## PAGES

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## Makes Each Animal Worth 25 per cent. Over Its Cost



At a cost of only two-third of a cent
day per Animal, Royal Purple Stock ent. moro.
ent. more.
You never heard
You never heard of any other. Specifc.
or " "tocock Food,", doling likewise. Royal Purple will permanently cure the
Bota. Colic, Worms, Skin Diseases and Soblity, and restore run-down Antmals It will increase the millk-yileld three to
 Acher than ever before.
Mr. ANDREW WEGRICH, of Wainfett,

 Le 16th I weighed her milk as 17
ound. I noticed a change arter 5 or
ders, as there was an extran weight or
 the milk, and she eqve 22 pounds
an giving an order for 5 boxes, as miding an order for 5 boxes, as
consider it the hest I have ever used.' "Stock Food" will not do this. Bocause Chan a mixture of the very morng or leas mich
cou, yourselt, grow on your won farm It is not more food your Animals need. They not more food your Animals ned.
Thed must have something to help their sodieg get all tho nouring to help tho their
tood they are getting. So thet they the Thaten, and stay tat, all the year 'round. to oure dood soase hing to to prevent disease,
best of health, and the the tue. them in the

Not a Stock Food
Royal Purple is wot a "Stock Food,"
nor a "medicinn
It does itre. It is a Conditioner.
It does not conitain Gratn, nor farm,
products.
Nor
or any other inimans inveredient.
Purple doe
Poyal


Royal Purple makes maturally - thin $\begin{gathered}\text { specitic. } \\ \text { Animals tat and heavy. } \\ \text { And it buidss } \\ \text { stables. }\end{gathered}$ ap the heath and restores the former
plumpness and vigor of run-down stock in tlitle or no time The very beat to to wee this
ditioner is Now. It digests the hard lood
properly and prevents the animals get-
ting indigcestion or losing flesh.

## 50 per cent. Cheaper

 One 50 cent Package or RoyalWill lorple last one Animal
70 figures a little over two-thirds of a cent
 Most "Stock Foods" in 50 -cent Packages
trren
that
50
days, and are given
But Royal Purple Specific to given onlySnce a day, and lasts 50 per cent. longer.
on
(A $\$ 1.50$ Pall. contaninin(A A 81.50 Pall. contating four times
the amount of the 50 cont Package, lasta
Doyal Puipple STOCK AND POULTRY SPECIFICS

This is an honest teast, isn't it ? Wo ask you to make it because wo know that Royal Purple is the best Condititoner
on the market on the market.
If you are not antisfed, arter testing
It, you don't lose anything, do you?
Free Book on Diseases

Aak your dealer for our 32 -pago Froo This valuable eltile Book also containg
many cooking rectpes, as well as full many cooking rectipes, as well as and
details about Royal Purple Stook , and Poultry Specifica.
It is worth many, many dollare to every owner of stock or Poultry. Yot the home of every stock and Poultry owner in Canàda.
It glves the eymptome of all Animal
and Proultry dibeases and Poultry dieaases, and tolle the beot
druge to be ueed tin cases of emergency. If your dealar cannot give you this book, writte us, and we.ll promptly mail
it to you, Free, postpild. If your dealer cannot supply you
 Wry Speciffes, we will supply you
difrect, oxpross prepaid, upon ro-
ceipt ${ }_{t}^{\text {ceipt }} 11.50$ a Pail for either Poul

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Wo have hundreds of husting men eara-
 If we haven't a man in your diatrict handlling our goods, write us at once. Everybody knows about Royal I'urple Stock and Poultry Speoclica.
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farmer's son, with horse and rig, for faul Yarmer's bon, with horse and rly, for fall
and winter months.
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# The Farmer's Ndvocate <br> Persevere and Succeed.' and Fome Mragazine 

## EDITORIAL.

$\qquad$ If " Whip " can handle colts as well as he
$\qquad$ ertson, with his usual Scottish-Canadian sagacity, foreshadows that Eastern Canada will always be the dominant partner in the Iominion concern.

The disastrous floods at Paris, France, were at tributed primarily to the stripping of forests from mountain slopes and plains, thus precipitating an unusual rainfall as a sudden torrent through the low-banked rivers. Another warning to Canada.

When a local grocer in a Canadian city uses half a newspaper page to exploit the sale of a
frosh lot of oranges, the suggestion naturally arises that the trade in apples, which come to their finest perfection in our own country, would
" I told you so," says Mr. Neighen, and he has good right to say so. His advice to Cana dian farmers last fall, not to rush their wheat to hundreds of thousands, perhaps millions, of dollars Canadian producers
" If a man finds a bee-tree and takes the honey Ne do not call him an apiarist. Why then," asks
 be a dairyman, one must have a dairy tempera-
nent.," he addss nent,", he adds, ., and no dairyman should be con-
tent with less than 6 ,.ovo pounds of milk a year ere cov,",

Over ive million plants of ragwort the plant Which cavses Pivetou catule divease) destroyed by
school criluren worling for smenon chirden worfing Tor prizes, is an achieve
ment standing to the credit of the East N. S ., Women's Council. on the purits is probubly more iumportant than the economic lenentit trout the destruction oo the plants.
advantage from the weighing of each cows milk nisht and morning is emphasized by an in-
ident mentiond
 discoverval. On looling over the records one morn heom miliked yo a new hand wee cown in their
 thase forrent That man never milked those four
sons a arain

When the Voderal and Irovincial Governments
 pared with those on the land, which, therectore that ate tirodice iond fast enough for the mouth


IPF ONE

Audit the Banks.
Banking is the only great business in Canada we can think of that is not properly audited. To
be sure, the local branches of each bank are inspected by a salaried officer, often a man intimate he books at the head office the institution, but ertainly at the head office are not, as a rule ecrainly not by law, subject to any adequate aud an ordinary commercial firm would employ before submitting its annual statement to the directors consideration. This lack of independent inspec son at the head office is the weak spot of a stahle and most adaptable in the world. It explains why, since the adoption of inspection, in 1863, the United States, with a banking system much inferior to ours in many respects, has had only five and a half per cent. of failures, while in Canada during the seventeen years, 1893 to 1909 Banks are wrecked either by or as a result dishonesty or mismanagement in the head office, that the beginninge of conversant, whether due to peculation or bad juggment, could be detected by a
competent inspector at the head office. The trouble leading to the downfall of the Ontario Bank, fo instance. could have been nipped in the bud had he directors been aware of what was going on but the directors, or most of them, being othertaking their responsibilities about as seriously as directors generally do, allowed misappropriation of funds to be practiced and the true condition of here was concealed, blissfully unconscious that crash, mitigated only by the voluntary mutual support rendered by the larger banks. Governsnent inspection, as they have it in the United States, or the system of independent audit obtaining in areat eritaln and other countries would have exposed the beginnings of evil, and
averted a catastrophe.
The decennial revision of the Bank Act is to be made during the present session of Parliament, and the movement for Government or independent
inspertion of banks, which has been discussed in anada since 1875, and has been recently gathering strength since the notorious failures of the Ontario and Sovereign 13anks, has found an ef-
fective ochampion, its first one among Canadian bankers, in H. C. McLeod, who has recently resigned the management of the Bank of Nova in its firth edition, setting forth the arguments, fro and con. In it he disposes of certain objecthe argument that bank inspertion, to be thorough, would need to comprehe replies: "In our investigation of the causes of frilure of banks operating branches, we have not found one instance in which failure was due lo bud management at the branches. . We have no record of fraudulent failure in which the vicious
conditions existing could not have been readily delected by an expert at the head olfice of the bank." not detect all forms of possible loss is deservedly swept aside as no valid argument against inspecion, as is also the assertion that customers know vestors and savings depositors do not know, and are not capable of judging, or in a position to patronage. In this connection, Mr. Mcleod points
otes the first claim on its assets the Government's claims come next; the savings depositor alls into the last class, that of the ordinary and the Government. and the Governmen
doout the only argument against Government or independent inspection of our banks is that it might lull patrons into a sense of unwarranted seThis, however, if carried to its logical suctusion, would oppose any kind of Government
sumything. The layman's view will he that half a loaf is better than no bread, and hat external inspection would have a wholesome nd much-needed effect on the head officers of our reat fiducinry institutions.
(iood management has nothing to fear from outs:de inspection, and, while honest differences of pinion must be recognized, the public will be disosed to suspect the standing and practice of inspection. Is it not strange that, although the pamphlet referred to above has had a circulation pproaching 60,000, indicating a widespread inerest in the question, we see little mention of it in the newspapers, or even in publications devoted specially to finance?
"A Year with a Dairy Herd
That the dairy business is one which develops usiness dairy business is one which develops faculties. was abundantly borne out by the quality of the essays received on the subject, "A Year with a Dairy Herd." Any one of them was worthy of a prize if there had been none better, and as there is nothing more instructive than an account of actual experience, such as given in each these essays, all, or at least most of them will be published. A well-written article by J. N.
Chambers, Oxford Co., Ont., unfortunately came too late to be considered in the disposition of hwards.
In the contribution by S. A. Freeman, Oxford Co.. Ont., which was awarded first prize, will be the mine simulate olk darymen to enort the line of increased milk production. To bring and keep a herd of seventy cows up to the high as Mr. Freeman has done is a feat in dairying that should certainly give hope to those who are trying for something of the kind themselves. The fact that the individual milk average has been increased in four years by 1,664 pounds, shows the possibilities of improvement in even an already excellent herd. It will be noticed that Mr. Freeman attributes his success mainly to abcurate edge of what his cows were doing
Colpitts, Albert Co N. B. bet, Ont., and J. H second prize is divided, both have instructive the periences to relate. Mr. Hargrave's paper is quite a model for a clear and easily-understood record of a year's work. It was decidedly the bestcomposed and best-written essay received. The returns per cow are not large, partly because of the low price received for butter, but also because milking only a some were evidently heifers, and milking only a part of the year. Improvement might possibly be made both in the class of cows pears to have been utilized but for a short time Mr. Colpitts gives an important a short time dairy practice in one sentence: ". We aim to fill our cows comfortably every day in the year, and do our best to make that filling as succulent and palatable as possible." He manages to feed turnips, which thrive especially well in the Maritime Provinces, without giving offense to any of the

THE TARMER'S ADVOCATE
and Home Magazine.
this leading agricultural journal in the DOMINION.

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john weld, manager

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THR FARMER'S ADVOCATE AND HOME MAGAZINE ill impartial and independent of all cliques or parties, handsomely practical, reliable and profitable ings. and furnishes the no
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st. CHANG OF ADDRESS.- Subariben id
We WE INVITR FAMMES



 ith this paper should be add resed
dividual coonected with the paper.

THE WIILIAMER'S ADVOCATE, or
London, Can
pitts beats the Ontario competitors in the amount he receives per cow, his returns for butter alone,
not counting in the value of skim milk, buttermilk etc., being over $\$ 80$ each-a great showing cer tainly. An average of 356 pounds of butter per cow in a year is a record to be proud of, and but that there was a skillful feeder attending them.

The Demand for Good Horses. The high prices ruling for heavy-draft horses at resent, and the prospect, amounting practically to a certainty, of a continuance of the active de-
mand for this class for years to come, at profitable prices, would appear to appeal to farmers generally to give attention to the raising of more
and better horses of that class. It is true that and better horses of that class. It is true that the demand is also uncommonly good, the marset prices for such being high, and likely to continue so. And those who have well-bred mares of that class, of proper quality and conformation, by breeding them to superior sires of their own class, may, with confidence, count on a continuance of description of mares, mated with heavy-draft sire s to cater to the market for low-priced stoc erior horse is quite as great as keeping a better horse is quite as great as for one of the class to heavy-draft sires may, and probably will produce useful, general-purpose horses, described
purpose horses were quoted at $\$ 140$ to $\$ 180$, and the time of Julius Cæasar. In any event, th serviceably sound horses at $\$ 40$ to $\$ 80$. breed liseage firmly and plainly fixed, and indericien drafters, 1,500 to $1,-00$ pounds, were quoted at the less aco $\$ 225$ to $\$ 300$; light draiters, 1,300 to 1,400 looked after by the Shire Horse Society, bred is pounds $\$ 175$ to $\$ 200$. small or inferior at $\$ 50$ to $\$ 75$; choice saddle or carriage, $\$ 300$ to $\$ 500$ In our Toronto report of last week, drafters were quoted at $\$ 180$ to $\$ 220$. expressers and wagon horses at $\$ 175$ to $\$ 200$, and drivers $\$ 100$ to $\$ 200$. The same week, Montreal reported heavy drafters of 1,500 to 1,700 pounds as selling
at $\$ 225$ to $\$ 300$ each; light draft, 1,400 to 1,500 pounds, $\$ 180$ to $\$ 240$ each; and small horses of 1,000 to 1,100 pounds, $\$ 100$ to $\$ 150$ each: choice saddle and carriage animals, $\$ 350$ $10 \$ 500$ each, but only select horses of this latter Lecturers at the wister
Lecturers at the late Winter Fair, at Ottawa heavy drafters as high as $\$ 800$ to $\$ 1,000$ and could be had. These of course are extreme fig ures, which could not reasonably be expected as an averape, but there is a wide margin between these values and the average price prevailing for good heavy-drafters, and there is ample encouragement in current market prices, and in the outlook or the coming years, for farmers to breed and raise horses as a commercial undertaking, apart rom the more speculative field of pedigree stockbreeding, where prices are more or less influenced f certain individuree breeding and super-excellence f certain individuals fuok organter by the Shire Horse Society, a powe auction sale, in addition to publishing show and most valuable, interesting and informative of the contained the 1908 3,964 mares pecirgrees of 1,119 stallions ani In 1907, 390 Shires were exported to useful kind States, 117 figures of the yen previous; 1908 and 1909 have each increasea
over these figures. The statistics given, with a general average at the society's auction London, of over $\$ 530$ for 120 horses of various the breed At the sale referred growing demand for the highest price paid for a stallion, and $\$ 1,050$

The soundness-a very important question with the Society's of the breed is best demonstrated by fore whom all exhibits must pass before being be mitce to be shown. Out of 313 horses examing defective respiration (wrong in the wind) 10 for bones, 6 ; spavin, 4 ; cataract, 2 ; shive ; sido cares cens ringbone, 1 ; lameness, 1 . of 140 stallions unequalled by other draft breeds unleas id record, anfolk. It will be noted, also, the rigid exclusion reed tendency to hereditary troubles. Thus, the from which considered a saie and sound sourco mares of the country, for farm work or city paie The leading sires of winners at the breed show winners in 1907 Forest King (18867). with 17 Jameson II. (17972), with 14 in 1907 Dunsmory 1906: Rindsall Menestrel 3rd (19337), with 18 this Ereat trio are : Markeaton Rows. Following 15525). Menestrel : Markeaton Roval Harold Harold ( 2703 leading strains of hlood are: The Harold (3703), and Lincolnshire I.ad II. (1365).
of 132 winners, all but three traced hack in div
rect male line to six common progenitors.
ronage and support of tromage and support of
inany wealthy and titled Englishmen, the requiro ments of the big requities chester, Birmingham, ani andif, fortage horses for dray with attention shown by
tenant-farmers bept the home markets fep 10
heires very strong, and has thus hindered exporta.
tion. rs who Many tenant-farmhe breeding studs of the falthy landowners hape ncomes years made tidd not hear, quite so much of their operations as we do of their Shorthorn-breeding His Majesty the King iriend of the breed, and has sent many good onoes from ales, as to the shows and
hild, Lord Roths huke of Beaufort, Ellosmerir, thel ere Gil Bey, Loufort, Sir Wal Egerton
Lf Tatton, the late Philo Che late Philo John T.), and many others. The writer well remembers the English Cart Horse, or, in everyday language There are certain essentials which served when recommending a breed must be ob- Elsenham Cup for Lord chlesmere, although run purpose, especially when it is sought to certress The two horses mentioned sold for $\$ 10,000$ and
the characteristics of that breed or
class of class of equine stock termed ""grade." One or point My int interest in the breed was not lessened by that may not be overlooked is the age and history Tornotable winnings, as a sire and individual, at its prepoed.ency in on ther words, its ability to trans- from the other drait breeds, of the imported horse,
 Thed, little, or no breeding.
Thire is not a new breed of horses; authori- Irenchere them more mirmly in myy regard, so that
I consider the the shire at the present time to be the

## $\xlongequal[\text { The Shive Horse. }]{\text { HORSES. }}$ <br> $\frac{\text { HORSES. }}{\text { The Shire Horse. }}$ <br> $\frac{\text { HORSES. }}{\text { The Shire Horse. }}$ <br> $\frac{\text { HORSES. }}{\text { The Shire Hoorse. }}$ <br> $\frac{\text { HORSES. }}{\text { The Shire Hoorse. }}$

Leek Advance.

old form.


THE FARMER'S ADVOCATE.
necessary preliminary education, and had driv her and her foal in from pasture early in October and commenced to wean the foal and handle the are. She hanow quite safe, and handy in single ead in a tandem in the spring. Her foal is no vell trained to halter, will lead well, stand tied allow me or my man to groom her, clean out and
pare her feet, etc. She is also so well used to bridle that she will eat hay and be quite contented in her loose box stall with a bit in her mouth,
and I will soon put harness on her, and get her accustomed to that.
So you see, sir, I am not quite out of the busithat, when your correspondent claims that my in ability to judge the essays is due to want of
perience, he is mistaken.

## LIVE STOCK.

International Tuberculosis Com mission's Fipst Session
has recognized for elme time thatical Association tuberculosis-control work among domestic animals
was a big and very difficult problem was a big and very difficult problem of universa
interest and fundamental importance, and on that must be met sooner or later. This Association clearly recognized that certain
great interests are concerned in any dealing with great interests are concerned in any dealing with
this problem. Fundamentally, these are : First, general society interested in this question as a public-health measure; second, the live-stock producer, especially interested in the financial ques
tions of profit and loss-the producer of animal foods for human beings; and, third, there was
the manufacturer of these animal foods, the packthe manufacturer of these animal foods, the pack
er; and, fourth, the veterinary profession, involved as sanitarians and practitioners, intimate ly related on one hand to the producer, and on the other hand to the consumer.
With these considera
With these considerations in view, the American Veterinary Medical Association made provision at
its last session for the creation of an International Tuberculosis Commission, which should fittingly
represent all these great interests. The essential represent all these great interests. The essential
duty of this commission was to study thoroughly and report upon the general problems of control work, rather than upon technical research probThe following gentlemen were selected to repre W. D. Hoard, of Wisconsin, a practical dairyman breeder, farmer, and editor of Hoard's Dairyman Dr. John R. Mohler, Chief of the Pathological Di
vision of the Federal Bureau of Animal Industry Dr. V. A. Moore, Professor of Pathology, and Dean of the Veterinary College at Cornell Univer-
sity, New York ; Dr. M. P. Ravenel, Professor of Bacteriology, University of Wisconsin, and member of the Wisconsin State Livestock Sanitary Board; Dr. M. H. Reynolds, Professor of Veterinary Medi-
cine. University of Minnesota, member and or ganizer of the Minnesota State Live-stock Sanitary Board; and Ir. E. (C. Schroeder, Superintendent of the Federal Bureau of Animal Industry Experi-
The member

The members selected to represent the Dominion of Canada, were : Hon. W. C. Edwards, Ottawa, one
of Canada's most famous breeders of Shorthorns ; J. of Canada's most famous breeders of Shorthorns; J.
W. Flavelle, of Toronto, a prominent Canadian W. Flavelle, of Toronto, a prominent Canadian
packer Dr. C. A. Hodgetts, Chief Health Officer
for the Province of Ontario ; Ir. J. G. Rutherord, Veterinary Iirector-Genetal and Live-stoc nipeg, Professor of Veterinary Medicine, University of Manitoba, and a prominent Canadian veterinarian.
original suggestion, and for pushing the for the along until it finally resulted in the creation of this commission, belongs especially to Dr. Ruther-
ford, of Canada. The first session of this Commission was held recently, at Buffalo, New York. Dr. J. G. Ruth-
erford was elected Chairman, and Dr. M. II. Reynolds, Secretary, of the Commission. M. I1. Rey liminary meeting. and should be devoted to a dis-
clission of organization, and plans formwork, with he members getting acquainted with each other It was soon nereed that the Commission could not wiscly. at this stage. adopt specific resolutions yemeral propositions were taken up for con-
its limitations, that we can and should accept the
tuberculin test under certain conditions, as a basis
of suitable control legislation. i. e., control work-was divided into four sections, and assigned to sub-committees as follows Education and Legislation-Dr. Reynolds (chair man, Governor Hoard, Dr. Kutherford. Sissem Dr. Ravenel. Location of Tuberculosis-Dr. Mohler (chairman), Mr. Flavelle, Dr. Hodgetts. Dis (chairman) One of the serious difficulties in
was recognized as the indifference of purchasers valuable breeding stock who want certain blood ines, and are willing to
order to get the breeding
It was recognized that marked change in public sentiment in most States and Provinces must be secured, and that this can be expected onty as
process of slow development.
In this informal discussion, the Commission found this informal discussion, the Commission doors admitting the sanitarian to the tubercula local stock-yards to the farm: (2) through clinical cases recognized in practice, inspection, or
otherwise (3) tuberculin testing for interstate and export traffic. not individual infection) were recognized : First the traffic in tuberculns catte, especially in pure skim milk.
In view of these various considerations, it was al of agreed that the Commission needs the assistance represent American packers. and the other should represent American State Health officers. newspaper phrase as the "stone village."
Ten or twelve years ago, the winter cally everyone has gone in
yone in

Rydesdale stallion, four years old; sire (Impal Cititizen.

## Vealing Calves on Little Milk

 the iactory to be made into cheese in summer and cream in winter for buttermaking, yet man ing at his place a thort time ago, the writer say a calf two weeks old, which was being fattened Ahc was certainly an excellent animal, being asthrifty and fat as any cali sucking its own mother would be. When seen, this calf was just finishing quart of new milk given alone, and afterwards a or three quarts of warm separator milk into which had been stirred three handfuls of low-grade flour. Mr. Bain gives only new milk for four or five day then changes to a quart night and morning. fol-
lowell cach time by a feed of skimm mik mixed
with uncooked. with uncooked, low-grade flour, a handifil ooly at
finst, the quantity being gradually increased, ac
cording cording to the size and appetite of the calf. at
 our or five weeks thee are fot for the butcher. -

From Beef to Dairying The Village of St. Mary's, in Perth County, in Built on the valley slopes of the north branch the River Thames, its appearance, as seenc trom never fails to call forth admiring remarks trom, beautysing traveller. But it has more thom of the to recommend it. It is the center of then out of doors. The soil of this section is folmond
inver invariably rich clay loam, though once in a while a gravelly field occurs. In the flats of the wiver which the rock is found inestone quarries, in to six inches thick, easily pried up with crom bars. This rock has been used so freely in the
building of St. Mary's that the town is known in within a radius of twenty miles from St. Marm
At that At that time there was scarcely a farmer who did winter, and some who made a specialty of the
husiness days, during the time when export farty. In those ing shipped in the spring, it was cattle were bo it. Marv's in one A representative of $:$ The That is all changed notion. visiting that neighborhood recently, was inform" by a resident who has been in the cattle-buying
business all his life, that at present Wo or three carloads of export cattle left the tomin re shipped still season. A few butcher cattle are shipped still, one or two being pickeder up at a
very sim

FEBRLIAR1 10. 1:111
roughage at noon. The intention is to sell these roughage at noon.
cattle in February. Still another style of handling beef cattle was
found at the farm of Thos. Woods, who at one time kept a $\begin{aligned} & \text { considerable number of pure-bred }\end{aligned}$ Shorthorns.
cows are scarcely dist hinguishaile fraco phorthorn
so massive and fleshy and well-colored are theys, so massive and fleshy and well-colored are they,
For his own exclusive use he keeps a pedigreed For his own exclusive use he keeps a pedigreed
bull, the one in use at present being a strong, deep-fleshed roan, which at the age of two years
and ten months weighs 1,800 pounds. Mr. Woods and ten months weighs 1,800 pounds. Mr. Woods
has hopes that this bull will almost equal in size has hopes that this bull wilh almost equal in size
a white bull that he previously owned, which
anen sold for beef, weighed 3,010 pounds. As a white bull for beef, weighed 3,010 pounds. A
when sold form
will be surmised, Mr. Woods is a liberal feeder will be surmised, Mr. Woods is a liberal feeder.
He believes in meal and turnips, but has no use He betieves in meal and turnips, but has
for silage. At present he has six calves, which
are being suckled by three cows Ior siage.
are being suckled by three cows. The calves come
at all seasons of the year, but some of them have at all seasons of the year, but some of them have
to put, up with skim milk for their rearing. There to put,up with number oi fine cattle being fattened are usually a number
in winter, but this season there were none, Mr.
Woods having sold off his stcers in the fall. Woods having sold ofr his steers in the fall. He
said he was ofered $\$ 5.25$ per cwt. for them, and said he was ofiered $\$ 5.2,5$ per cwt. .or them, und
thought best to let them go. They were under thought best to let them go. They were unded
three years of ago, and averaged about 1,400 pounds earh.
Such are
Such are some of the methods pursued in the
aron production of beef by the survivors in a branch of
farning which once was almost universally followed around .St. Mary's, but which has been
lobandoned to such an extent that the district is abandoner to such an extent that the district is
now almost as exclusiively devoted to dairying as
it formerly was to the production of beof cattle

The Profitable Type of Steer A feature of unusual interest in connection
with the slaughter test at the 0 . A. C. Stock with the slaughter test at the O. A. C. Stock
judging Class, last month, was a comparison the carcasses oi two steers, first judged alive. of these was a good smooth, white beast,
months old. Another, of the same age, w rather plain, low in the back, and heavy in the shoulders. There were three steers killed in all,
but the most interesting comparison lay between but the most interesting comparison lay between
the two mentioned. Contrary to expectations the plain bullock dressed out the better carcass. Not only was he a little fatter and thicker, giving
a percentage of 65 , as compared with the other's 63 per cent., but he possessed a fine quality lean meat, beautifully marbled.
While it would
While it would be most unwise to draw sweep-
ing conclusions from the results of a single test of this kind, since the case was probably excep-
tional, still such instances are calculated to raise the question whether undue emphasis has not been placed upon what might be called the fine points
of perfect beef type. The plain steer in this case, of perfect beef type. The plain steer in this case,
while apparently rather low in the back, showed
no signs no signs of that tendency when his carcass was
hung up. Then, as to the matter of shoulders, as Mr. Gosling. of Kansas City, pointed out, the with muscle underneath, whereas the very smooth
animals sometimes aniuals sometimes exhibit a certain spareness of
fleshing. Of course, too much emphasis must not
he be placed upon such an inference, for we know very well that many fine-boned, egg-shaped, quality
bullocks kill bullocks kill out the very finest of carcasses, and
cominand a distinct premium on the market cominand a distinct premium on the market.
The call is rather to inquire into the soundness of theories commonly held, and to examine whether
in following the butcher's idoal in following the butcher's idcal of a smooth, fine,
trim-bellied type, breeders of beef cattle may not have sacrificed feeding qualities, without securing a proportionate advantage in the quality and per-
centage of meat. The substantially good steer, with ample capacity for converting coarse farm
products into beef, bred from a dam that earned her own keep at the pail, is the most economical beast from the farmer's standpoint. Such
stock is calculated stock is calculated to supply our tables with good
roasts and steaks produced at a reasonable cost.

## THE FARM.

## Editor for Implements

Seeing your request for those who have an im
plenient shed plenient shed to write and give particulars, I will
do so. wo so. Our shed is 40 feet long, by $14 \frac{1}{2}$ feet wide,
with back posts 66 feet and front posts $7 \frac{2}{2}$ feet high
The front is The front is all open except a board under the
eaves, and there is no floor eaves, and there is no floor. The back sill is six
inches lower than the front one chine can be than the front one, so than any ma
of machinery in by hand. We back the mos of machinery in, in by hand. We back the mos
oiece, the then we wish any on Diece, the team is hitched right on to where it is
The building is divided into four sections with
post post at each section is into four sections, with Were required for the roof. This implement house
is located in the is located in one corner of the barnypard, ant house
unster
uhat it now for one season, I am fully convinced Only the cost was savel the first year. We pu
olly frst-lass material in the frame, though un
Dlaned, second-class lumber wac used for hoarding And the total cost, including work. was not ove
thirty-five or fort
I feel satisfied that

THE FARMER'S ADVOCATE
he will be more than satisfied with his machinery, and accommodation given, the kind and quality of
We store carts, warons, ment. litter used, the percentage of the liquid portion We store carts, wagons, mower, rake, potato-dig- liter used, the percentage of the liquid portion
ger, manure spreader saved, the management of the maand sleds, and thus, as can be seen, the propor nure during its accumulation, its after-treatment person might have each machine is very small. A the nature and condition of the soil to which it is situated that a lean-to might be more cheaply applied, the character of the crops grown, etc.
In
constructed (.) FRED FAWCFTT we must first understand that, although the strucWestmoreland Co., N. B. C. FRED FAWCETT. Lure of plants is composed of some ten or twelve to bring the plant to perfect maturity, yet it has Vatue of Different Kinds of Manure also been ascertained that, in practice, there are yard manure, is as to the value of a ton of barn- conly about three of these substances we require to ask than to answer. While travelling over large and potash, and are the only elements of which sections of our great West, going upon the farms of in artificial fertilizers, they are the imphed; hence, them, day after consider wide-awake, and seeing which have a commercial value, and only elements


Helen 21st (Imp.) =48704=.
Shorthorn cow, dam of the Toronto grand champion bull, 1909; the sire of the a Son, Columbus, Ont. manure over the hillside in some near-by deep ra- and liquid excrements of is composed of the solid it again, we are wont to exclaim, "/ Can it be gether with the straw used as bestic animals, to that upon those virgin soils manure is worthless, purpose of soaking up and fastening and for the and its presence a nuisance?" To the Britis
 for giving compensation to the outgoing tenant of the manure. a farm for unexhasted manures he has applied to
the soil, such action would certainly be an eye-
the soil, such action would certainly be an eye
opener.
But when, upon more searching invest gation, we find men who have experimented upon those fertile lands, and found that manure, proper
ly applied, will sometimes fore to maturity from five to nine davir wheat crops thus at times avert the dire disaster of a serious frost. we are led to realize that, after all, manur has a value, and its preservers are given their just
reward. What that value is depends considerations, amongst which are : The species o animal producing it, the stare of its development (whether growing, milking, or fattening), the foo


Any figures relating to the composition of animal excrements can be only approximate, because is many influences affect their composition that it excrement contains the undigested portion of the ood, while the liquids contain a large part of the of the digested mal of the animal body and a part fact, it will be soen that the more indigestible the food given, the greater will be the proportion of

[^0]greater will be the proportion of its constituents
appearing in the liquids voided. appearing in the liquids voided.
While there is, therefore, no definite or fixed relation between the percentage of liquid and solid
excrement in any class excrement in any class of animals, yet, a study o a large number of analyses will enable us to come to some general conclusions. The following figure
represent the average of a large number of Ameri
can analyses can analyses
PERCENTAGE COMPOSITION OF SOLID AND LIQUID EXCREMENTS.

| Name. |  | Nitrogen | Potach | Acid |
| :---: | :---: | :---: | :---: | :---: |
|  |  | \% | \% | \% |
| Cattle excrement, | solid | 29 | . 10 | 17 |
|  | liquid | . 58 | 49 | . 00 |
| Horse excrement, | solid | 44 | 35 | 17 |
|  | liquid | 1.55 | 1.50 | . 00 |
| Sheep excrement, | solid | . 55 | . 15 | .31 |
|  | liquid | 1.95 | 2.26 | . 01 |
| Swine excrement, | solid | . 60 | . 13 | . 41 |
|  | liquid | . 43 | . 83 | . 07 |

The table shows that the liquid excrement of all the animals mentioned, except swine, is richer
in nitrogen and potash than the solid excremént ; and, since nitrogen is by far the most expensive and, since nitrogen is by far the most expensive
of fertilizing elements, it follows that liquid excre-
ment, pound for poun $i t$, is worth much more than ment, pound for pounc is worth much more than
the solids. The La, ie does not show what proportion of the fertilizing constituents of the food crement, respectively.
As a result of many years of investigation, Sawes and Gillert, of the famous Rothamsted out of every 100 pounds of nitrogen in the food


It will be noticed that the urine contains three
times, or more, the nitrogen that the solids and, being soluble, it is very much more valuable The nitrogen in the food not accounted for in the table is used by the animal in increasing its
weight, or in producing milk.
These figures, as in the preceding table, are simply approximations, but they illustrate very
forcibly that by far the greater part of the nitrogen voided by animals is contained in the liquid excrement
liquid portion of animal excrements is that the more valuable, and it emphasizes the great neces-
sity of farmers using sity of farmers using every reasonable means o
saving the liquid portion of manure saving the liquid portion of manure. For this
purpose, we should have water-tight stable floors (preferably concrete), and a sufficiency of litter It is important that the liquids should be soaked up soon after being voided, as it is found tha twenty-four hours will ferment sufficiently to a al-
low almost one-third of its nitrogen to pass into
the atmosphere. Horse manure being of a very dry nature, it is
extremely difficult to effect its thorough mixture
with the litter and for this and oner ronoons it is liable to rapid fermentation, in which process the lost. Prof. Roberts, of Cornell Iniversity, has found that horse manure, piled up alone for four or five months, loses one-half its value. To pre-
vent. this, it should be at once mixed with the manure from the cattle stables, and, where cattle
are housed in loose boxes, or even tied, there is no better method than to deposit the honse ma-
nure into the cattle pens (or in the ruttens for litter) each day, and draw all the manurn from these loose boxes direct to the ficld, say, twice a week. In fact, the best result.
where the manure from all the far
mixed very soon after it is made.
I find that in the past, the American Experi-
mental Stations have adopted certain figures to epresent the market value of nitrogen, phosphori I also find that the text-book, "Science in Farm. ing," has adopted the following standard, the
range being according as the composition of solids
 highest value:



Upon this basis the conclusion has bee ordinary fresh farmyard manure when the horse attle and swine manure is Nitrogen.... 9 to 15 lbs., at say 15 c ., say $\$ 1.35$ $\begin{array}{ll}\text { Phos. Acid.. } 4 \text { to }{ }^{9} \text {, } \\ \text { Potash ...... } & 9 \text { to } 15\end{array}$
that we may say a ton of manure is wort in the neighborrhood of $\$ 2.00$, at least. nure course, the composition and value of manure depends very much upon the quality of food
given the animals. There is no other single fac given the animals. There is no other single fac-
tor, with the exception of its care and preservation, which has such an influence on the value of manure as the quality of the food. The more nu-
tritious the food, the more valuable the manure That from grain-fed animals will be worth much Thare than from arimals only straw-fed.
more trant
Manure from fairly-mature
Manure from fairly-mature fattening animals is
much more valuable than from young growing much more valuable than from young growing
animals or cows giving milk, the excrement of the former containing 90 to 95 per cent., and the latter about 75 per cent., of the manurial in-
gredients contained in the food. gredients contained in the food.
To show the relative value of feeding stuffs for furnishing plant food, the following table should
be inserted be inserted.
Table sh
Table showing the value of fertilizing con-
stituents in one ing to American and English analyses, estimating nitrogen worth 12 cents, phosphoric acid $4 \frac{1}{2}$ cents, and potash $4 \frac{1}{2}$ cents per pound
TOTAL VALUE OF FERTILIZING CONStITI ENTS PER TON OF MFFERNT FODDERS.

| Fodder. | Computed from American Analysis. | Computed from English Analysis |
| :---: | :---: | :---: |
| Cottonseed meal | \$19.70 | \$22.88 |
| Oil cake | 16.77 | 16.19 |
| Wheat bran | 10.46 | 11.81 |
| Peas | 9.02 | 11.50 |
| Wheat middlings | 7.73 | 10.98 |
| Oats | 6.24 | 6.48 |
| Wheat | 6.65 | 6.22 |
| Barley | 4.77 | 5.74 |
| Corn | 5.36 | 5.54 |
| Clover hay | 7.29 | 8.53 |
| Meadow hay | 5.02 | 6.04 |
| Wheat straw | 1.98 | 2.25 |
| Potatoes | 1.22 | 1.37 |
| Mangels | . 87 | 1.06 |

F.ditor "The Farmer's Advocate "' In ". The Farmer's Advocate " of January 13th
there is a request for plan of implement house, ,
I enclose a sketch and description of one I built I enclose a sketch and description of one I built
I enclone one
last fall, which I hope may be useful. In the firt last fall. which I hope mayy be useful. Ine It builit
place. there is a cement foundation on three sides Dlace, there is a cement foundation on three sides,
which is leetter than posts, as these will rot.
Then. bedded in the cement for sills are $2 \times 6$-in. The method of valuation shown in the first the manurial value of fodders, but no allowance is made for what the animals remove in the food; each post. The frame is of sawed the foot of chat, however, may be calculated from the figures made for losses which are allowance must also be before the manure reaches the field: deductions, the table is valuable, in giving an in -ial values of the different forimate, relative manu consideration in the purchase of these an importan Manure is the staple manure that the Cormyar the soil must depend on to keep up the fertility
 if we would maintain its fertility. There is no muilding $22 \times 18$ feet. which and lumber is for a boon a tarce. well-preserved and provera what a armon of 100 acress in fact, I find it just small


 Fトト

februany 10, 1910
of my building, as about all I had to buy wa I should have mentioned that I used rolling doors. and they do not sag. A SUBSCRIBER.
ones. as
Simcoe Co., Ont.

## Steel Silos

As inquiries concerning the merits and cost of
steel silos have been coming in this winter, we
steel silos have been coming in this winter, we
have been at pains to collect evidence from farmers
have been at puit this kind of silo, as to cost and
satisfaction given.
STEEL SILOS SATISFACTORY.
It will be borne in mind that experience with
steel silos is limited to a short time only, most steel silos is limited to a short time only, most
of those from whom we have received replies hav-
ing had them erected last season. There is only ing had them erected last season. There is only
one opinion as to their efficiency for preserving
oilare. They are air-tight, and consequently there silage. They are air-tight, and consequently there
is no loss around the edges. One farmer says,
i" They compare favorably with cement:" another is They compare favorably with cement:" another,
" Silage has kept in fine condition, very little spoited," and yet another, "since throwing off
the top, have not wasted a forkful." The unanimons report regarding silage freezing is that so W. C. Good, Brant County, Ont., writes that his silo. of 12 feet diameter. and 33 feet in height
(2k feet of cement foundation, and 30 feet of
steel $)$ with a galvanized roof an wooden frame work, cost, including labor, about $\$ 200$ in all. J . Telford, Waterloo County, estimates the total
cost of his silo, 12 feet diameter, 35 feet high, including roof, steel ladder, and paint for both in-
side and out. to be $\$ 225$. Another estimate,
 hollows: Steel for 30 -foot silo, 12 feet diamete
$\$ 126.26$; four men, two davs erecting, $\$ 16$ mason, one day, $\$ 3 ;$ freight, $\$ 7.50$ cement for
foundation, $\$ 3:$ board for men, $\$ 6.75$; total, (rom station, or for pravel or mand for hauling dation. Comparing these figures with those given Sor cement silos, the difference is not great, but is
rather in favor of the cement. Mr. Good says he would not advise an intending builder to use steel
rather than cement, if gravel can he got con veniently, as cement-concrete silos are eminently
satisfactorv, if properly put up, while the steel silo is still something of experiment. Other preference to any other.
CONSTRUCTION.
One contributor gives the weight of steel for a
$30 \times 12 \mathrm{ft}$. silo as 4,750 pounds. $A$ good cement oundation is necessary, with bolts for fastenin wall. Rivets for fastening plates together are
sent. and farmers erect them without serious trouble, so far as heard from. Openings for door
are left at a distance of two feet apart, and steol doors to fit these are supplied.

Fear has been expressed in some quarters tha
the action of the acid in silage would be destruc the action of the acid in silage would be destruc
tive on the steel structure. That may be, but
one exneripce with ctool heen in use for years, shows whey tanks, which hav Whereas cement tanks have not given good satis
faction, points the other way. So far, however the paint supplied for the inside of steel silo does, not appear to be entirely satisfactory. But this
defect will probably be remedied in the near fu-
ture

Fifteen Years' Experience with Corn on R. E. Island.
dit or " The Farmer's Advoca












## THE FARMER'S ADVOCATE

portant operation. I do not think it can be over-
done. We use the disk harrews done. We use the disk harrows and the smooth
ing harrow, and aim to secure a deep, fine and spring, as that turns up so much cold earth, and while a fine seed-bed can be quickly secured, it does not give as good results
The flint varieties we have
are the Angel of Midnight, Improved Longfellory and Pierce's Prolific; Mastodon and White-cap All these varieties will mature fair we grew the Angel of Midnight silage. Last year todon and Cuban Giant dents. The and the Mas have san dent matured so well that we might have saved seed from them, but rush of work pre-
vented this. We test our seed for germination, ing, we use a drill attachment per acre. In sow which sows three drills at once, and has proved entirely satisfactory. We sow about the first week of
June. The summer cultivation is as the plants are up sufficiently, and is continued iurther working. Hand-hoeing is done, if at all
possible. Regarding stage of maturity, we have not much trouble to get it to the glazing, stage; and as to
the yield, while I have never seen would say we can grow at least from weighed, I is nothing else we can grow that season. There so much relished by the cows, and it keeps them in splendid condition. TLPPER FERGUSON.

## A Low Hay Rack

For a long time I have been trying to work out thought of purchasing small wheels, or cutting my own down; but had I done either of these I would best, a rack much further ahead, because, at the would he much hisher her small wheels sides, small wheels, humping over ditehes, bid ough ground, are unsatisfactory. So, to get a ceived the idea still use the large wheels, I conallowing the wheels to run on the outside of the framework, about 9 feet apart, the front ends of the srame extending outside of the front wheels, and held up in position by a hanging trestle built


Side view of a Low Hay Rack.
named. By this arrangement, the rack can be hung as low as we wish, about one foot from the ground. The front wheels swing or turn with the three feet behind the front wheels, allowing this. Only a short reach is required to connect with the grain with a short fork, without an assistant and loaded 35 loads of cornstalks without a fork at For using the hay-loader, it is simply such case to prevent the wind scattering the hay little lattitice of the rack being soo low down. A the hind wheels to keep the hay or grain away from them, and the sides may extend as much companying sketch is a side view of the rack,
which, I hope, will assist you to more readily understand my article. In my rack a covered
stand is erected over the front wheels, in which a boy stands for driving. (i. A. AXNETT.
$\qquad$
 ancl full of grood stuff, just what a farmer needs.
I find rour paper a reat help to me, as I am a
beriumen conetlond. in this coluntry I Imm not loners out from
N. S. Fammers Discuss Ppactical Questions
The annual meeting of the Nova Scotia Farm25 th to 27 th, President A. E. McMahon in the with the President's address, which was short and $\sigma$ the point, and an excellent address by R . Robmental Farm, Nappan, of " Rotation of Crops." ROTATION OF CROPS.
Mr. Robertson started out with the maxim that prosperity of the farmers and the depends on the the individual farmer depends on his ability to row large crops cheaply. He strongly advocated he growing of more turnips, and the following of ase of the barnyard manure, because, by applying a small quantity of manure frequently, much better results are obtained than by applying larger mounts at longer intervals. He liked best a
hreo-years' rotation, viz. : Roots, mixed grain and clover, cutting the clover early for three reasons. First, it is made more palatable and more nutritious fodder; second, it is more easily cured math. discussion Mr Robertson's address animated and useful. sider W. H. Woodworth considered this the most improper rotation of crops, is generally adopted, would revolutionize farming in the Maritime Prov

In answer to a question, Mr. Robertson said a five-year rotation is practiced on a part of the Experimental Farm, and works well; that is, oots, grain, clover, grain and clover, applying the thus applying something to the soil three years Q. Did you ever have trouble to get a stand Mr. Robertson.-When the land has plenty of humus and is fairly well drained, we had not failed get a stand of clover in twenty years.
?. Are you troubled with clover roots heaving with frosts? They are not so likely to if the soil has enty of humus.
Common red and a little alsike
A. Not less than ten of clover, and about ten BALANCE ON RIGHT SIDE OF LEDGER Tuesday Afternoon.-The directors' report and the financial statement and auditor's report were read by the secretary, and showed that the ad-
verse balance of one year ago had been wiped out, and at present we have a small balance on the right side of the ledger. The Exhibition Com-
inissioners' report was read by Commissioner R.
S . Starr, and adopted S. Starr, and adopted. The Commissioners reported an exceedingly good exhibition, but, owing
to very rainy weather, the attendance was small. The report of County Farmers' Associations was
read by Supt. F. L. Fuller, showing an increase ior the year of one thousand members, an increase of one hundred meetings, with a total attendance
resolution was introduced asking for legislation looking to the eradication of such noxiou
weeds as ragwort. Canada thistle, etc. and cominittee consisting of A. F. McMillan, Andrew McPherson, Rev. J. McPherson and C. H. Black Sllep protect and experi report. AEFP PROTECTION AND EXPERIMENTA-
A resolution was adopted asking the Legisla Act, so that every dog must be registered, and wear a collar, with a number on the collar cor responding to its registry number minion Department of Agriculture to establish an experimental sheep station somewhere in Eastern Nova Scotia. Also one asking the Pro quiry re certain insects and fungous diseases, and qure re certain insects and fungous diseases, and
to distribute bulletins giving such information. held. and addressen of a large public meeting was the Town addresses of welcome were presented by Clasgow, and by the Pictou County Farmers' As cociation. which were responded to by ex-Presiden Mave Blark. Lieut,-Governor Hon. D. C. Frazer
sound chacteristic addresses, full of Wednesday OFFICERS
Wednesday Morning. - The following officers were
lected : President. I. S. Kennerly, Alma, Pictor
count :


## Sugarmaking in New Brunswick．

burg．Auditors－E．S．Archibald and J，
Starr，Port williams，and C．R．H．Bryan，Dur
SCHOOL CHILDREN COLLECT RAGWORT． Miss Carmichael，President of the East Pictou Miss Carmichael，President of the East
Women＇s Council，addressed the Convention，ex－
plaining what the Council had done by offering plaining what the Council had done by offering
prizes to the school children throughout the count prizes to the school children throughout the count
or collecting and destroving ragwort，and that by or collecting and destroving ragwort，and that by
that means over five million plants of this noxious that means over five million plants of this noxious
and poisonous weed had been collected and de
stroved． stroved．
Professor Cumming congratulated Miss Car
michael on what the Council had done and es michael on what the Council had done，and es－
pecially in educating the children in the county
The thanks of the The thanks of the Association to Miss Carmichae was expressed by a standing vote
LAND DRAINAGE

F．L．Fuller delivered an instructive ad
Land to Be Drained，and the Reasons．
Fuller said there is as much benefit derived fron puderdraining，by getting the land into shape to hold water，as in getting the surplus water
moved from the soil．He cited experiments sho moved from the soil．He cited experiments show
ing that growing crons require and use more water ing
than falls on the soil during the growing season．
If water is not taken off by drains，it must be If water is not taken of by drains，it must be evaporated，which uses an immense amount of
heat．and makes the land cold．Drainage also en－ hates us to work the land earlier，in the spring， hence lengthens our season．
Q．How wide a strip will a drain affect
A．It depends on the nature of the soil，and on C．What about the action of frost？
Tile should be laid below frost
$\qquad$
A．It is an unnecessary exnense，because（1）
there is no movement of the narticles of soil at the denth of the drains，at anv rate after one vear：and（2）most of the water enters a tile E．S．Archibald，of the Agricultural College Truro．continued the discussion on this suhiect，
and said main drains choult he rum allone a hollow the slone not diamonally．He described the meth ods of takinur lovels，alse of using the plow in as－
sisting in digging a drain． main drain？ inches is much hetter．

What size of tile do vour rerommand ？
It denemis on the erade and on the amount water：nrohahlv not lese than 4 inches for
main．and 2 inches for lateral． thing under the tile？ A．Yes：a hoard laid under the tile will be
found advantageous． Mr．Lavers renorted for Committee on Sheep Sheen Protection Act．rectuiring all does to be rexistered and that everv doy he comnolled to wear a collar wi
registry number．
and Other Noxious on the Fradication of Ragwort hat legisintion he emacterd comnolitiner owneners of their farms hefore it enos to sced．and that munia
inalitios bo reouired to destrov these weeds alone the roalcides．and that the ronvernment he asked
to vote a sum of monev to have the weepls de 1）．Drummond，OOW－TEASTING，delivered an instructive address on＂Dairving，＂，explaining the working
of cow－testing associations，and showed how the of cow－testing associations，and showed how the
testing of one or two herds stimulated other dairy－ esting of one or two herds stimulated ot her dairy－
hen in the same section to adopt bet ter methods；
nso
 two quarts to two gallons．Then we boiled ove
pen fires in large pots；later on，we had ou pots furnaced ing．
with one thirge years ago we used an evaporator and self－feeder，which was a great improvement o the old pot system；and also，about that time
began to use tin buckets for catching the sap After trying different evaporators，we are no using an up－to－date evaporator，with all its mod rlete appliances，which we think is very nearly We will take for our example a sugar bush of
1，000 trees．Then，you require an evaporator about $3 \times 12$ feet，with a 10 －barrel storage tan and 4 －barrel gathering tank．But，in the
place，you need a good building，about $16 \times 3$ place，you need a good This is hig enough
feet，with \＆－foot posts．Thit
inse one end for storing wood，if you don＇t have use one end for storing wood，if you don＇t have to
live in the camp：but you need at least 20 feet for live in the camp：hut you need at least 20 feet for
boiling－room．This building could be put up her for about $\$ 100$ ；this evaporator will cost $\$ 115$ storage and gathering tanks，$\$ 25 ; 1,000$ sap
buckets，at $\$ 15$ per hundred，$\$ 150$ ．You can get Juckets，at $\$ 15$ per hundred，$\$ 150$ ．You can ge
cheaper tins than this，but we think it pavs to the best，and if they are well painted，they will last a lifetime
You need，also，a sugaring－ort arch，consisting of stove and pan that will cost $\$ 1.5$ ．Oh，yes an outfit，with exception of gatherine pails an
sugar molds．which．we will sav，will cost $\$ 10$ sugar molds．which，we will say，will cost $\$ 10$
If vou see fit，vou can get covers for vour sar If you see fit，you can get covers for vour sap
buckets．which will cost from $\$ 4.50$ to $\$ 6.00$ per
hundred
We have not used them hunde．Which will cost from the have not used them much yet，hut they are verv sucecssful in stormy weather．This
 1，nnn to 2, mn nounds of sugar ner vear，but
understand the trees yield more in Ouchec．If it understand the trens yield more in ouchec，If it 1．him nounds per year．We have market here for
all the sucar we can produce，if it he the riaht kind of an article．As fore，prices，forty or fifty
vears ago we considered good price for supar．but later，as we made better
surgar．we eot a hetter nrice．T think at nresent
 ner hundrest：Syrup is worth ahout $\$ 1$ ． 50 per have an order for it，as the sugar is more easily handled．
I nav s．．on ner hundred for getting my sugar inanufartured and shimped． comes home at night，and raises six to ten tur． heys first，year，he is foolish to sell ther and kepep
young ones，as the old turkeys hatch stronger birds than the young．Our geese brought
profits，accordingly，but are a sure crop， good prices．pay very well．We started and，with
with 12
hens， 6 oi which were pure－bred Barred Plymouth Rochs．We got a pure－bred cockerel in exchange
for a day＇s butchering，and the second yar kopl only first－class pure－breds，as we find them as good nake splendid mothers．We separate the year－ lines from the two－year－olds in spring，and set
only the latter＇s eggs．Then，when they sit，we send to market，and find they compare favorably To keep hiens laying，fatten turkers，and make poultry－keeping a success， 1 find buildings must be
light，vermin－proof，and well protected from
weasels，skunks，rats，etc．A grood rat cat is well worth a cup of new milk night and morning， hars．as well as stens，as poultry dogged will sel－ domt bother grain or garden more than twice． been used for muck hut pasture．I tiled bit by
$\qquad$
$\qquad$ in
I summer
did not work，but think $\$ 15$ per acre not over it．On wanted for digging un）．Five dollars bought a lot oi currants and gooseberries，and I have set out
t welve arnle trees a year，as I have gotten the
$\qquad$ fuchess and Red Astrachan apples．Although the rchard has not brought in much money，it is in fed clover Id not crop the orchard，except with etc．．．and the aftermath I let remain on calves， would rather have one acre of tiled ground for nur arade Shorthorn cows we traded for two crat－clase．Jerseve，and from them we raise one
cal：a year．besides a nic in summer and one in an tan with Grima is concerned，almost anvon makes a hetter article．Particularly is it not well canmot easilv exmlain to ome who does not under stand it．Than we use a svrup settler．which T ahnot 8.5 ．We also use just an ordinary flannel
strainer，like blanketing．

Success on a New Brunswick Farm thean．more than kepen us in meat grown）and a
 in for shern nasturn and nevt to it I I fencod an in frat one niono and then another let the sheep
$\qquad$

After FARMS Compretition years＇experience in ohio，several Western States，and the Canadian West，ser came
Fast．and bought a 70 －acre farm． down，the erst on mort care
 twele hens，a turkey and three geese．besides a debts for machinery．
The buildings were fairly
good，but set to poor naturea
doors，
cheses． advantage，and there fand was rich，hut had never
had seed，except the sweepincs of the harn are
and Record of lerformanee＂registry．

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THE DAIRY．
Factory Boilers and Their Care During the chusse and bustle with the average
everything is hustle everythngan．There is no time for anything else
iactorymat but to do the necessary
milk was at its highest，some found themselves handicapped on account of not having boilers large enough to during the slack time this winter changes will be made．Small boilers will be discarded，
displaced by larger ones．some new factories will be built，and boilers will be needed for these Hence，a few hints regarding the selection，setting and care of the boiler，coupled with the construc－
tion of the arch and chimnes，so as to get the be mattess of greal importance to the cheese and

 1 here woulu also be a waste of the anu luel forc－
ing a steam boiler．
in setung a poiler，the place most convenient



 rt of the boiler，and unless it is properly buitt，
ou results cunnot ve outamed．
it is west to get a paan lor building an arch rom som Haule bollermaner；then have it
done by an expert． dinco lor frnng，and have them ladd with hre－ od common brick．Iths will mane it more
ostantal，and retain the heat longer，thus less－
ing the cost of fuel．Where coal is being used ening the cost ol fuel．Where coal is being used
ior fuel，the chimney should be built of brick，a
netal chimney will not last long．1he area snould be at least one－－1uth greater man the com－
bined area of all the liues． 1 he height depends gisuleron newly sect sonould the higher，the better．
have fire put under
em until the mortar of tine brichwork has had
ne to harden naturull at very slowly，and let the stean go through Before lighting the lire in the morning，care
ould be tinen to see that the boiler has suf－ ficient water in it．＇the glass gauge in the water
column cannot always be depended on at sight； tom of the glass to make sure that the pipes lead－ ing to or irom it are not stopped with mud or
Scale．See that the safety balve is in working
order． Order．＇I his is the most impportant valve in cong－
nection with the boiler．livery boiler should have nection with the boiler．Every boiler should have
a blow－olf pipe at the botom，In adition to
this，it should have a suriace blow－oll，or some this，it should have a suriace blow－olf，or son
＂summing aplazatus．The blow－oli at the bo
tom should be opened enotion each day to let an e or mud that might have accumulated es
e．It this is not done，there is danger of the
ebeing filled with dirt，thus excluding the and firm the pipe．Then there is a a danger of of
becoming hot and bursting，causing a great deal lrouble．hot and bursting，causing a great deal
li the pine from the pump or ejector which feeds
water into the boiler be attached so that the the water into the boiler be attached so that the
＂ater will te fecl in through the blow－off pipe，this
danger wall lie largely overcome．
$\qquad$
$\qquad$
$\qquad$
$\qquad$
a disagreathe Molisis．and is maney evaporating in－
to the air．The enkine－bed or foundation should
be solid．
separate from the the，have the engine in a room there is always more
or less ashes and tust from the furnace and flues．



Bepery
Before
cylinder
over ornce
until the

Daipy Temperament．
 We have reached a turning－point in the market
in our dairy produce．Though the stream is but作，tivulet as yet，it is worth while，at this wing．Consider what are the chances of its
The fear has been expressed that the nerican Government would soon put a stop to shmpment of cream by higher duties． Juaging by the present＂．row＂＇the consumers
期 favors，or even justice，from covernment ；
$y$ are line an unorgunized mob－nor able to
$\qquad$
$\qquad$ ople．The Americal milk producer，anyway， has not much to complain of these duys，as those
in Aew J＇ork State，at least，are geting $\$ 2.10$ per 100 pounds ior their mill，ellivered at the
nearest milk station on the railway． 1 his goeg over 400 nilles to the cities，whath serves，gaso
over thas to be gathered from such is of milk，when it distances．＇he
her Consumers in the states are increasing much faster is，are the producers increasing their output？ Is a matter of fact， 1 do mot consider the
Amencan people，as a nation，any mure tnan
anadians，have what we maght call the＂dalry emperament，＂or，to be exact，they are not real
tarirymen．＂To make this more clear，as to what
auiryman is，or what one has to do to be en titled to the name of dairyman：it a man ，inus bee tree and tanes the noney we do not call mun In apiarist．Why，then，should a mun who rous dairy man ？I don＇t think we should call anyone
who does not get at least 6，uru pounas of milk yearly from his cows a dairyman．Several obtann ords ever made anywhere have been made in tue I nitud states and canada，but they are the ex－
ception，rather than the rule．With such notable extron，cather than the rule．With such notable
exspecially of wat a good cow can do，it set many，
busins and professional people，won－ especially business and professional people，won－
dering why others don＇t do the saine． 1 ne reason is not that others are stupid or ignorant，in the
general acceptance of the terms，but that they to one that those selisame critics would do no
Lane upon line has been printed about balanced rations，what to feed，etc．，but how much has it
hilped．There is very little increase in yearly
yideld of the majority of herds．The 3，ovo－pound－ per－ycar cow is still with us，and will remain tor sone time．Take two neighbors：one will send
in as much milk in a year to a factory from 10 cows as another will from 20 cows．And this is ordioary affairs，hut he has the dairy tempera－ Tnent ；he is steadier and more regular in the
care of his stock．How necessary this is，will be Seen if we but consider what a cow has to con－
tend with．Nature did not intend her to give but enough to feed her young．When a cow give
only 3,000 pounds of milk a year，it puts quite tax upon her system；if we want twice this，three four．even eight times this quantity，it is at once
apratent we are making great demands upon her．
all this increace A11 this increase must come through increased
work of her jaws，stomach，lungs，etc．；we are
really working the most delicate of machinery， which is easily put out of order when not man－
aged right．This organization of hers is affected
greatly by changes both of temperature and ir－ regularity．When it gets very warm， 90 degrees
or so，the digestion of her food makes her alto－ or so，the digestion of her food makes her allo－
gether too hot when doing enough for big yields gether too hot when doing enough for big yields
of milk．For this reason，dairymen find it best to
have large vielders freshen in the winter，when it have arge vielders freshen in the winter，when it
is easier to keep an even temperature，and avoid
the extremes of heat and cold alihe．Many do
this and yet big yields；others do not，and cannot
tet big yields．It would be utterly impossible for a cow to make a large milk yield under conditiong
to which she is often subjected．When doing good work，the pores of her skin are opened up；some
times，indect，she sweats．Therefore，the dairy－ man finds it a great benefit to her to give her a
groo！brushine，and kepp her hair and skin in and stancls there，the cold chills her just as it
womlan horse that had becn warmed up and left
standing in the cold，her pores close up，and many such chills put her all out of condition．
Then．if she is kept in a poorly－ventilated place
her luncs cannot do such effective work．It is reall．through her lungs the increase comes；so
that．when fresh air of the proper temperature is not provided，we immediately decrease her power
of production；besides，breathing the impure air
of nf production；besides，breathing the impure air
win injure her lungs，if continued any length of
time．The right temperature and pure air can
steadiness of purpose and dally routine is irk Temperamentally，must people on this continent． seem about lise the climate－changeable．The
cow，maning her milk through the delicate organ Cow，maning her milk through the delicate organ
ism that she does，wants a very watchful care taker to protect her from sudden changes．If w would be able to care for herself，and many more would get large milk yields，but not all
even then，because they would not milk her regu－ even then，because they would not milk her regu
larly：They would want to lie in bed longer sun day morning，or stay at the circus later some night．There are many who would not even milk her regularly：
And，to get
give her good care for two or three years to de velop her lungs and digestive organs．This takes lime and patience．so that this dairy tempera－ the faithfulness of a nurse，and the tenacity of a poiticul－othice seener（or porous plaster） Temperamentally，the people of this continent to get great results irom dairy cows，and the milk yield must continue low．If milk produce was very high in price，and other things lower， then therc wourd be greater development，because are high in price，also．To those who can and do give the cow the best care，there will be big inoney，as the demand for dairy produce will con－
tinue to increase faster than the production．Duty or no duty，the American people will want more Denur product yearly，and it is very probable that
Denmark and Holland may be shipuing their prod uce to the States soon，as the people in those is due their the dairy temperament，and to this characteristic of this continent and histery is not us that the ternperament of a people does no ment to much．Anyone who has the tempera finds his operations restricted the dairy cow soon getting the right help；even a poor millker is erally the last job，and the sooner it is is is gen sooner the day is done．And cows are not often itself，but it means success or failure．Failure to shrink from the cow not only causes her to which is caused by poor milkers，with well－fed well illustrated by the railway brakeman ：There as seemingly no trouble to get men for this job and yet the risk of losing life or limb is great， hours irregular，with but little chance of pro－
motion（except to the other world）．Human na－ ture craves changes and excitement，to a greater or less extent，and the dairy cow does not want ex－ citement or change．
She is capable．
right，and man is through right，and man is through her able to produce
more food for the human race than by any other animal，but man must do his share．A man can on a bicycle than he can walk，yet the only power is his legs，the same as before．He is using a machine to advantage，but he must be on the lookout for stones and snags，and keep a steady
ballunce，else he will come to grief．When he falls off a few times，it takes the pleasure off also． There is profit and pleasure in a large－yielding cow to those that will use her right，and not get anders and dall off．There is pleasure in riding a
tandem＂bike，＂if the other fellow does his share but if he does not，and a fall is the result，there
is no pleasure to it（unless，perhaps，he gets hurt the worst）．Something the same with $a$ cow trouble is that the wrong man is sure to suffer． The success of the dairymen in Holland and Den－
mark is due to their temperament steady and industrious，with mostly small farms and herds， which receive the first attention of their owners． Land is worth $\$ 300$ or $\$ 400$ per acre，or，if rented， very high．It is＂ruot hog，or die．＂A bal
anced man is of even greater importance to the cow than a balanced ration．Great success in
dairying is only to be obtained by those who have dairying is only to be obtained by those who have
or will cultivate the dairy temperament．
（ 1 E（）．RICE． About the ideal thing in cream vats has been tario Agricultural College．It is a Canadian in－ ream，Vat，＂is catented in The Century Cooler and 1907 by 7 ． S ．Lawrence， west Shefford，，it is in the form of a large asin，into which the cream flows first．It has a holding capacity of ahout 3,000 pounds，and about it．Running at that rate，hy the time the cream－ eryman is through waching un the cream taken di－
rect from the nactouri－pr will he down to within


Methods and Returns from a Large Herd. ditor " The Farmer's Adver in
As dairying is my principal branch of farmin I am anxious to learn all 1 can in that line. prizes you offer should bring out some information.
Quite frequently we hear of large yields from herds, but seldom ever what lhe cost has been to produce the yield. In the competition for your great interest to your readers. It is not what the cows produce, but, Do they pay, or do they
not? Previous to four years ago, I kept from 25 to 30 cows, and 30 brood sows, and sold from to $\$ 3,000$ worth of pork. I could tell just what I fed my hogs, and what I received for them. As I was losing money the last year with hogs, and
a powdered-milk factory opened up in Brownsville, with prospects of better prices for milk, I dropped the hogs and increased my herd of cows to 70
Since then dairying has been my hobby, but Since then dairying has been my hobby, but I
must confess I have a hankering after the plump little pigs, with their tails curled up over their backs, and especially with pork at $\$ 8.25$ per cwt Mut, while I am sending my milk to the Canadia cash, pigs are out of the question. As my rev enue depends entirely on the cows, I am seeking all the information I can find, and am willing to
give what little experience I have had in return. As I said, four years ago I increased my herd to 70 cows. That year they produced 360,431 pounds milk, an average of 5,149 pounds,
the next year, 411,027 pounds, an averthe next year, 411,027 pounds, an aver-
age of 5,871 pounds. The next year I reduced age of 5,871 pounds. The next year I reduced
my herd to 65 cows, which produced 403,714 pounds, an average of 6,211 pounds. Last
year (1909) I again had 70 cows, including seven two-year-old heifers, which gave 469,654 pounds an average of 6,708 pounds per cow. Considering the size of herd and very dry weather, this is not so bad for common grade cows, with perhaps
more Shorthorn blood than any other kind. There is an increase in four years of 1,664 pounds per most of the improvement in the 8 erd pounds. The complished by keeping records of each cow, weigh ang three times a month, and culling out. the business. I hope tore years, a and continue in Now, as to feed, I have not much to cay only

 and bran. This year I valued the chop ai $\$ 1.25$ per cwt, previous years, $\$ 1.00$. Bran was f fed $\$ 134$ worth of bran with silage, on accober of drouth. These conditions would have made their feed about equal to previous years. I had no roots this year, but had in previous years. I
attribute the increased yield to better cows and more regular and careful feeding.
As to care of herd during 1909, I try to have
my cows freshening during March and April. Have my cows freshening during March and April. Have
been very successful in that; had only one farrow cow last year. My experience is that cows freshening then, and well fed until grass grows, will
give more milk than if they freshen any other time give more milk than if they freshen any other time
in the year. I keep two pure-bred Holstein bulls,

nate night after the first of June. Have started

both; refilled the big one. Everyone who comes
Doth; refilted the big one. Every one who comes
in miy stables says my cows look well.
I want good milkers; each one milks his own cows. A poor milker will soon spoil the best cow. I found another advantage in weighing
milk: A new hand started milking ; when we milk: A new hand started milking; when we saw that four of his cows were down in their milk.
I went to try them, but they would not give it to me. I knew there was milk there. I fed them
a little chop, then got 18 pounds of milk. He never milked those cows again. ${ }_{1}$ give two months' rest; rather give them more than less. they begin to spring, then feed a little oat chop. They are closely watched after the first of March. Try to keep every cow at her best, as one sick cow
soon pulls down the average. One man does all
the feeding and care of the cows, yearlings and the feeding and care of the cows, yearlings and
calves, except cleaning the stables; they are calves, except cleaning the stables; they are
cleaned with the sleigh or wagon, and manure is
drane cleaned with the sleigh or war water-bowls in the
drawn to the field. There are water stahle. As to cost of maintenance of herd, three years ago I started to raise calves for this purpose ;
think 10 or 12 each year will do it. I feed the calves well the first winter: clover hay, turnips and chop twice a day; grow a few turnips just
for calves. value to cost of milking and running the farm Nalue of hay and pasture, 50 acres corn in silo,
value of manure, interest on capital invested, will
just give a short summary just give a short summary of receipts and exsee fit to publish this) place your own values an draw your own conclusions. Will first give
$\qquad$ EXPENDITURE implement
Hired help
and $\$ 30,000 ;$ stock and
$\$ 6,000 ; \$ 36,000$, at $5 \% ~ \$ 1,800.00$ 10 tons oil cake, at $\$ 32$ per ton $\quad \begin{aligned} & 1,530,01 \\ & 325050\end{aligned}$

 suo pounds twine, at 10
bushh seed corn, $\$ 19.37$

. by a trio of Golden Wyandottes, of wondertual poro-
portions, for which I had grudgingly parted $\$ 3.54$ 2nd hen Imy was the when I won 1st cock, 1st and and with what feelings of contempt and Gcomp), on my return. Right merrily sang the my yard while, and when I got through I had nothing for With the money obtained from the local butche for my slaughtered pets, I bought a pen of Buof rom ounin to realize the pleasure to be derived Goldens' turn to go, and go they did now the of my mongrels: from being a "Dotte", I sam let them out.
The land at my disposal consisted of my own was vacant, and, being covered with ceadjoining made an admirable summer home. For buildings, 1 had everything from a grocery box to a leangsto, the knowledge into my fevered head not yet got fird poorly housed is a poor bird after all, ${ }^{\text {a,good }}$ During that summer I purchased a breeding
trio of Buff Rocks which the breeders had used themselves, and from which eggs had been sold
for $\$ 8$ a setting, as I had by this time determinet upon the breed and color I wanted; and having by this time were pouring into my mazines, which was the best way to start, I went in as deep pa Moving would allow.
if the city, where I had acres of good vacant land adjoining, 1 determined to start properly, using press, which I had been greedily devouring for I built a house $12 \times 24$, arter the curtain-front styl used on the Maine Station Sarm, and with
my Bulf Rocks and Wyandotes started the nem
year 1 gave the trio of Rocks $8 \times 12$ feet, and the
Wyandottes ( 17 in number) $16 \times 12$; and as eggs were selling for $\%$ number) $16 \times 12$, and as engs birds laying like the 200 -eggers I had been reading
about, I began, on January 1 st, to keep account of receipts and expenditures, a copy of which, to On February 11 th I started my incubator, with priserl to get 98 strong, husky chicks. These were he right outside in the brooder on the morning of \$.tol Sold $\$ 132$ wheat, at $\$ 1.02$............ 895.56 totated 105 chichs from 120 eggs. It was very 57 calf skims.
$\qquad$
$\qquad$
$\qquad$ condensory prices for those months, I would have
got $\$ 250.04$, which would have made an averaci of $\$ 80.73$ per cow, and given me a balance of
$\$ 2,216,29$ I got $\$ 163$ extra ior my milk. Weing for help a little high. My help are all marriey
$\qquad$
$\qquad$
$\qquad$
mon grades do. lave tripd alfalfa two years. The only tonic I used (and that only
lost it the first winter each time. will try

## POULTRY

\author{[^1]}

- Wutcome
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rosses af Hack
Hack mey Stud.

THE FARMER'S ADVOCATE
milk on the pooling system, a discussion developed Cattle Clube, feel that members of the Canadian Jersey Cattle Club, feel that a great injustice is being
inflicted on those farmers who keep cattle giving milk rich in fat by the system of pooling milk at cheese factories, and we would request the director minion and Provincial Departments of of the Do with the object of having experiments conducted that will show to the patrons of cheese factories the injustice done and the loss thus sustained.' should be standardized by law Another resolution regretted that while Jerseys are one of the greatest breeds of dairy cattle in the world, none are kept at the Central Experi
mental Farm, where farmers expect to see repre sentative cattle oi the leading breeds, and urged sentive cats t oi the leading breeds, and urged
the directors to their views before the Dominion Minister of Agriaulture, with a view to having a representative herd of Jerseys kept there
Three hundred and forty registrations wer recorded in 1909, divided among provinces as fol Alberta, 5 : British Columbia, 19. Saskatchewan, w Brunswick, 12: Nova Scotia, '21. Prince Fdward Island, 11 . 'There were in all 107 transSers, and the membership reported was 79 .
Twelve Jerseys have been entered in the Record of Performance test. The following had qualified as to production, but had not as yet fulfilled the as to production, but had not as yet fulfiled the
nceessary condition of calving within 15 month
from commencement of the test: Iady Buttercup from commencement of the test: Lady Buttercup
of Pender, a two-year-old, gave 8,016 pounds milk and 499.7 a pounds of butter-fat within the year.


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The Secretary read a letter from Dr. Rutheriord, saying that in future a cow will not be ac-
cepted for Record of Performance test unless she
has freshened within 30 days prior to date of an has freshened within 30 days prior to date of ap-
plication. The financial statement showed a balance on hand of $\$ 787.44$. The secretary and the
1'resident were appointed a committee to deal with the matter of having feed taken into account in
the dairy tests at the Winter Fairs. Upon the the dairy tests at the Winter Fairs. Upon the
conclusion of the business the meeting adjourned

Praise from Across the Ocean.
Our esteemed contemporary, "The Farmer's
divocate," which justly claims pre-eninenene among Advocate," which justly claims pre-eminence among
agricultural papers in Canada, recently issued as
its Christmas Number a wonderfully fine publicaafricurist papers in anada, recenty issued as
its Christimas Number a wonderfully fine publica-
tion, which, from the pictorial and letterpress points of iew, constituted one of the best special
numbers that have come to us from across the Atlantic for a long time A very striking article
on "Fiducation for the Farm," by John Dearnes is givent the place of honor. . The illustrations
are of molnalified merit, heing intensely interesting are of monalified merit, heing intensely interesting I valedictory announcement in the January the resignation of its editor, Rev. Br. (V. J. S.
Bethune. now Professor of Fitomology at the on-
tario Amricultural College, who put forth the first tario Agricultural College, who put forth the first
number of the rablication in August, 1868 , over 40
vears ago, and, with the exception of $a$ period weight of advancine years and the disatility The welght of advancing years and the disability of-
casioned iove impaired evesight have led Dr.
13ethune to relinquish the editorship of the maga-

Shorthorn Breeders' Annual Meeting.
he 2lun ar the Dominio on Februury 1st, Association, held ateronto breeders from the various Provinces, representa tives being present from at least Ontario, Quebec, ova Scotia, Manitoba, Saskatchewan and Al berta. Captain T. E. Robson, president, in ann popularity and importance of the breed in supply ing the ever-increasing demand for first-class beef Te spoke in optimistic terms of the prospect of a prosperous future for Shorthorn breeders, referring o the championship winnings of this breed in th at ('hicago, and of export steers at the Ontario Winter Fairs : also to the increasing demand from he United States for first-class cattle from Can ada to strengthen show herds, in which they have made such splendid records there in the last few vears. The marked shortage of good feeding cat le in the country called for a more general use of Shorthorn bulls to grade up the common stock of the country, and breeders were counselled to ase the knife more freely on inferior young bulls, and at the same time raise the standard of quality of breeding herds. Canada is, and is evidently destined to be, the favored breeding-ground for the supply of virile blood for the improvement and maintenance of high-class Shorthorns on the American continent, and breeders should vie with
cach other in keeping up our reputation in this regard. The report of the Secretary, Registrar and xecutive Committee, which was adopted, showed issociation. Vol. XXVI. of the Herdbook, closed lecember 31st, contains the pedigrees of 3,459 hulls and 3,763 cows, a total of 7,222 . Regis-
trations for 1909 numbered 7,487 , Ontario leading, with 4,634; Manitoba second, with 1,529; Alberta hird, with 544; and Saskatchewan fourth, with 116 . The number of transfers recorded was 2,827 The cash received at the National Records Office, and deposited to the credit of the Dominion Shorthorn Association, was $\$ 12,214.42$. The receipts 109.39, and the expenditures in that work, $\$ 3$, 497,18, leaving a balance due the Shorthorn Association of $\$ 612.21$.

The financial statement of the Association, Jan and to Dec. 31st, 1909 , shows receipts of $\$ 15,384$, on hand of $\$ 2,837.50$.
The following is a list of the appropriation of prize-money to exhibitions for 1910 : Ontario-
Toronto, $\$ 1,000$; London, $\$ 250$; Winter Fair, Toronto, $\$ 1,000$; London, $\$ 250$; Winter Fair,
Guelph, $\$ 225 ;$ Winter Fair, Ottawa, $\$ 125$ Mani-
toba-Winniper $\$ 300$. Brandon $\$ 300$ Alberta Cuelph, $\$ 225$; Winter Fair, Ottawa, $\$ 125$. Mani-
toba-Winnipeg, $\$ 300$ Brandon, $\$ 300$ Alberta
-Calgary $\$$ Saskatchewan-Regina, $\$ 300$. -Calgary, $\$ 300 . \quad$ Saskatchewan-Regina, $\$ 300$. British Columbia- Victoria,
hrooke,
$\$ 100$. Maritime Provinces - Halifax, $\$ 50$ The amount of special grant to the Dominon Exhibition, to be held this year at St. John,
FLECTION OF OFFICERS.

The clection of officers for 1910 resulted as folPresident, Peter White, Pembroke; Second VicePresident, Harry Smith, Exeter ; Secretary-Treas-
urer, W. G. Pettit, Freeman.
Board of Directors-W. D. Cargill, Cargill; W.

1. Dryden, Brooklin ; S. Dyment, Barrie: P. M. A. Dryden, Brooklin; S. Dyment, Barriie: P. M.
Bredt, Regina; J. M. Gardhouse, Weston: Hon. P', Talbot, Lacombe: J. T. Gibson, Denfield; Jas,
Leask, Greenbank; John Davidson, Ashburn; Iohn Garchouse, Highfield; Wm. Smith, ColumBurlington: J. W. Washington, Ninga: John Executive and Finance Committeo-Capt. T. E.
Bobson, London ; Peter White, Pembroke ; Harry Robson, London; Peter White, Pembroke : Harry
Simith, Exeter ; Robert Miller, Stouffille: J.
M. (iardhouse, Weston.
 Trydon for this Association and for the cause of also expressing sympathy and condolence with the hereaved family, was on motion of A. W. Smith, M. P. seconded by Peter White, K. C., unanimousto Mrs. Dryden. A resolution was also adopted urging the man
agement of the Canadian National Exhibition, To ronto, to hurry to completion the live-stock judg
ing arena, repeatedly asked for by the Stock
$\qquad$

Ontario Copn-growers Enthusecond annual siastic.
$\qquad$ The Town of Essex, in the extreme south-west gathering of the corn-growers there in an unmis takable way. The motto in big letters, "Welcome to Essex, "" executed in corn ears, or cross sections hall where the meetings of the convention were held, was but one of the many signs showing that Essex was glad to see the corn men.
Almost every store-window in town was deco-
rated with corn in it grew, corn in the ear, shelled, ground, popcorn whole and popped, were to be scen as decorations everywhere. By the way, it may be noted that
corn ears lend themselves very readily to decorative effect, whether for large letter signs, or to be
hung in strings, stacked in piles, arranged in pathung in strings, stacked in piles, arranged in pat-
terns, or stuck into shoe tops. One window had
a raccoon a raccoon on a limb with an ear of corn in it.
mouth; another, over a spread of popped corn had the invitation in a popcorn letters, "Pop In
At the hotel headquaters rated, the guests were served, among other things with canned corn, johnnycake, corn soup; and, in some cases, corn juice as well. Citizens opened
their doors to accommodate those who their doors to accommodate those who could not
find room elsewhere; business men attended the show and the meetings, and all strove in many ways to make the visitors feel at home.
Looking at the splendid display of corn in the
exhibition, of which there were over 800 .ntries noting the specially pleasing and significant feature of such a large number of exhibitors, over 300 competing for prizes, and observing the close at as the fine points in corn selection or the advan tages of draining were being discussed by the
speakers, one was led to think that speakers, one was led to think that the winter
shows were now doing the educative shows were now doing the educative work that
the great fall shows started out to do, but have so largely eclipsed with amusement and other fea
tures. $\xrightarrow[\text { To A. McKenney }]{ }$
at Essex, a great deal of the success of the corn show and convention is due, and the Essex County people are proud of him, and of the fact that to gether they have started the first corn show in
the Dominion. But Mr. McKenney has beon ally supported by a strong board of directors
well distributed well distributed
have been influential in interesting township and
county councils, county councils, so that the prize money offered county councils of Essex and Kent donated $\$ 200$ each towards this, and, in addition, at least eight
townships have made grants of $\$ 2.5$ each to help things along.
East, offered. a silver Farmers' Clup, valued at $\$ 25$, Tilbury
various banks, business firms and various banks, business
have also freely assisted In opening the show and convention on Tuesday
afternoon, February afternoon, February 1 st, President J. J. Duke re-
ferred briefly to the fact that last year everyone who attended the corn show went home deveryone
and that there was a promise of much largor at, tendance this year. He emphasized as tirst in importance the development of the Canadian people
Local conditions must he studicd. In lissex speLocal conditions must he studied. In Fssex spe-
cial attention to underdraining was required, and
the subject therefore had the subject therefore, had a plate on the tro-
gramme before the convintion, study of the
Corn plant was of ereat value, and." said he, want men of war."
The proceedings, which lasted without internoon, with practical demonstrations in corn simlow tion and juelging by Profussor Klinck, of May.
donald College, Que. at the rink, where the show
was held, ond in the at hay, Prof. Zavitz; L. H. Newman dian
liams,
lial by day. No one becomes so absorbed in analyzi
the fine points in corn as the old corn-grower. The corn exhibition itself was a great success. fold, both as to entries and number of those exmade special mention of the fact that though 1909 was a much less favorable season for corn than
1908 , yet the quality of the exhibits particularly 1908, yet the quality of the exhibits, particularly Though the prizelist included flint as well exhibition, the dent varictics greatly predominat ing. White Cap Yellow lent, large and small varie-
ties, and IBailey Dent, seemed to be special favorOur own Professors, Klinck, Zavitz and Da and Mr. Newman, got a very fine hearing, as did Also Prof. Williams, of Ohio, who spoke on "Corn
Improvement," and a synopsis of whose address we hope shortly to publish.
The evening mecting on Thursday, Mayor Doyle presiding, was addressed by Hon. J. S. Duff, Min
ister of Agriculture; George Clark, Seed Commis sioner, Ottawa; Dr. Anderson, Mernber of Legisla ture for South Fssex; P' H. Bowyer, Member fo Cast Kent, and others. Music was provided b
the male quartette of Essex, and other local mus cians. At the annual meetine of the Ontario Corn-
growers Association, held on Fridat, February
4 th. the repolts of the Socretary and Treasurer
 We trust the Canadian press may never become
too narrow to open its columns to any man's honhas, so far as our observation gress, been canada Miller's anti-race-track gambling bill. That posi for reasons hitherto set forth. There are, hows ever, some horsemen, particularly devotees, of the
Thoroughbred, who believe that racing is necesser in the best interests of horse-breeding, and that ing. The views of this class were admirably represented by Dr. J. G. Rutherford before the
l'arliamentary Committee in Ottawa a or so since. As his remarks were somenhight
briefly and unfairly reported in the shat tain from him while inte" took the trouble to obterview, setting forth briefly the representations I believe the Thoroughtred to be the found tion of practically all that is best in light-horse
breeding. He has been carcfully developed by to best horsemen in the world from the best founda-
tion stock procurable. The contests for which he han stock procurable. The contests for which he
has for hundreds of years been bred have given him a concentrated strongth, a courage, an enequine species. Add to these attributes the fact that ine upwards of a century there has been ab-
solutely no admission of foreign blood in the English Thoroughhred, the result being a pre animais. All our best breeds of light domesticated descended from the Thoroughbred. The American rotter owes his origin to the imported Thoricugh that is best in him to the Thackney owes all rench and German Coach, and carriage horses, the of Thoroughbsed beach, have had liberal infusion ee remembered that prior to the importation will the American Standard-bred horse, which began some twenty-five years ago, we had a magnificent ful horses, with conformation and quality. power horses, Was by an imported Thoroughbred horse, apidist; and another of the most famous pro-
renitors of these roadsters, Royal George, was breil along similar lines. At the present time our road
ster horses, both trotters and Hackneys. and priced in accordance with their possession of
qualities. which, in every case, is due to the pres
ance of Thorou$t h b r e d ~$

Gree. We are breeding in Canada, annually, hun-
dreds of thousands of useless, light-legged horses;
mongrels, without quality pecial character of any kind. Gres having quality, substance and size, we gain
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mont has never needed to spend money on would losit the raced. the Thoroughbred horse

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THE FARMER'S ADVOCATE
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The Toronto Shorthorn Sale.
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sale pavilion, $\qquad$
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$\qquad$ pas superior in quality to that of the males. The nine herds contributing
Sir George Drummond,
Peter White, W. G. Mett
John Miller, Miller Bros
John Miller, Mifler Bros. John Miller.
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$\qquad$ Autumn Rose, Oct,, 19077 ; Miller Bros.....
Alexandrina 36th, March, $1908 ; ~ T h o s ~$
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$\qquad$ Pine Grove Secret (eth, March; 1908; L. A. Armstrong, Yarmouth, N. S. ............
Vanda 2nd, Jan., 1904 : F. W. Harding..
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illage Princess, March, 1907; C. A. Cam
eron Sybil, Jan., 1909 ; W. Miller, Wilfred, Ont
Rosetta 19th, Sept., 1908 ; Carpenter Ross ............................................ $100 \begin{gathered}\text { Silver Light, April, } 1909 \text {; W. H. Corelba, } \\ \text { Fullerton, Ont. }\end{gathered}$ BULLS .
000 Village Swell, March, 1909 ; Robt. Failon,
$\qquad$
 Sutton, Ont. ... ..............................
400
 $125 \begin{gathered}\text { Winthrop, Ont. ... .......................... } \\ \text { Wind Master, Sept., 1908; Alex. Kerr, } \\ \text { Winthrop, Ont. ... ............................ }\end{gathered}$

 500 Trunton, Ont. ................................. 250 Columbus, Ont. ...................................
 $35 \begin{gathered}\text { eron, Cataract Jct., Ont. ..................... }\end{gathered}$ Brougham, Ont. ... ................................. beli, Woodville, Ont.
50 ; John Camp-
Master Mason, Jan 575 Carberry, Man., ................................ Clinton, Ont. ........................................
Ottawa, Nov., 1908; Wm. Chase, Grand
Valley, Ont. ........................... $260 \begin{gathered}\text { Valley, Ont. ................................. } \\ \text { Royal Cho, Jan., 1909; Peter Stewart, } \\ \text { Everton, Ont }\end{gathered}$ 00 Count Arthur, May, 1908; R. \& A. Oliver
Royal Hero, Dec., 1908; E. Martindale \&

Sons, Mt. Healy, Ont. W. Martindale \&
Silver Iight, April, 1909; W. H. Corelba,
Fullerton Ont, Seventy-five animals sold for an average of 125
$\$ 365.60 ; 129$ head sold for $\$ 36,925$, an average
$\qquad$
Western Ontario Clay Workers. The sixth annual convention of the Western On-
tario Clay-workers' Association was held in the 275 Town of Essex, Februbry 3rd, 1910, the members
300 also taking in the big corn show, which was run-
$\qquad$ 350 prices of brick or tile, but for the members to con150 fer with one another as to the difficulties met with
165 in the business, to get all information possible from specialists, and to foster good fellowship and acquaintanceship among its members.
At the meeting in Essex, such subjects as "Me-
chanical Draft vs. the Stack," "Draining Machanical Draft vs. the Stack," "Draining Ma-
chines" (by Mr. McCaughey, general manager of
Buckeye Traction Buckeye Traction Ditcher Co., Ohio), "Essentials
of Kiln Construction," "Exchange of Ideas and 125 of Kiln Construction," "Exchange of Ideas and
105 (iood Fellowship" (Jack Miner, Past Pres.), "Fuel
110 for Tile Burning, wood, coal or gas," and other
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Dominion Swine-breeders' Annual Meeting
At the annual meeting of the Dominion Swine
breeders' Association, called to order in Toronto
February 3rd, by President D. C. Flatt, registra February 3rd, by President D. C. Flatt, registra
tions for the different brceds in volume 20 wer reported by the directors as follows : Berkshires
1,214 ; Yorkshires, 1,775 ; Chester Whites, 607 seys, 44; Essex, 5. The statement of registrations, according to Provinces, is as follows: On
tario, 2,013; Manitoba, 214; Saskatchewan, 164 Alberta, 219 ; British Columbia, $74 ;$ Quebec, 795 ward Island, $56 ;$ United States, 18 ; making
total of 3,735 registrations. Transfers were 40 Total receipts for 1909, on account of the
swine records at Ottawa, were $\$ 3,121.60$. Besides the memberships, the profits from registrations fo
1909 amounted to $\$ 314.16$ The financial state
Ther ment shows cash on hand as per last report
$\$ 1,886.23$; total receipts, $\$ 5,540.16$; cash on hand $\$ 1,886.23$; total receipts,
Dec. 31 st, $1909, \$ 1,393.12$
the matter of a grated discussion developed over don. The President suggested that the grant to
this fair be cut off entirely until the fair board saw fit to increase the prizes for hogs to a decent amount. Motion was finally made that the Dominion Swine-breeders' Association discontinue its
grant to the Western Fair unless they would raise their prize-list and duplicate the prizes offered by the association. It was proposed in amendment and carried, that the grant be given if the West-
ern Fair Board would raise its prize-list for swine by $\$ 25$ to each class.
It had been requested that provision be made for recording Hampshire swine in connection with of the directors that the Hampshires be taken in
and arrangements made for registration of them was adopted by the meetin
mission to and ratification the ap for suh The directors, however, at their meeting held prior to the general meeting, were not entirely satisfied
with the constitution, and suggested that the matter be referred back to the executive. On motion
of Major Hood this was done the constitution being referred to the executive to be considered On motion of $W_{I m}$. Jones, seconded by
Harding, the association adopted the new Harding, the association adopted the new set
rules of entry drawn up, which have the effect
anditing to revistration in the Canadi National he United States Secretary of Agriculture. The usual resolution regarding the Ontario Ve
erinary College was passed, as at the other stoc
breeders' meetings.
terance was made by the 1 i.ive-stock Commissioner orance was made by the $1 . i$ ive-stock Commissioner of the hog-raising industry, referred to a demand
from the West some time back for $\$ 8,000,000$ to establish a packing plant, though later their re-
quest had been very considerably moderated However, while the Government had not taken any action in the matter, there was probably the germ
of a great idea in their suggestion. While Dr.
Dutherford did ther to be inferred fremifically say so, it was Department of Agriculture had contemplated some
-fforts to establish a great dead-meat trade, not
only in the West, but all over the country, onducted by a company working on bonds held Oflicers were elected as follows: President,
Mn. Jones, Zenda; Vice-President, (A, I2, Douglas,
Titchell; Director for the Berkshires, \&. Dolson, Vorval Station; Yor the Berkshires, S. Dolson
ord : Chester Whites, D. I. Fe. Brethour, Bur
D. Deoursy, Bornholm amworths, A. C. Hallman, Breslau; Essex, Jos
eatherston : Moland-Chinas, W. M. Smith, So
and, Ontario land; Ontario Agricultural College. Proi, G. F to inir hoards-Canadian National, I). C. Flat
and M. Dorson; Central Canada, R. Morrow and
R. (:arbut; Western Fair, Geo. Douglas and
II S. McDiat;
 Y. Show, Wm. Jones, R. J. Garbutt, P. O. Col-
ins and J. C. Smith.
 T3ershires-Frank Teasdale, Concord; reserve, binding. Attention was directed to the number or
Teter McEwen, Kirtch. Chester Whites -G. B. sheep sent West in the cars supplied by the live IIood, Guelph, reserve, Jos. Featherston, Streets- stock Association. In 1908 only 14 were Live
sent
ille. Central Canada Fxhibition, Ottawa: York- out, while last year 84 head were shiped ville. Central Canada Fxhibition, Ottawa: York
shires and Tamworths-1). C. Flatt, Millgrove; re Serve, R. J. Garbutt, Belleville. Berkshires - 12 Cance, Ida. Chester Whites-A. Torkshires and Tamworths-Prof air, Guelph Cuelph. Berkshires-J. J. Wilson, Milton. Cheste Whites-G. B. Hood, Guelph. Bacon hogs-J. C
Vichol, Hubrey; D. C. Flatt, Millgrove; R. J. Gar butt, ${ }^{13}$

The late Sir George Drummond.
$\qquad$ cut, while last year 4 head were shipped, the in-
crease being chiefly attributed to the fact that the
closing of the American markets had closing of the American markets had caused the tario breeders to turn their attention to on-
West. The increase was taken as indication West. The increase was taken as indicative of
what might be done if Ontario breeders made an
organized effort to secure orders from the West what might be A proposed new constitution for the Associa-
tion had been drawn up and submitted to the di rectors, but as it was not entirely satisfactory to back to the executive. Col. D. McCrae explatined Association to matters of pedigree registration, in-
stead of allowing scope for dealing with wider in stead of allowing scope for dealing with wider in
terests affecting sheep-breeding over the country of business age, has removed from the activities and yenerous personality. He was essentially
what is called a self--1uade man. He was born
in Fulinhurch in 1854, and entered the Redpath Sugar Works, in Montreal, and later became the head of the firm, he held at the time of his death. He was one of Nova Scotia coal mines, and the Drummond colwas a generous but discriminating patron of the fine arts, and of charitable institutions. He for Incurables, and was a trustee of the Victorian Senate by the Marquis of Lolled to the Canadian General and was created a Knight by the King on
His Majesty's hirthday, in 9004 in of valuable services rendered to Canada in many
wavs. sons. Sir feorse west known to the thens stock-breedcrs of ('anada as owner of IIuntlywood
Farm, at Beaconsfield, Que., where he maintained a beantiful summer home splendid herds of Shortdown sheep, representatives of which were under superintendent, successful winners of first-class
honors at leading exhibitions in (ilson, farm United States, the grand championship at the breed having heen four vears in succession of any
a Southdown from the Huntlywood flock. Fine specimens of his shorthorns were in the sale list

Dominion Sheep-breeders' Meet ing.
A more cheeriful-looking body of men were wel-
comed to the annual meting of the Ilominion Shed to the annual meeting of the Dominion
Whitelaw than Association by President Andrew virtual reopening of the Ancerican market for antine, had removed a black cloud from the sheepcharacterized ly, all its old-time hopefulness. was ford, Dominion Livestock Commissioner, for his ellorts in securing the removal of this quarantine.
as well as holding sales in Eastern and Western
Cannth report of the directors indicated that the financi $\$ 2,551.07$ : out of this amount there is chargel
actainst the Association $\$ 488.65$. Allowing about
$\$ 1$. $\$ 1,500$ for the printing of the Sheep Record, the
balance remaining for distribution among the
sherp-brecders of sheep-breeders of the various 1rovinces is about
$\$ 600$ Registrations last year numbered 2,572 : $1,(647$ for Ontario, 29 for Manitoba, 20 for Sas-
katchewan, 129 for Alberta. 50 for lritish lumbia, Gien for Quebece 28 for New 13runswick. 'o The statement by breeds is as iollows: Cotswolds,
233,1 incolns, 38 , 1 年icesters, 754 ()xfords: set Horns, $25 ;$ Hampshires, 33 : Sufolks, 68. hiefly between Ontarion and (quebech with is divided chiefly betwoen Ontario and (2uebec, with 120 from
the former Province. and 114 from the lattw
$\qquad$ Wisc rommended that the $\$ 600$ profits be divided
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february 10, 1910
THE FARMER'S ADVOCATE
serve, John Orr, Galt. Lincolns-J, T. Gibson,
Denfield. Oxfords-Prof. ©. E. Na, \&iuelph; re
serve, J. E. Cousins, Harrision. Hainphiphes and The Walker-Gunn Sale
serve, Prof. G. E. Day, Guelph; Prof. H. S.
Arkell, Leet, Mantua, Ohio, reserve, F. Klien
-J. H. Ie. . Med
heintz, Medicine, Wis. Dorsets-John Campbell heinta, rvile reserve, John Jackson, Abingdu
Woonvile
shropshires-H. N. Gibson, Millbrook, N Y
 Beates
Western Fair, London.-Cotswolds-S. 1 nlson
Alloa; Robt. Vance, Ida. Leicesters-Wm. Iouglas Allog; Rod. reserve, H. H. Jeffs, Bond Head. Lin
Tuscarora,
colns-Herbert Lee, Highate. Oxfords.J. Fi, Counsin, Harriston: reserve. J. E. Birdsall, Bird
sall. Hamphires and Suffolks-F. C. 1siggs, West
 $\begin{array}{lll}\text { Brantford; reserve, J. M. (Sardhouse, } & \text { Weston } \\ \text { Shrophires-J. Shields, Caistorville; } & \text { reserve, } \\ \text { Geo. Hindmarsh, Ailsa Craig. } \\ \text { Central Canada. Ottawa.-Lincolns-I eonard }\end{array}$ Central Canada, Ottawa--Lincolns-Leonard
Parkinsom, Framosa. Oxfords-W. A. Tolton Walkerton. Shropshires-1) A. Hanmer, Burford
reserve, Geo. Hindmarsh, Ailsa (Craig. Ontario Provincial Winter Fair, (Guelph.-Lei-
ceisters-Jes. Douglas, Caledonia. Lincolns-Jno.
Gardouse, Highfield. Oxords-.J. E. Cousins,
Harriston. Shropshires-J, C. Duncan, Orchard Harriston. Shropshires-. Beattie. Wilton Grove.
Park, N. Yeserve, W. H. Beancer
International Live-stock Fxposition, Chicago.1.e.cester
Ino. Or
fuuelph:

Ontario Sheep-breeders' Association.

> Experimental sheep flocks in Ontario, made pos
sible through the financial co-operation of the
Provincial Department of Agriculture, was rendered at the annual mecting of the Ontario Sheep
breeders' Association by Lieut.-Col. R. McEwen
$\qquad$
$\qquad$ that the committee had been very strict in carry
ing out the instructions of the association as
the selection of ewes and rams, Election of off
cers resulted as follows: 1resident, Geo. Telfe
Vice-President, John Camperl: Secretary. A. Vice-President, John Campbell; Secretary, A. P',
Westervelt, Toronto; Executive Committe, the
above, with I. \&. Hanmer and Jos. Douglas.
Delegates to abole, with I. Manmer and Jos, Nouglas
Delegates to the various iair boards were named
as follows: Represumtative to the Canadia as Rolows: Representative to the Canadia
National, Coo. Telfer; to the Western Fair, Jas
Snell, of Clinton, and J no. Kelly, of Shakespeare
Central Cond Central Canada, Jas. Underhill, of Claremont.
Considerable discussion took place as to th time when the association would recommend that
sheep-judging be done at Toronto. sheep-judging be done at Toronto. It was firs
proposed to ask that the judging be concluded
Tuesday of the second week of the fair, but th amendment, which carried, requested that the judg.
ing be commenced by Friday aiternoon, one o'clock
the first week of th. show, and ho soon as possible.

Muzzle the Dogs
Following a conference in Toronto of the Do
minnion Veterinary Director-General with the Pro
vincial Health Officur
incial Health Officer, it is announced from Ottawa
minion Dopartment of Agriculture, directing that,
as rabies is known to exist in many widel
separated parts of Wistern Ontario, all dogs in
that part of the Province 1ying west of the eastern
houndaries of York and
curely chained in an outhouse or orther building, or
kept under lock and key, or else kept constantly
muzzled with effection
muzzled with effective metallic muzzles in a man-
ner satisfactory to the veterinary inspectors of
the Department
the Department. In any municipality where rabies
is nown actually to cxist the muzzing privilege
may be withdrawn, in which cuse all dogs must be
detained or isol may be withdrawn, in which case all dogs must be
detained or isolated , by being clained or kept under
lock and key. For infingement of the regulation.
a maxime
a maximum fine of $\$ 2001$ may be imposed under the
Federal act, and under the Provincial Health Act
a fre of $\$ 20$ for pach
a free of $\$ 20$ for each infraction of amy regulation
of the Provincial Health Moard may be exacted.

Guelph
Orestation
Arkel
Arkell, forming th. wat of land in the vicinity of
ing the city its prosent water suppl. springs giv-
of the land it
reater area it is said. well roforest itself, hut the sent out was 183, as follows: Horses, 25; cattle

Park-like scheme of drives will whe laill out in
as. Snell:
H. Hard-

THE FARMER'S ADVOCATE


Montreal

IMPERIAL BANI OF CANADA chartiered 1875

Capital Authorized, $\quad \$ 10,000,0000$
Capital Paid Up Capital Paid UP 5,000,0000
SAVINGS DEPARTMENT
paid at highest current. Interes date of depos
Farmers' sale notes discounted
Branches throughout the $\mathrm{D}_{0}$.
minion of Canada.


Chicago

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\$ 8 ; \text { cons } \\
\text { to } \$ 6 \text {; bula }
\end{gathered}
$$

heifers, $\$ 3.40$ to $\$ 8$; com $\$ 6$ bulle
$\qquad$ light, $\$ 8.35$ to
Co $\$ 8.50$, piga
sales, $\$ 8.35$ to

Buffalo.
mixixd and Yorkers, 88.85
$\$ 8.80$ to $\$ 8.90$; rougbs

Bnitish Cattle Markets.




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is a delicious and fragrant blend of the finest Ceylon Tea． Get a package from your grocer and enjoy its excellent qualitiea．


The Economy of居11世纸 \％ Children＇s Dresses A mother never bestind A mother never bestowed more care garments for girls，than will be found in＂Duchess＂Brand Children＇s Dresses．
They
tifully made through stylish－beau－ Serge Cashmere maghout－in Tweed， Berge，Cashmere and other fine fabrics bare materials would cost in the reliable store．Every garment guaranteed by maker and dealer．
Sive yourself so much horme seming，
 not handle them，write
monlap manufacturing co．
－mortier



## CALDWELL＇S MEAL <br> Non－medicated

For Cattle，Horses，Sheep and Hogs，
A．C．CALD
PRICE，FREIGHT PREPAID，$\$ 3400$ PRONTO，ONT．




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mour＇s ilite－（Ceo．T．Ancell

The＂Farmer＇s Advocate Fashions．

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& 6517 \text { Girls Costume, } \\
& 6 \text { to } 12 \text { years. }
\end{aligned}
$$

Our English Letter

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\begin{aligned}
& \text { ve of the election. } \begin{array}{c}
\text { almost the very } \\
\text { By Monday, the }
\end{array} \\
& \begin{array}{l}
\text { Will of January, at By Monday, the } \\
\text { have been forme } \\
\text { formally } 169 \text { seats }
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& \text { esults, which cannot fail to interpret } \\
& \begin{array}{l}
\text { Me very deepest import, not to be of } \\
\text { Motheriand alone, nor only the }
\end{array} \\
& \begin{array}{l}
\text { Britain over seas, nor only to Great to those other } \\
\text { countries which }
\end{array} \\
& \begin{array}{l}
\text { cossly awaiting the issues of as be beath- } \\
\text { onflict as we }
\end{array} \\
& \begin{array}{l}
\text { In my quiet nook, between the wide } \\
\text { expanse of sea in front and the broad }
\end{array} \\
& \begin{array}{l}
\text { expanse of sea in front and the wrode } \\
\text { moorlands of grand grand old Devonshir }
\end{array}
\end{aligned}
$$



Ferruary 10． 1910
Buying A Piano Made Easy
Perhaps you are deterred
from enioying the delight from enjoying the delights of in your home，by the though of laying out several hundred dollars in a lump sum．
This is unnecessary．
By our unique plan，you
gain the piano of your choice gain the piano of
by easy paymen


New Scale Williams
PIANOS


ACure for Eczema


Hunatecs of ba

OUR HOM TREATMENT

## Yatall eftecive in

OUR CURE FOR ACNE



SUPERFLUOUS HAIR

 Miscotr dermatological institut
6icollege St．Toronto Pease Remember to Mention＂The
improving the shining hour ＂l＇m all right，＂said the little shoe
maker on whom I paid my next call
CYou cun You can put me down for，＂olly．
was anxious to help，and on loking over my cards suggs．sted that I could
finish the ivllage in an hour，and the
baker would then
 tweeds was training a spaniel in a
lane as s returned from sone distant
cotanges．He was kind enourh to
 thinking 1 would improve the shining
hour He admitted that he had，and we
wee soon dep in discussion．I could
not teel that inder made much impres．
sion，however，and he showed not feel that 1 made much impres－
sion，ho wever，and he showed a tend－
sency to branco of int golf，dances，
nad tutuan acounintoncos and mutual accuaintances we found
we hat in l．ondonin we were sitting
amicably on a stile comparing im． pressions of Nice and Monte Carlo
when a shout from the Mond made when a shout from the road made me
almost tose my balance．
lithe baker hy pel The baker had pulled up and wanted
to know if I was the young womann
who wanted a lift to Finborough ？＂ who wated a lift to Foubg woman
My tweed－lad friend and I parted on the most friendly terms，after he
had helped me to climb up among the Ioaves and flour bags．
＂I thought you were for Mr．Jones，＂ observed the baker suspiciously，when
was settled by his sid？ ＂So I am．＂like it．That young
＂Don＇t look lom
nork it tho eldect spark is the eldest son of Mr．Robin－
son the rival candidate）They ilive
sot the big house over there，and he＇s at the big house over there，and he＇s
making a speech to－night at the
at，the
 I Pelt somewhat crestrallen，and
tried to remember what I said to the
charming stranger． charming stranger．
AN OBJECT LESSON WITH OYS．
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$


Le Chien D＇or．）

A Canadian Historical Romance． Copydight，1897，by L．C．Page \＆Ce．（IDc．）
 Gurrent Events

Mr．George H．Gooderham has been
reelected President of the Industrial ers was launched on February 9tin， It has been announced by Hon．G．
P．Graham，in the annual railway budget，that the Hudson＇s Bay Rail
way will be begun during the sum－

Mr．Alfred L．Burt，of Toronto
University，has been awarded a
membered by many as the pianist at

Sir Wilfrid Laurier last week out－
lined，in a speech before the Dominion House，the policy of the Governmen
dian navy．It will，he stated，act in
co－operation with the navy of the
navy of the
be under con－

THE object of all expert bakers and cooks is to make a pure white loaf And this object is attained by the use of
PURITY FLOUR

Purity is a hard－wheat flour of decidedly superior whiteness．It bakes into a pure white loaf．So，you see，to get the really beauti－ ful white loaf you must use PURITY hard－wheat
 hard－
flour． ＇＂More Broad and bettor
bread．＂

Western Canadad Flour Millt $\mathrm{Cog}_{0}$ Lter
Mills at Winn ipeg，Brandon，Goderich


Away with mystery？

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 Ready Roofing



 the barber asphalt
等


Money in Poultry


Canadian Correspondence Colleg

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| the barber asphalt |
| iving company |
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| 5 max |
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| － |




When Writing Mention This Paper

Cake Icings If you had trouble with prepared Cake Icing, it was not Cowan'
Even a child can ice a cake perfectly, in three minutes, with Cowan's Icing. Fight delicious flavors. Sold everywhere
The Cowan Co. Limited.
Toront








 | land, No |
| :--- |
| payment. |

##   

 Fin orm For SALE-200 acres in Nichol Town






O. A. No. 21 Rarley-Prize Winning seed Guelph











Delhi Tannery Custom robe and fur ta

FARM SOLD

EN ON SALARY ${ }^{5150}$

King Separator \& Aerator

 soois, and not Le Gardeur! I have

 those hellish worts in my mouth pu
salif not
no until 11 see Le tardeul safe ! ",
Angelique endeavored frantically t.
approach Le Gardeur, and could not approach Le Gardeur, and could not,
but ac she looked heads of the people over the surging Gardeur standing up, surroundee be by
a ring of agitated men who did not a ring of agitated men who did not
appear, hovever, to threaten him
with any inum

Cook Wanted


## A. R. Goldie,

 GALT, ONTMessrs. Hickman \& Scrubu,




## POULTRY

 CEANGSOLOL








M.

## $)_{0}^{\text {LEARM To }}$ IIRDS.


oldie,
ONT.
n \& Scruby REE LIVE STOCK

Y

ferbruary 10,1910
QUESTIONS AND ANSWERS. Veterinary.

SALLANDERS
Horse has a crack in front of the hock - Ans.-Apply a little butter of antimony with a feather, once daily, for three days. After this, apply oxide-of-zinc
ointment three times daily. You will ointment three times daily. You will find it very hard and ted

URINARY TROUBLE
Horse has occasionally had difficulty in urinating for two years. He steps from side to side, passes a littue urine, then
the passage suddenly ceases, and he apthe passage suddenly ceases, does not gain in flesh. What can I give h hm to fatten him for sale? Ans.-The symptoms indicate calculi
(stones) in the bladder. These can be removed only by an operation, which is critical, and often fatal in horses.
one of these calculi becomes lodged in the one of these calculi becomes lodged in th
urethra, an operation will be necessary but it will probably be wise not eats well, the reason of his unth is probably the urinary trouble. All that I can suggest is good feed and regu-
lar exercise. 0 of course, if you sell him lar exercise. Of course, if you sell him
as a sound horse, you will probobly
ate into trouble when the purchaser discovers
the trouble.

Miscellaneous.
INTEREST-LUMP JAW 1. Is it lawtul to compute interes
quarterly on an account (interest at
per cent.), if there is per cent.
ment 2. Is it lawful to sell a bull that
affected with lump jaw for beef? N. s.
voting

1. What is the penalty for a man tak
ing the ooth and voting as owner, whe
is name cannot be found his name cannot be found on the regis
ter? 2. What is the penalty for a man tak
ng oath and voting under the full age
twenty-one years ? of twenty-one years? ENQUIRER
Ontario. Ans.-In either case, if the thing it
done knowingly, willtully, and corruptly the party is guilty of an indictable o
fence, and liable to imprisonment for any term not exceeding fourteen years.
ENGINEERING IN SASKATCHE How may one qualify for running
threshing engine Ans.-With reference to the provisions of the Steam Boilers Act in Saskatche
wan, I have to say that a Provincial
Certificate Wan, have to say that a Provincial
Certificate, qualifying the holder to oper-
ate boilers up to 40 h .-p. for a period of one year, can be granted upon receipt of
satisfactory proof that the applicant heal served one year, or three threshing sea
sons, operating plication for this grilers. A form of ap-
supplied hy of certificate is Applicants who bave not had reques perience, are required to serve three upon completion of this terms tineer, ali oral examination
Steam Boilers. certificates,
necessary apessary, pant
ang
engineering boilers. T
For Provisi
ond ond-class,
examinat
at thas
at then issued ty Department. and the converifion
$\qquad$ borse-power ot an engine, I may say that
this is a matter of enginerring knowled
which can Which can be ohtained from any author
ity on that sulhject.

THE FARMEER'S ADVOGATE

## "RUBEROID" ROOFING

trade mark rigistered

has borne the TEST OF TIME

THE PIONEER and its

ARMY OF IMITATORS stive vainly to make the RUBEROID GUM


Pronounce it RUE-BER. OID

Time is the TEST THAT TELLS PREPARED ROOFING Our imitators market SO-CALLED" RUBBER roofings. Do not be deceived. Ruberoid contains
NO RUBBER It contains no tar. It is not an Asphalt Roofing.

The Genuine bears fac-simile of the RUBEROID MAN on the outside wrapper, and the word RUBER ID is stamped every few feet on the underside of the Roofing. GET OUR FREE BOOK, which tells you all about Roofing, fairly, frankly and honestly. WRITE TO-DAY. Dealers everywhere. THE STANDARD PAINT CO. OF CANADA, LImited, Manufacturers: 286 st . James Street, MONTREAL.

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ShenlockManning Mannins 20th Century Piano. This is very brilliant, with a sus taining power little short of marvellous. It is a scale expert

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THE BEVERAGE FOR ALL WEATHERS. "Epps's" Excellence $\subset \subset$ drink in ome.

Crateful A cup of "Epps's" at breakfast Warms and Sustains Cor hours. As a supper beverage it is perfect. Comflla

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The easiest-running pump ever made. The wonde
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The pump for the orchard that is too large for a hand mp and too small for a power-pump

The man who operates the MAGIC PUMP gause. The one-half the pressure indicated on the in effective spraving does the rest. Pressure is important
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For descriptive catalogue of this and power pumps,
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NIAGARA BRAND LIME-SULPHUR SPRAY made in canada.
The famous spray of the Pacific Coast, which has mat possible the production of a cleam, perfect and marketabl BECAUSE:-It is proply made.
BECAUSE :-It is properly made.
-Cooked so as to retain permanently its strength, - tis not a mere wash or mixture, but a perfect
solution of Insecticidal and funsicidal power It is always ready for use
When NIAGARA is used thoroughly a clean This means prices, profits
rite for our Spray Book and prices.

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with a Phosphatic and Nitrogenous Fertilizer. Potash this year in conjunction Potash is an Absolutely Essential Plant Food, and may be obtained from al
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## Agents Wanted!

THE FARMER'S ADVOCATE AND HOME MAGAZINE

The Farmer's Advocate, London, Ont

## 4

QUESTIONS AND ANSWERS. Miscellaneous. poland-china pigs wanted We have a request trom a subscriber
who wishes who wishes to purchase Poland - China
pigs.
Breeders hating Polundeh pins. Breeders having Poland-Chinans sor
sale will for find it to their advantage to
advertion advertise them in Ther Farver's Aavo

## raising the rent



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\begin{aligned}
& \text { FERTILIZER APPLIED D HILLS } \\
& \text { FRA CORN. IN HIL }
\end{aligned}
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NIAGARA BRAND SPRAY CO'Y, Limited, Burlington, Ontario. NIAGARA SPRAYS ARE ALSO MADE BY:
Oregon Spray Co


ferrrart 10, 1910
gossip.
An etatabishment that is creating soo intrest in Leerds County and the vicimit of Arthur C . Harrs, of Brockilie. T Proer ago, and builiding began the fir
yon of Jume last, since which time a coi ereceded. The farm, whilidings have beer road, and about two miles west o
Brockville, comprises almost block of about one hundred a sqd fifteen acres, all cleared, except five acres. Last
fall, Mr. Harly purchased an addition. clear block of forty acres Iying along
side, and firty acres on the side, and firty acres on the opposite side
of the road, composed of meadow, orchan and worked land. The new buildings con
sist of new main barn, which is a plank frame structure, 70 by which is a plank
high, having a stone baseme 50 fe to the west, 50 by 37 basement. An ith large sto
to the
age-room above, forms the cowe - bar Other buildings completed are hog p
and henhouse, each 40 feet in lengt drive-house, manager's house, and a
other dwelling, the whole making a very complete and compact set of building
They are all equipped with every co
venience The south end of hasement venience. with acc
$\qquad$ and the engine there runs alongside ba consisting of a full creamery plant, with steam pipes for sterilizing. All build ings have concreto floors, and runnin
water supplied from a rock well, and dis.
ributed by ributed by compressed-air tank situate
n dairy. The barns arc and Neatty litter and feed carre equipsped the track
runs out of the doors on a contian wagon, where, atter being carried tumped, it g all treed has a southern exposure, and has bee
oncreted. The barns and stables he om 8 to 9 feet head room, and are all cleanliness. Ample lighting facilitio are given, and, in fact, every precautio
has been taken in all parts to insure th
nost sanitory ost sanitary conditions under all cir
onstances. This includes, of course, a nitherford system, not and part on
completed. completed. Of the first block
$\qquad$
$\qquad$
$\qquad$ eeding of Holstcins, and the foundation
a good herd has already been laid the head of the herd is a been laid
bull, Prince Hengerveld Peition
$\qquad$

## They Pass the British Govermment's Acid Test for Galvanizing

## Do you know that PRESTON Safe- Lock Shingles are the ACID TEST This Acla Test is more severe on the galvanizing than twenty years

 The galvanizing must be gavanizing than twenty years or caadian weather. You see, sheet steel ga隹 Government Specifications for GalvanThe British Government is the most particular buyer in the world. The sheet
metal it buys for public works must be
made and galvanized far better than or Iinary sheet metal.
Each sheet must be carefully sheared to exad dimensions, thoroughly cleaned,
and afterwards galvanized with best Virgin Spelter, which must consist of not Less than o8 per cent. pure zinc Extra rom British Government Specifications. ize of a PRESTON Shingle before it is
salvanized with 98 per cent. pure zinc In this way even the edges are thoroughly alvanized. coated with zinc. - Ex. from B. G.S Ordinary galvanized sheets are

a lower and correct temperature kep sheets thus become very heavily coated. and even.
The sheets must stand bending without cracking the galvanizing. - Ex. from $B$ Shingss the steel sheets for PRESTON Specifications not only would the galvanour top lock is folded to produce three

vanized according to British Gove Specifications is galvanized to last. PRESTON Shingles are good for twice the ser of ordinary galvanized shingles. The construction of PRESTON Safe
Lock Shingles is far ahead of all others. Other shingles merely slip or slide toOther shingles merely slip or slide to-
gether at the sides and are oasilly pulled apart. PRESTON Shingles are securely locked together at the sides on the
principle of the "sallor's grip." The principle of the "sailor's grip." The
heavier the strain, the firmer the grip. The top lock of PRESTON Shingles TWICE as strong as our wonderfully The top of the shingle is where the
greatest strain falls. PRESTON Safe-
Lock Shingles have a top lock consisting of three thicknesses of sheet steel, so that they can easily withstand the straln due to shrinking of sheeting or settling
No other shingles can have such a top
lock, because this feature is patented by lock, because this feature is patented b
us. The top lock of most shingles isn as strong as the side lock of ours. Lightning causes the loss of thousands
of dollars each year to Canadian farmers With every PRESTON roof you get a
FREE Lightning Guarantee which secures you against this terrible destroyer. antee with other shingles. Neither do yo get shingles safe-locked on all four sides. Nor shingles with the nalling fully pro gles made according to British Govern ment Specifications. Nor shingles so We have just issued a new booklet "Truth About Roofing." We should charge something for this, as it con-
talns information of real value to any one who has a bullding to roof. But we will send it FREE as a reward to all who
cut out, fill in and mall the coupon to us. METAL SHINGLE AND SIDING CO., LIMITED ead Office, Queen Street Factory. Branch Office and Factory, Montreal, Que.

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Invest Your Money Safely at 4\%
Think twice before your risk your hard-earned savings in mining Better be safe than sorry. Our $4 \%$ Debentures are an absolutely safe investment.
Interest half-yearly. $\$ 2$, ooo, 0 oo assets as security.

## SEED POTATOES

A Change of Seed is Always Advantageous.

W. P. NILES, WELLINGTON, ONTARIO

Grower of Seed Peas, Beans, Potatoes, Oats and Barley

For Sale: 100,000 Apple Trees
 THOS.W. BOWMAN \& SON CO., LIMITED Ridsevilie. Ontarie Glen Maple Aberdeen - Angus E A. \& G. S. Mcintosh, Seaforth, Ont
When Writing Mention The Advocate


Wednesday, February 16, 1910 AT SUNNY ACRES FARM, SITUATED THREE MILES EAST OF
OAKWOOD, AND FIVE MILES WEST OF LINDSAY. OAKWOOD, AND FIVE MILES WEST OF LINDSAY. Stn., G. T. R., on morning of sale. Morning trom east and west at Mariposa
north will be met at Stn., G. T. R., on morning of sale. Morning train from north will be met at
Cambray Stn., G. T. R. The herd consists of several popular families and
individuals of high-class type and individuals of high-class type and quality. They have been winners at the
local shows, and some of them, if fitted, would make good material for any
show sbow. Three-fourths of the number are eligible for American registration


| GEO. JACKSON, | Wm. Channon $\mathcal{C}$ Son |
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| AUCTIONEER. | 0akwood, Ontario |

DISPERSION SALE

## 40 Head Holstein - Friesian Cattle

AT MADOC, MARCH 25t. 1910
Including the great bull, Sara Jewel Hengerveld's son, whose dam has an The only cow in Canada that ever produced in official test ioo lbs. milk in day. All females old enough are bred to this great bull, and by the time of March 1. Positively no 20 calves sired by him. Catalogues will be ready
J. A. Caskey, Madoc, Ont.

| ONTARIO DEPARTMENT OF AGRICULTURE |  |
| :---: | :---: |
| PROVINCIAL AUCTION SALE <br> OF REGISTERED <br> Shorthorn and Hereford Cattle <br> WHIL BE HELI AT GUELPH ON <br> Wednesday, March 2nd, 1910 <br> Under the management of the GUELPH FAT-STOCK CLUB. <br> All stock inspected. Only good representatives offered. Many of the most fashionable Scotch families will be represented. <br> Freight on animals purchased by residents of Ontario and shipped to points in Ontario will be paid. <br> For catalogues and further particulars, apply to |  |
|  |  |
| JOIN'T AUCTION SALGE |  |
| Shorthorn Cattle <br> rom the herd of $\boldsymbol{R}$. \& S. NICHOISON, Sylvan. and M. K. FAIRBAIRN. Thedford at "Elmdale," <br> Tuesday, March 1st, 1910, at 1 p.m. |  |
|  |  |
| APT. T.E. ROBSON,Auctioneer. |  |

butter. Avondale farm has sixteen ma-
tured head besides these, nearly all of
the them in the Advanced Registry or Reco
of Merit, besides half a dozen calves exception
intended
be tested four and twenty-six each, so morenty
foulls, and two by twenty $\begin{array}{ll}\text { stock in looked fosix. } & \text { each, so more goo } \\ \text { of thile the dairy sild }\end{array}$ of the work is to be the chief feature o
Avondale farm, general farming is to
carried carried on, and a small flock of Horne
Dorsets is already being assembled, while
It there is a fair-sized herd of Yorkshir
swine coming on. At a later date.
Hardy Hardy hopes to put in a few registere
Clydessales, but, as the farm is largel done until other branches are thoroughi on at Avondale farm shall be carritd shall be raised, and in the fattle cass sto
business that it
go grac. whd will take its place among
the very best herds in this count On March 1 st, as advertised in th
issue, R. \&,$~$ Nisholson, Sylvan,
H. K. Fairbairn, Thedto H. K. Fairbairn, Thedford, will sell
auction, at Elmdale, about thirty head
Shorthorns. Amongst the bulls (a
yearlings) is Rosalind's Prince, sired
Royal Prince
Sensational heifers, Fair the sire of th
suern Queen's Ideal, the former three times gran
champion feraale at Chicago, the latt
winin winning three firsts. and one grand chan
pionship at Toronto. In 1905 , or thr
animals, the get of one sire, at Toront
the firct prize Royal Prince. For two animals, th
produce of one cow, the first prize at the
same place was awarded to the get a
the sime the same bull. Rosalind's Prince is a a few days over age for a being then only
anothe
good one is Golden Kuight.
Prince Prince, dam Golden Queen, by Imy
Scotchman 40420 Imat



 Pineapple 6th, imported by H. Cargill
Som The two top crossse are Imp
Chief of stams, and Spicy count (imp
These arn two extra-kood heifors Theme
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TRADE TOPIC

$y$SeldomSee
 ABSORBINE

 STONE AND STUMP PULLERS NE Wall four and a balf feet high. Also
NETENTT SNOW PLOW, C. LEMIRE, For full paraticular writem when snow
WOTTON, QUEBEC
febriant 10, 1910
THE FARMER'S ADVOCATE


THIS IS A REAR VIEW

## The Humane Horse Collar

SOMETHING no thoughtful farmer can afford to be without at least
NE, if he owns one pair of horses, or TWO if he owns more. Now, why? you ask. FIRST, because owing to the high price of horses, and all products
raised on the farm this year, above all others. It is absolutely essential from a monetary standpoint that the horse should be kept well and busy. THF
HUMANE COLLAR is the only one made to-day that is guaranteed to d this. If your horse should be idle for one day, it will more than pay for the
collar, but when he gets sore shoulders it takes more than one day to cure him.
SOLD BY OVER 5,000 HARNESS DEALERS. has 40 suare inches of pulling surface to to io inches on the oldstylye collar: The puling is all done where the shoulder is the strongest, and where in
best protected hy heavy layers of muscles. No sinding from one shouldé to the other. NO pressure on top of the neek. swoenot sweat pads to chafe the borse. NO choking on going पu hill No sweenied doreses,
thouldero or necke w with THE HUMANE HORSE COLLAR.
 Wrie today for free catalogue desesbing and giving testimonials, then
order one from your dealer tor the spring work. If he cannot supply you,

The Whipple Horse Collar Co., Limited, hamliton, canada.

## 22 Imp. Clydesdale Stallions



Just landed, ages from 2 to 5 years old.
A number of them are premium horses. A number of them are premium horses.
Several are over the ton, or will make it. A number of them are grandsons of
Baron's Pride. All are for sale. Prices are reasonable. Intending purchasers
will find it to their interest to see these horses before purchasing. Farm two
0. SORBY, Guelph, Ont.
 STONEHOUSE AYRSHIRES Hector Gordon, of Howick, Que., owne
of the well-known Stonehouse herd imported Ayrshire cattle, whose reputa
tion as a high-class herd of show anito none in the country, is now offering eight young bulls, four of which are
yearlings, and four calves, a rare nice Iot, bred most richly, and very desirable
as herd-headers. Also a number of twi and three-year-old heifers, most of then
in milk, of a kind that will increase hank account of their fortunate purchas
ers. Write Mr. Gordon for prices, as
this class of stuff is nll too

TROUT RUN AYRSHIRES For seventeen years the Trout Run her of Ayrshires have been bred on that now
noted farm without a break, the propert noted farm without a break, the property
of Wm. Thorn, of Lynedoch, Ont., whose energies during all these years have been centered on the improvement of the pro careful and systematic daily weighing o each cow's milk, and a vigorous weeding-
out process of all not reaching a proftable standard, his herd to splendid example of what can be done along those lines, totaling 40 head, sev-
eral of which are imported imported in dam, nearly all, the others
with imported sire and dam.
 is Mr. Thorn's $\begin{aligned} & \text { Rtandard, deved and } \\ & \text { cow } \\ & \text { reached in nearly every case. Snowdrop }\end{aligned}$ of Montebello is one of the great cowe
of the country; she has reached 65 lbs . in one day. White Flos is another won-
derful type of the great producers; she cent. At the head of this great herd is credit as winnings, secund at Toronto and first at London as a yearling, his
yet being exceptionally uniform and tru got teing exceptionaly uniform and true
to type. On hand, for sale, are three
young bulls, one of them out of a 45 lbs.-a-day imported cow, and all by the
stock bull. Mr. Thorn is also offering milk, a a well oo a number of heifer
calves; a most desirable lot, to either strengthen or found a herd. He has also
for sale about 20 Toulouse geese of both

## TRADE TOPIC.

buying wire fence.-The grea enemy to long ine in a wre fence is rust
Fxamine some fences, and you'll find that
in most cases rust is the cause of break downs. The galvanizing on a wire fence
should protect it from rust. It will de it it it is the right kind of galvanizing.
The Banwell Hoxie Wire Fence Co., Ltd makers of Peerless Fence, believe that
their fence will last longer than any other fence made. They believe this
because they have put the wire to the most severe tests, and it has stood them
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ofeticial reond OFFICIAL RECORDS
CEMBER. 1909

 Son, Millgrove, ont. by D. C. Flatt \&
Belle Dewdrop (4083), at 8 years 1


 Annit Weoto Mink Meredese (4231, at at
7 years 6 months 2 days of age: 15.93

 years 7 months 9 days of agee 11.92 lbs
butter-fat, equivalent to 18.58 lbs. but ter; 496.9 lbs. milk. Owned by M. L.
Haley, Springford Iolena Albino Wayne (6143), at 5 years
6 days of age: 14.88 lbs. butter-fat, equivalent to 17.34 lbs. butter: 406.9 los.
milk.
Owned by Walburn Rivers, FolNatoye De Kol 4th (10978), thirty-day
record, at 5 years 9 months 8 days ot ot
 Owned by J. W. Stewart, Lyn, Ont.
Inanthe Jewel Mechthilde 3rd (5530), at
 butter, 458.11 1. Is., milk. Owned by M
L. Haley. Springtord. Ont. Elloree (6959), at 4 years 2 months ${ }^{3}$
days of age: 17.40 lbs, butter-Aat, equiva lent to $20.30 \mathrm{lbs}$. butter; 400.3 ibs. milk.
Owned by Jas. Rettie. Now Lina Netherland Abbekerk (12158), at
4 vears 11 months 20 days of age: 15.37 Ibs. butter-fat, equivalens to 17.94 ibs.
buttert 571.43 lbs. milk. 0 owned by Bollert, Cassel, Ont.
Pudmina
Hartog De 4 years 5 months 11 days of agee 14.88
lise. butter-fat, equivalent to 17.13 ibs. butter; 413.8 Ibs. mille. ${ }^{2}$ Owned by $H$ Queen $\begin{gathered}\text { Butter Baroness } \\ \text { ( } 76652 \text { ), at } \\ \text { years } \\ 2\end{gathered}$ months 18 days of age: 18.93
 Annie May Schulling ( 8092 ), at 8 years ter-fat, equivalent to 16.03 les. butere;
389.7 1bs. milk.
Owned by Frank . Grifitn, Burgessilie o Ont.
Jennie Mutual Butter Girl (7080), at 3 years 7 months 12 days of age: 13.00
lbs. butter-fat, equivalent to 15.17 ibs butter; 462.4 lbs. milk. Owned by Thos
Davidson. Spring Valley, Ont Davidson, Spring Valley, Ont.
Jewel Mercena Mercedee ( 8047 ), at Years 2 montha 29 dans of agee 12.97 Ibs.
butter-fat, equivalent to 15.25 1bs. butter; 372.6 1bs. milk.

 Daisy De Kol Wayne (7277), at 3 yeara 11 months 18 days of age: 12.63 五s.
butter-at, equivalent to 14.74 lbs. butter; 369.2 lbs. milk. Owned by Walburn Calamity Posch Wayne (7177), at 38
years 11 monthe 19 days of age: 14.148 butter: 350.1 lbs . milk. 0 wned by Wal
burn River Pietertse Poom 2nd (7997), at 8 years
2 months 27 days of age: 10.98 lhe yut ter-fat, equivalent to 12.82 lis. butter;
804.88 Ibs. milk.
Owned by Jas, RetOie. ${ }^{\text {Ontario Matd } 2 \text { nd ( } 7518 \text { ), at } 3 \text { yoars } 4}$ fat, equivalent to 12.75 lbs . butter: 354.0
 monch equivalent to 14.98 lbs. butter to.
Belle Dewdrop 5 th (8514), at 2 years
5 months 29 days of age: 11.86 lbs. but-
ter-fat. equivalnent. to age 13.49 lbs . butter;
849.08 lys. milik.
Thirty-day record at 2 years 5 months

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 "Uncle James," said a city young lady
who was syending ${ }_{a}$ few days in the country,
Brahmin ? "he's a Leghorn.". "Nhy, "Why. Certainly, to stupid of me
his ankles."

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AYRSHIRE RECORD-OF-PEIFFORMDuring last year the Secretary of th from the Dominion Department occive culture the Certificates of 29 cows heifers that registered during 1909. This makes 70 cows and heiters qualified, and to whose owners certificates and diplomas have been granted Nearly two hundred cows and heiters have been entered in this test during 1909 The following are the results of the tes or 1909:  per cent. fat $3.90 ;$ bros., milk 13,536; 1bs fat 529 .


 Bertie of Springhill - 8736 -, ownerRobert Hunter \& Sons, Maxville, Ont
per cent fat per cent fat 3.66; 1bs. milk 10,448; 1bs. Nellie Gray of Hickory Hill - 15332 Swner. Dyment, Clappison, Ont.; per 402.88; 330 days. ${ }^{\text {Barton Princess - } 9273-\text { - owner }}$ Turner, Ryckman's Corners, Ont.; per
cent. fat 4.00; 1bs. milk 9,580; 1bs. fat
381.35. 331 day Little Queen 2nd -9239-; owner, A. Wells \& Son, Sardis, B. C.; per cent. fat
$4.00 ;$ lbs. milk 9,397 ; lbs. fat 375.44 B10 days.
White Heather 16978; owner, James Begg. St. Thomas, Ont.; per cent. fat
3.82; lbs. milk 9,501; 1bs. fat 363.50 . Nellie's Jewel -16871-; owner, James Begg, St. Thomas, Ont.; per cent. fat
4.34; lbs. milk 9,093; Ibs. fat 394.60. W. Ballantynese, Stratford, Ont.; per cent fat 4.06:
354 day Four-year-old Class.
$\begin{gathered}\text { Snowflake of Hickory Hill -23481-; } \\ \text { owner, N. Nyment, Clappison, Ont.; per }\end{gathered}$ cwner, N. Nyment, Clappison, Ont.; per
cent. fat 3.95: Ibs. milk 9,182; lbs. fat
B62.41; 365 days. Lady Menie $-18727-$ - owner, Wm
Stewart \& Son, Menie, Ont.; per cent fat 3.72; llbs. millk 8,005 ; lbs. lat 297.80 ${ }^{364}$ days. Three-year-old Class.

$\qquad$ Nor. W. H. Tran, Cedar Grove, Ont.
Rer cent. fat 3.94; 1bs. milk, 9, 933 ; lbs. at 360.32; 361 days.
Dairy Queen of Springhill - $33743-1$ wner, R. Hunter \& Sons, Maxville, Ont.
per cent. fat 4.13; lbs. milk 8,023; 1bs.
t 331.85 .320 . fat 331.85 ; 328 days.
Isaleigh Nancy 1 st $-20525-$;- owner, Greenshields, Danville, Que.; per cen
Cat 3.83; 1los. milk 8.184 : 1 bs . fat 316.1 g 288 days.
Beauty owner, W. H. Tran, Cedar Grove, Ont.
per cent. fat 4.62; bs. milk 7,677 ; 1bs
Pat 354.47 . 327 days. Miss Orlia -20098-; owner, Gus. A angelicr, mar Rouge, Que, ; per cent. fat
4.65; 1hs. milk 7,158 ; lbs. fat 333.33 ; 36

Jemima of Springbank $-27689-$ ow
C. A. S . Turner, Ryckman's Corner
r. A. S. Turner, Ryckman's Corners
Ont.; per cent. fat 4.47 ; lbs. milk 8,83 , Bessie 16th of Neidpath -21468owner. W. W. Ballantyne, Stratford, Ont.
per cent. fat 4.34; lbs. milk 7,625 ; 1bs at 830.78; 358 days.
Sybella of Springbank $-27691-$ owne A. S. Turner, Ryckman's Corners, Ont. per 302.24; 226 days. Begg, St. Thomas, Ont.; per cent. fa 4.10; lbs. milk 7,135 ; lbs. fat 292.96
365 days. Andyne Carntyne -26349-: owner, R
Hunter \& Sons Maxville Ont. per cent fat 4.45; 1bs. milk 7.019; lbs. fat 312.93 Daisy of Westland -21799-; owner Daisy of Westland -21799-; owner
Cus. A. Langelier, Cap Rouge. Que.; pe
cent. fat 4.55 ; 1bs. milk 6,950; 1bs. fat 16.77; 355 days.

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any of which are in ide herd, very wany of which are in the Record of
prmance, the milk yields of a few 12,000 Ibs. per year; Findlayson Maggio
imp.), 10,975 lbs. milk and 528 lbs. but. ter-fat, as a four-year-old; Culcaigairn
Bonnie Jean, 7o lis. a day, Barcheskie
Lucky (irl (imp.), 8,965 a two-year-old; (a daughter of hears,

 day at four years of regerd of 64
Those
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Which privig up to
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te Seattle Fxhilition they won ten out mossible firteen first won ten out
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## BIGGER CROPS - BETTER GRAIN MORE MONEY

## IS THAT WHAT YOU WANT?

LKE lots of other farmers at this time of the year, you are thinking of buying either a Disc
or a Hoe Drill. Read this advertisement this Cockshutt Disc Drill-get our Drill booklet and go into this matter thoroughly, because here is a machine that will help you get better crops. carefully before you decide-study the principle of


TDrill possesses, is that it sows the grain 6 inche
apart- not 7 inches as is the usual method. (llose seeding gives the grain a better chance to germinat ain rain grows up closer and frmer-holds moisture betterdoes not mean that you have to sow more seed - you simply plant the same quantity of seed as you would with ohi depth. The space betwecth the grain hoots and disc


Read These Letters-Then Write for Booklet




[^0]:    Two-year-old Shorthorn Steer.

[^1]:    A Case of Chicken Fever and its Outcome.

