delicate curves shame the sculp-
tor's skill. But it is the children the light-hearted children, who get most pleasure from the first snowfall, just as they, unwitting philosophers, usually get the lion's share oi all good things, simply because they guilelessly open Royal visitors would have sep hat the wited a little longer to visit Our Lady of the Snows! Little men and women-their future sub;ects-
with glowing cheeks and sparkling eyes, gaily climbing on passing sleighs or coasting on every climbing on passing sleighs or coasting on crey
little incline afforded by the streets, would have given them another very pleasant memory to Now just a tiny chat about our competitions, and then when next we meet it will te in
our grand Christmas number which is intended our be even mistmastiful than before-if that be possibie. A few days still remain before the
closing of Contest XV., and already a goodly number of papers have bee received. I fear this contest has been
too easy, as several have sent correct
answers: in this case neatness, coranswers in this case neathess, cor
rect spelling, etc. will assist in de
termining the winer termining the winner. Contest XVI., announced in last issura, will prove
instructive as well as entertaining to instructive as well as entertaining to
all who try it, and their number will all who try it, and their number will,
I trust, be large : indeed, the prize obtained in any of these competitions
is but a minor affair: the princins is but a minor affair, the principal
benefit is the brightening of intellect and broadening of mind that invariably follow mental exercise. The come, my friends, to the cosy Ingle
there are seats in plenty and warmol there are seats in plenty and warm and welcome to spare for all. THE HOSTESS,
Ingle Nook Chats, Pakenliam, Ont.

## A Word of Explanation.

zine," feeling that an "poome is dug
both to "Mollie" and to the reader both to "Mollie" and to the readers
of her very interesting and instructive
Notes of Travel for the quence in their insertion in its page a word of apology now, and with it
IVhile Mollio wantion. The positio While Mollie was flitting about from another. barely stopping at any for mose spot the day or two at a time, but taking copious rote quietly at home, could only give to its readers : comparatively small portion of the messages sho for a more convenient seaton, and sometimes they had to make way for notes of timely visits paid to places of special momentary interest, such
as the Glaseov Eshibition. Thus it would oce casionally happen that "Mollie " would be allital of the "Advocate." and sometimes it would be
vice versa. This time it has to be vice versia"Mollio, is is in winter tuarters, and hat given
up gadting for awhite,", before she did so she she up gadding for awhite," before she did so she
took a share in the ." welcome home ", given to the Royal wanderers, and also had a taste of a
London fouk. We can attervials. in more


Man, Poor Man

 He has to content hinself with sombre colurings o He may not wear flowers or t
atter how bald he may becone.

 Af pink veil is out of the question.


the lion pair." directed for mashed potatoes. While hot, shape in
dalls atout the size of an egy. Have tin theet
well thutterect, and place the balls on it. As soon is they are done. brush over with a beaten egg hrown in the oven. When done slip at knife unter
them and slide them upon a hot platter. Carnish
with with parsely. and serve immediately. sices: make dripping suite hot in a frying pan wut in the potatoes, and fryy them on both sides In a cloth therore the fire to drain the grease, and he cooked more evemly and made more appetizing y. slicing as near the same size as possible.
POTATO SNOW - Boil
 heated colander into a deep dish, that it may fall
lightily and in good shape. Irut in the oven a few

## Special Offer to Subscribers

## We would again call the attention of the reat-

 other our Home Magazine, in common with reat he tre oflers matle within. hass number included in their subseription for ${ }^{1: 902}$ What better Christmass gift could our reaters What hetere Christ mans gitt could our reaters thinking of doing so. Why not sum?


oor hopelases, dopented

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## Travelling Noteś.

 titucle has made them, both by position and a Leo, by drooping jaw, watery eye, flaccid paw and ragged mane, is a very picture of despair. QueenLeona is trying to comfort him. as a pood wif should, although her lot is as hard as his, and menting as his own. But to comfort is the prebest She interpose and Leona can but do her tween the bowed head of her lord and the hard boards of the partition which confines them both alike. She bends her ear to his oft-repeated comlation she can. 13y extended tail, by firm grip the floor with her big forefront paw, "she shows
that there is fight in her yet. and that if she can only arouse his kingship out of his condition of hopeless despair, all is not lost. They may never
roam forest or jungle again. they may nevermore enioy the bliss of perfect liberty, but between them they may aste revenge, and revenge venture to predict that these monarchs of th

## Different Ways of Cooking Potatoes.

MASHEI POTATOES,-Boil in salted water,
and strain. Then dry, mash quickly with a wire masher until light and free from all lumps :- add a piece of butter the size of a walnut, a quarter cup cream, a teaspoonful of salt, and a dash of pap-
fragment of

Canadian readers, I think I had better take il chinks later on as room in the pages may often As you will see, I dite this (on the 8 th No vermber) from Tunbridge Wells, where I um soltled
down for the winter with the very deans down for the winter with the very dearest,
brightest, cleverest old lady in the world, atiout brightest, cleverest old lady in the world, athout
whom I must just tell you a little, for she is a remarkable chatacter, the only daughter oi a clergyman who, besides this daughter, had twelve
sons (consequently she had twelve brother sons (consequently she had twelve brothers),
many of them scattered all over the world in Australia, India, New Zealand, the United S.i.ues England, and Canada, one of them being nom less Chan the late worthy and noble founder of the
${ }^{-}$Farmer's Advocate," and we all thoroughly he did his part in trying to mow how word better for his having lived in it.
This dear old invalid, unable to stand on her feet, with limeds and limbs drawn up with rheumatism, and suf
fering with a patience beyond all praise, yet has Tering with a patience beyond all praise, yet has
a mind active as ever, and finds scope for much philanthropic and missionary work. Besides what she does for suffering humanity in general, she
keeps in touch with herself, and with one another the parted and scattered members of a once large family, thus forming a link of love and sympathy
which is of itself a benediction, for who can measure the influence of a good mother, sister,
or even aunt? I hope the power may be granted to me to be of some comfort and help to this dear old friend and relative during the wint this dear old friend and relative during the winter we
expect, God willing, to spend together at Tun-
bridge Wells.lat
 Pre people the love and loya latter were present on the occasion of this public manifestation of joy at the safe return of the
son and daughter of the beloved Sovereisns of the Realm. Every incident of this most unicue
fourney of 50,000 miles during an eight months, had miles, during an atosence of
Fngland with the most had realized how it had drawn interth from thes seas spontaneous and unbounded expressions of the Crown which not even England's most bitter Loe or most jealous rival could gainsay. Could
one wonder at this outburst of national their home-coming ! outburst of national judeed, I would not for Worlds have missed the sight. It was well worth
the fatigue and strain of standing for hour tiptoe, with barely room to breathe, as the
throng swayed to and fro, roice, the vast multitude took up the shout of
welco " Home. Sweet Home." The papers will have told you of the mag. nificent decorations along the you of the mag tance of three miles, garlands of flowers, making loyal carringes into a veritable bower for the foung. Inchess wearing her Canadian Sables. hory of one of the little children of the Duchess
hiving been on so imperatively insistent to bo
taiting taken to my mummy that the King laugh-
ingly decided she thould have her way, and so at
 Erame vin whe sought one p dent a little later on. "As the shining cavalcade number of dear retations a goody bled, and very happy times we had,
making little excursions here and there, some of us crossing occassion-
ally to Boulogne. The days were fine mer has been exceptionally fine in
Fngland. But it is quite time I be my last trip of importance for
some time to come. You had mine. You Saw the Duke and Duch-
ess of Cornwall and York in C like the pussy cat in the chiheren's see the Queen," -and not the Quecen
only, but the King, and all the big, who took part in one w, the
most wonderful pageants. (with the xception of that of the Jublee of
Queen Victoria) which England has
ver seen. It was a pareant, too hich was full of meaning-a pascent

## 苞 <br> came

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with
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came by, the ecstatic cry of 'Oh ! daddy, frem
a very small damsel perched upon the shoulders a very small damsel perched upon the shoulcets ing hand she clutched, caught the attention of the crowd. In the midst of the roar of checrs.
with distant pulsations of God Save the King stirring the air, the little maiden kept up her thrilling tribute of two words, Oh! daddy.
The dancing white plumes, the hoof-beats, the The dancing whe shining swords, were almost too much for the little damsel on her father's shoulder. Pointing with her tiny finger at the wonderiul revelation of splendor, the ecstatic cry continued,
growing in volume and emotion-'Oh! dally, daddy! daddy!
There were at Ieast two thoroughly happy cliildren in London that Saturday afternoon. One
was His Royal Highness Prince Edward of York, was His Royal Highness Prince Edward of York,
who drove through the cheering crowds with his "dao rove and the other was the little subject who greeted the home-coming pageant with an eloquence no poet laureate could hope to emulate. Just a word about the transformation scene
which followed so closely upon that vision of which followed so clusely upon that vision of
splendor. No one who has not actually been in a splendor. No one who has not actualy been in a
London fog could possibly imagine what it is like, and the fog of this early November, which fell like an enshrouding curtain or pall over the metrepolis, suspassed limb, and in many plares
endangering life and endangering death and disaster. But besides its
causing, it had its comic side too. Picture your
tragic, it tragic, it had its comic side too. Picture your
correspondent, if you can, so utterly helpless as correspondent, if and her silver threepenny-bit to a to thankfully pay her sive of a brigade to whom
sturdy young urchin, one her across a street, the opposite side of which was wholly invisible to her, a veritable terra incognita. To stand by a lamp-post till aid came was ati that was possible a belated and he-
fogged single gentlewoman. On one side she fogged single gentlewoman. On one side she
would hear a voice raised in anger during the un-

Some Things to be Thankful For. realization of the duties they entail. It is no We do not all keep written records of day-tonat happenings. Even good business people may actions. The owner of a ranch does not roundup his cattle every week, nor does the best o housekepers invariably weigh out her needful puddiner into end of the the por ore orore the tolerably fair general estimate of his rains or losses. One comprehensive hackward riance suf fices for this and that is what we purpose doing this morning. Well, we have just kept Thanks giving Day, which means considerably more to us than the orthodox turkey and cranberry sauce Let us count up some of our blessings for which

Perhaps no year in the old century has been more eventiul than has this first year of the new one, upon the last month of which we are now entering, not only for its historical significance, collectively but for the impress it must lonve upon the hearths and homes of our land. There have been growth and progress along many lines which, directly or indirectly, must affect the individual lives of ourselves and children. Our
whole perspective has changed. whole perspective has changed, fose growing conditions have opened the eyes of all but those
who were wilfully blind, and we know "there are none so blind as those who won't see." The relations betwean cause and effect are surely clearer
to all our minds to-day than they were even to all our minds to-day than they were even
few years ago, and even the most unlearned can not pretend to believe that things just "happen," when by applying a little of the common seise and intelligence bestowed upon us by the Al
mighty, we ourselves may often avert catas
she was born a girl she will know by instinct what is expected of her. Schools of housewifery are being opened in many centers, and a knowledge of the value of foods is considered essential be committed, whilist the use of the needle is no longer a lost art. It is true that perhaps nine out of ten of our young girls marry and become it may be otherwise and that they may have to carve out an independence for themselves, so another amongst the good things which have come to us during the last two or three decades is the recognition of this and the opening up of
careers which, intelligently entered upon and industriously pursued, place the young business woman beyond the reach of want or the humiliation of dependence upon others. Then, too,
thank God, there is also some awakening upon thank God, there is also some awakening upon
the part of parents os to their responsibility in the part of parents as to their responsibility in
regard to their children. They are invited earnestly and cordially to co-operate with the eachers so that what is the best in their litule ones may be brought out and cultivated, though much remains to be done on these lines. Mutual smooth many a difficulty from the path of Looth, and would bear fruit a hundredfold in the siterlife of the child. This both are beginning to see.
So let us hope that during the coming year there will be more and more a realization, on the part of the parents, of their solemn obligations towards the children whom God has given them If so, they would let nothing in their conduct or habits tend to weaken the confidence and espect whicl, so long as it is deserved, is assuredly their due, and thus there would be no risk of the keen wits of an observant child detecting in the
home a contradiction of the moral maxims or me a contractiction of

the souris. scene on the farm of mr. A. h. mgaffin, hartney, manitoba
mpected colliding of two passers-by. "I Look trophe which is threatening us. There are still out !", it said. . Well ain't I a-looking out !", some Slecpy Hollows, even in progressive Canada, Would be the reply; "but what's the good o whose peope not realizing " that there is more the mist would come another muffled conversa-tion-" Where does this street lead to?" " "Well, into the river if you go on fur enough. I knows, ior I was iust pulled out of it. fect with a ring of metal upon the pavement, to the additional horror of the foot passengers thereon. The only people who enjoy a Lonto ins are the pickpockets, and to them it was a
camival of rejoicing. In that four days' ing one could realize the full meaning of the expression, daralize the full meaning of the expression

Worth While
casy enough to be pleasant
Shite Hows along like a song:
the man worth while is the one who will smule evervthing goes dead wrong.
test of the heart is trouble. We test of the heart is trouble
it always comes with the years,
the life that is worth the honor of earth
the simile that comes through tears. easy enough to he prudent
nothing tempts yout to tray:
without or within no voice of $\sin$ without or within no voice of sin on int that ve vive virthe the honor of tc one that resists desire.

 2vew ${ }^{2}$
relighous teachings of his teacher at school dur-
ing the week or on the Sabbath day. It has toen ing the week or on the Sabbath day. It has teen
said, with truth, that "with ninety-nine boys said, with truth, that " with ninety-nine boys
out of a hundred it is the pride of their lives to imitate their fathers." see, then, how this acts and reacts. . The average boy gauges his treatment of his sisters by the manner in which the fathels his sisters he will be very apt to duplicate in that which he will by-and-bye adopt towards his wife." Perhaps for the girls, even more than for the boys, the educational revia of the end Cof the last century has been he greation has given the girl her oppority. Co-education has given the girl her opportunity. work and judged by the same standard, the test of erpual capacity must be a fair one. The future
will how how much fairer to both is this newer will show how much fairer to both is this newer
system. The girl in the school rises to what is expecterl of her, knowing that the prize can be hers if she prove herself worthy of st, and the boy, once for all tanght that his greater physical
strength is by no means a sign of mental supestrength is by no means by which he can froriority, but rather a gift by which he can riro-
tect those weaker than himself, is less likely to turn out a bully at school or a domestic tyrant at home when his school days are over.
Well these are only some of the things for Well, these are only some of the things for Which we have cause to rejoice, but they are
cnough to give us hope and courage for the
future Iurtize a shomer, a citiven, carrvincis a very wo






## Bibby's Cream Equivalent

IT is plain that the best article for any purpose is the one which will eventually take the premier place in popularity and will hold its place until a still better article is produced. This is what "Cream Equivalent" is doing. For supplementing the supply of whole milk, or enriching skim or separated milk, or if necessary rearing calves without any milk whatever, we believe "Cream Equivalent" is unequalled, and its unrivalled popularity is proof that our opinion is correct.

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3rd. Every essay to be signed by the person composing and writing it, stating age last birthday.

4th. The competition closes DE(EMBBER 14th, 1901. Essays to
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December 5, 190
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 ase mention farmer's advocate

THE FARMER'S ADVOÇATE

GOSSIP

## work of De Laval Machines <br> AT THE BUFFALO EXPOSITION.

THE award of the Gold Medal to the He Laval Cream Separators (the highest by the magnificent work of the De Laval machine used in the Model Dairy of the Exposition, which made a record in practicat work under ordinary roved "Alpha-Disc" De Laval machine.

PAN-AMERICAN EXPOSITION, 1901 The De Laval Separator Co. Cow York: Buffalo, N. Y., Oct. 21st, 1901. Gentlemen, - The work of the De Laval Centrifugal Cream Sepa ator, Dary Tur the Model Dairy at the Pan-A merican Exposition Buffalo, $\mathrm{N} . \mathbf{Y}^{2}$., brought
First.-The machine has been run from August 9th,
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no special attention glven it hy any expert of the Company.
 hows a los of . 0161 of one per cent. of butter-fat.
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而
reduced to make a skimming record.
Fourth. -Theamount of power used was very small.
Fourth. The amount of power for it in every particular
JNO. A. ENNIS, $\begin{gathered}\text { Buttermaker. } \\ \text { EDWARD VAN } \\ \text { AlStyNE, } \\ \text { Superintenden }\end{gathered}$


Other Great Expositlons. $\begin{aligned} & \text { The supremacy of the Io Laval machines at Buffalo is } \\ & \text { a continuation of their triumphant record at all previ }\end{aligned}$ as great expositions ere the jury of a wards, and were the only sepa
 received the Grand Prizes. or highestawards. At Onaha, in
Gold Medal, and again at Paris, in 1900), the Grand 1'rize, or highest nwar
THE DELAVAL SEPARATOR CO
$\qquad$
Alex. Galbraith, of Janesville, Wisconsin, offers for sale

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| toock tor sale. |
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fion of keeping such food siress until
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## gossip.



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nend her took to hooe reanirne the best.
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Exhibition for the best exhibit of cutule Vo
 cup for this prize, our herd scoring considel
ably higher than any other. Kinaly mak Correction and oblige.

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Cate.,


 Mam Madrnner 2nd of the scot th Syme
damily, was by the imported Cruick shank. Wull Thice Consuli a Toront
chanpion The damm oi Diamo Quee


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 tion, and all Pulmonary and Wastlng Diseases.

Do you cough
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Are your lungs delicicate
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The you ple
re you pale and th
Do you lack stamina
These symptoms are proof that you have
in your body the seeds of the most dangerous malay that has ever devastated the earthConsumption, the bane of those who have

 the discoveries of that man whose name has
been given to this new system of troatment Now known to be preventable and ourable ${ }^{5}$ Tholio new yin ant proctish trat hint taidinges of consumption and or all diseases which can
be traced back to weakk lungs ass a foundution. It it not a drug systom, but a syatom
of germ diestruetion and boay building. <br> \section*{-} <br> \section*{-}

## Shorthorn Cattle

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THE FARMER'S ADVOCATE

Auction Sale. $T$ Herb will bo ofiered tor sala by public anction Wednesday, 11th Dec., '01 | During the |
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| suok tarm, |

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ore we have reduced the price below cost fo 10 days only. Write your name and add ress,
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GOSSIP.
 Wm. Howe. North Bruce, Ont., breed-
 young stock I ovfer for sale are as goon
as any 1 have yot had. The youns



 and Uowra of Firview, $\$ 830$, The bull
Golden Knight, brought $\$ 525$.
 Nributed by six breeders, brought
tryerge




 De Kol, seven years old.
A NOTED ENGLISH SHORTHORN Ratcheugh Farm, Alnwick, Northum-
berland, England, is the home of Mr. Wil



 The herd numbers about 70 head, from
twent to
twenty-five call
cive being
 and barring ane slight faut in the horn
in being atrint weak the might be con it being a trife weak, he might be con
idered nearly perfect in character an
in siderea neariy perfect in character and
ontour being beef to the very hock
and thickly-llashed throughout. He is a
aood roan color has a good-handing good roan color, has a good-handling proving an excellent stock-getter.
ealves are excellent in color, form,
and quality, and Mr. Bell has used him very
qargely in his herd again this year. Mr eifer to Mr. Andrew Crystal of Mar Abbotsford.' In 1900 this bull was only owing week he defeated the winer fol owing week he defeated the winner at
six of the leading shows, including the
Roval and Yorkshire, and this year he six of and Yorkshire, and this year he
Royal and
was 1st at the Shropshire, 1st at the aster and Northumberland and 3rd at the Highland, 1st at Durham, and the
champion cup and also 1 st at the York-
Com shire. In doing thess shows he travel-
ed nearly two thousand miles, along
vith his yearling brother, Barons ride, which is considered to have a
etter horn than his older brother, and
any judges consider he will make the many judgas consider he will make the
better bula of the twoe being a great,
level, straight bull, of a rich reaan color. Straight Mood judges and consider the
above two of the best bulls of their age
ate in England. Baron's Pride was 1st a
Shrewsbury, 3rd at the Royal, 1st at
Doncster and Doncaster and Northumberrand (here
beatimy the Roval winner and by the
same judge), 4tha at the Highland Agriham and, Yorkshire. Buttercup's Prid nother great, straight, lengthy bul n A1 stock bull. He has a handsom good and horn and a good lookout, Butreedom, ar Cruickshank bull, out o
Buterup. The sire of the two first-
bulls. which are full hamed bulls, Whire are full brothrers,
is Baro Alnwick. He was sold wher
three vears old for
 cow, by Abbotsford 6658 , Mr. Bell
gave 100 guineas for this dam when she
whe six prizes for the last four years hat all won
leading shows. Along with her two
sons, she has won the wity Ons, she has won the family hrize two
years runing at the Yorkshire Show,
which is considered the socond In England. Two other very promising
young bulls about one year old were seen, In the first field visited were
twelve cows and thir teen calves, a num-
hoive ford. In the next lot were about fiit Wh in the stable being were about milked, two ex-
tra mood cows among them.
 a mber. In another field were about
a

 me. Mr. Bell, like many of the
Heading breeders in England and
alld, is a bachelor, and many of lid is a bachelor, and many of
liave their homes furnished luxu-
He is also very particular about He is also very particular a arout
ver and kitchem garden which art
credit to him, as aiso are


Famous Doctor Urges Pyramid Plie Cure.

## 




BELLEVUE SHORTHORNS,

EDWIN BATTYE



 GREENGROVE HERD OF SHORTHORNS. This herd was founded over 18 years ato, byy
John Flotecher, and contains such Sootch-bred
fihe





 90 HEAD $\underset{ }{\text { Hight.quality }}$ Earisy Herofords Young balls,
cows, cows,
heilfers.
 H. D. SMITH, COMPTON. QUE. F AR M ERS!

## Sheep Dip

##   

WV. WV. stepinem,
TwO YOUNG ROAN Shorthorn bulls
 raml, one two hear rall. DUTTON P. O.. ONT
R. U. HINE. shorth for SALE
 Newcasile Herd Shorthorns and Tamworths


 Barcay's Patent Attachment por thi curr or
and kicking horses.
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