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| omy of using Herbageum, that making become a duty that every farmer owes himself. Considering the letters p ished in these columns and the "columns of other papers he true, the feeder who does not Herbageum is certainly working ery great disadvaßitage. The date, unpreiudiced man does not cor without investigation a plan advocat by other men. A test of Herbageum a simple matter. Herbageum needs scalding or cooking, and 50c. worth enough to test it on one animal. A wan is to take the least thrifty animon the farm, and feed a 50 c. package to egularly, according to directions. This rill put the feecier in a position to co |  |  |  |  |  |
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## WOOL

E. T. CAARTER

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# Farmer's <br> Che ............ and fome Nragazine. 

Vol. XXXVIII
LONDON, ONT., and WINNIPEG, MAN., JULY 15̄, 1903.

EDITORIAL

## Northwest Fruit Market.

$\qquad$ went of a great market for the orchard product of the older Provinces. The prospects for a arious 1rovinces of our great Dominion are natic conditions of our Northwestern the coliwill never be favorable to the productiontry rchard fruits on a large scale, and will likely be imited to a few of the most hardy varieties. But compenssate for this, in their that more than he very best wheat in the wormity to prodnce untities The be in the worla, and in immense standard aticie that our Northwest is displlaced by that grown innot be discounted or world. The miller of to-day cannot sell his our unless it is made from Northwest wheat, or his flour made from it, or he cannot compet have heep his trade. Certain areas in the compete and finces and British Columbia, where the conditions are favorable, produce the best orchard fruits in the world. There are, no doubt, falt to be corrected in the methods of packing narketing, but as to the question of cuality and flavor we stand pre-eminent.
And here is where an orner an exchange of conmodities between exists for sections of our country that ought to be utilized and developed. Why should Canadians send theil thoney to another country when they can get Jetter article at home? The older Provinces Hfeat-we can't do without it. And you want In fruits- they are the best in the world. Let as trade." Why not? What are the difficulties The way? Oh, the distance is great, the freights are too high, and you don't put your and so we go good shape as the Americans do thas a much deal largely with them. Your fruit that ant better llavor than theirs-we know rreight is too high," The up as well, and the tre sirrely surmoun these are difficulties that onterprising people co and arnething in the interest of interprovincial Tarle? May we not expect that with the advent the appointment of the Raines of railway, and inder consideration, the difficulties will be largewercome. The transportation question is one wi the great questions of our Dominion to-das, nest clirorts oi most earnest consideration and c. work out a satisfactory solution. The Gent rust must have fair and reasonallo the Great mick transport for their wheat to the Faster rovinces and the seaboard, and the East wants The same for the transport of their commodities ") The West. The people of Canada have to a My large extent actually built these roads, and Hopled development of the country should not be Woched by inefficient service and excessive trans-
Butation charges. nestion charges. But there still remains a
uestion to be considered, and one of vital im"Hance and which is under the control of the dividual grower and shipper, and that is the
ruit which he Guality withe buys that will correspond in high When these difficulties and they surely will-a great aurd ever-increasing volume of interprovincial trade will be developet an must certamy make for the benefit of our whole Dominion.

## Selling the Apple Crop

$\qquad$ . rept in the marketing of apples a practice princieles a based on good busines Amochles; that is, the selling of the finuit i trees.
t does not require very great business insight To see the element of chance in such a method We suyer visits the orchard, sizes up the proba he yleid, and ollers so much ior the crop. The arc usually waits until two or more offers ar With the sale accepts the one that best suits him orchurdisie of the crop the responsibility of the ar and or other stock.
There are several goorl reasons why wuch method of business should not be followed. I introduces an element of gambling in honest busi-
ness dealings. an orchard how much it is going to yield. or Whether the crop will mature at all or not tuys, the probabilities are good, but when one prolablo sells in honest business, the less of the handled and the mirre of the actual that is comod Men the industry conwould never think of placing a bet on a horse race, yet the principle is just the same and in the end either the buyer or seller makes more in less than he expected, because some chance or ovidence intervened.
Another objection to this method of disposing fruit is the indirect effect it is likely to have want uniformity in the gradines rrarketed. We fort but where an ounher bewher is found to be short in the actual vield, here is always a tendency to make un to amount by the introcduction of inferion shipated the best grades. We do not cay thar sturf into ro this intentionally, but the one afforded, and one naturally avails himself of frofiered opportunities.
Terhaps this second objection to this mothol selling apples is the strongest that atvanced, ior while the element of chance eventu ally carries with it depression, and often ruin, its dividuals, but the lack of uniformulty it in or inWrectly antects the whole export fruit trade and indirectly reflects upon the integrity of every exorter, whether of fruit, dairy products, meats Schemes of every description have not boan wante. ing of late years to secure a uniformity gatyes in the export apple trade, but it seems to remove the that the best scheme would be packing, and thus secure a uniform or dishonest fruit when the package is a opened on the Britist

The New Transcontinental Reilway.
(T) winneme moncton, N. B is minnipeg
Announcement is .nade at Ottawa that the gressimuent has decided upon the bold and pro from Monticy of constructing a line of railway and timber belt of Quebec and Ontario to win nipeg. The work of construction will be cavied on under a Governnent commission, and the road will be leased to the Grand Trunk Pacific for fity years, with running rights to other rail est ever his proposition is by all odds the great cific Raina in Canada since the Canadian Pa For thed washeh.

- rentar five years the company will pay解 the second eipts over whe the net surplus of reing forty years the expenses. For the remainthe cost of construgree to pay three per cent.
The Government will guarantee the bonds for are to construct. In the company themselves fion the guarantee will be 75 of the prairie secactual cost of consturtion, buth cont. or the $\$ 13,000$ a mile. The Government have exceed ily fixed 500 miles as the length of the mountain section, and for this distance the guarantee will maximum of $\$ 30,000$ a the actual cost up to a The rates to be charge.
the control of the Governor-ince to be subject to Railway Commission, but on the Gever or the ion of the line the rates are not to cent sec oo a figure that will prevent the compan faying the annual rental. asten the Government constructing the Pacific Cowion of the railway, the Grand Trunk $75,000,000$ to $\$ 45,000,000$. The copman an evidence of good faith, will deposit $\$ 5,000$ in the Bank of Montreal in cash or approved se in the construction possible the materials used facture. A majority of the of Canadian manuresident in Canada. Mr. C. M. Hays is the be resident of the Company, and Mr. Wainwritht of the resident. Among the directors will be one head of the great financin hord Rothschild, the Sir Charles Rivers Wilsum elora Werby Smithers.
the work beins force of men will be put on and points between the Atneusty at firteen dillerent struction will be under control of a commission uppointed by the Government, so far as the
Moncton-Winniper section modern appliances will be concerned. The most will be made to complete use the and an effort three to three and a half yone whin Gran Trunk l'acific Company are to equip the line with he no deficiencies and they undertake that there will The company have sixty survey parties out Lake present, of whom ten are working betwee Moncton is a city of some 9 gore prople, at the
head of navigation on the pation harbor the Bay of Fundy. It has a good about midway between the reant hal Railway John, N.B., and Halifax, N Ereat hartors of St runs in a south-easterly direction from Quebed City to Moncton, and there branches off to St the line is from Moncton Government portion o the line is from Moncton to Winnipeg, and from
here westward it will be. constructed by the
Grand Trunk Pacific
the Farmer's Advocate
and Home Magazine「HE

RICULTURAL DOMINION

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## 


. W. Chapman, Azent, Mowbray Hous
OHN WELD. MUR
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fifteenth of each month.
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## The Hour of Destiny Passed

 The Saturday Fvening Post, of Philadelyhia United States authorities to hold out a friendly and to Canada. The Post says their relations ith Canada overshadow the Philippine question hat confronts the RepublieThe popular Chamherlain proposition and our Yankee neighbors out foir Rightened Winkle sleep regarding the great Dominion. But like many another deathbed repentance, Uncle Sam's has come too late. Canada has put her

## Death of Mr. Thomas C. Douglas

 death, on July 8th, of Mr. T. Chronicle the saudden a prominent and successful breeder and exlititor in the hay field during the day and was in his usual good health. Going to the house aboutnine o'clock in the evening hammock on the veranda to cool off, where the dently being caused by apoplexy. Mr. Douglas was sixty years old, though his appearance would
indicate a much younger age. He was a man of fine physique, having the appearance of perfect health. ordered life. He was a public-spirited and wel gressive farmer; had sat in township and coume South Waterloo Farmers' Institute, a forcefil and acceptable speaker on agricultural topics on
the Provincial Institute staff; an enthusiastic
Sundav-school Sunday-school worker, and a man of sterling
christian character. His wife, two daughters G. L. Lamb, I'reseott County, Ont.: " I was
very much pleased to get the missing numbers of my " Farmer's Advocate " replaced a short time ago. I feel that hatw comsiderable information
about myy business at hame now, and when I have
them bound it will be convenicht too."

STOCK
 distance of the railway sites within a reasonable honor of entertaining the Royal Agricultural So ciety for 1902 actually went a-begging; no muniCarlisle seemed to care to have it, and had not what might have happened. The society say immense sums by some of its shows, partly due to excessively bad weather in one o two instances, and generally excessive expenditure ent site at Park Royal, in 1879 from the pres continuous bad weather, the loss amounted of £22,000; and at Maidstone, Kent, a few years ago, the loss was over $£ 6,000$. On the other
hand, at Cardilf in 1901 a big profit was made, hat , his, Cardill in 1901 a big profit was made, lost at Carlisle a year ago. Weather, was again all over for forty or fifty years, the Royal made a loss rather than a profit, but its heaviest losse near to London. This the camp was pitched members to view with grave apprehension many hear do Lo London. purchasing a permanent site are to be justified. So far I fear their misgivings show. Although up to the close of day of the ing week there had been a succession of deceddays before the show, the weather dried up two a succession of show opened, and there has been The show has enjoyed the patre and warmth. of quite an unusual degree. H.R.H. the is Presidentity quite a long time on Tuesday was in the yard for he returned again yesterday, and spent nearly the whole day in the yard, and returns again on Saturday, when it is hoped the London proletanoon, in addition, we had in the afternoon afterMajesties the King and Queen, with H.I.H. the Princess Victoria, and quite a small army oi
royalties; yet the board announces to-day that the total attendance of paying persons was only
inside of 13,000 . promise no better. The fact is that London does not care a rap for an agricultural show.
The display of stock is fairly good. Better shows have certainly been seen on former occaRoyal. The horses come first in the catalot hut they are by no means first in merit as a sec Ton of the show. A few good hunters lead their her, are of excellent merit. although few in numihon and mare are both got by the famous Mr. Livesey's Queen of the South, The mare is and does walk and trot we and action. She can Foms like her have been seen in our ; time. stallion championship with St. John, which re Merformor, The Harness classes contain some spichtid horses. The lovely animal, Forest "immer in his, class, but, curiously, did not get the
'hampionship. He is a magnificent stepper, and Those who like that kind of action have probably were the hest section among the horses, and dales "ome lut moderately represented. Clydes champiomstips went to gets of Baron's Pride
viz, Me. \& W. Montgomery's Baron's
Styl beaten thincorear-old filly Royal Ruby Shin are, as might have been expected, more numer
ticularly well judged by Mr. T. B. Freshney than ordinarily good display. There was a show
of drait horses in harness this forenoon. thow of drait horses in harness this forenoon; they
numbered more than a score, and included il large selection of big Shire geldings, such as on of the work on the London streets. Very fe maignificent tops and ribs. The winner, a roan of the old Fen type of Shire, is a great walker. He tiavels well and desenveally good easily. The second was a brown horse wit good ribs but very bad feet and pasterns with class, a Day horse, bred in Wales, was a first class specimen of the cart horse. He does not his pasterns, but we liked him very turh good, serviceable cart horse, with wearin as limbs and plenty of weight. Clydesdale men morses do more to keep the lorry in view. The ception of the Messir. Mo week, with the ex two-year-old colt rioht good sirst-priz horse, are too narrow and single or car beat the Shires hollow for feet and limbs, gether that a Cly without forgetting alto this connection a morse. In shipments of Clydesdales made to Canada good week by Mr. Wm. Colquhoun, Mitchell, Ont and Mr. Robert Ness, Howick, Quebec, two faithful shipped ay ars legged specimens of the real cart, wide, short Thes are certain to attract attention and sel well in Canada. Mr. Ness continues true to hi horse, with some quality short-legged, round-ribbed has done well with quality of feet and limbs. He what he has shipped this week will past, and aoint his patrons. The the show. The Shorthorns and Herefords made a grand exhibition, and were well worth poing a ong distance to see. The Shorthorn bulls were Championed by Mr. John Handley's dark roan, head, Mingthorpe, which won champion from GreenHe is He won as a two-year-old last year op line. lengthy, straight bull, with a beautiful in depth. The second prize winner in the same Cass, Mr. Wm. Bell's Baron Abbotsford 76087 , s also from the north of England. He is ear. He is of the seat the famous Duthie cow, Lady Clara dam being Deane Willis was third in the class, with the Rolwarth show white bull, C. I. V. 80707. Lord mmense animal Royal Cardigan he the fifth, and there was a certain advantage in this as it called attention to a class of animal in little white can be little profit. Between the is a great bulf and the and this monster there the prize-list by a very were happily divided in Coun Archer, from Mr. IR. P. Cooper, Shenstone uite, Lichfiela. The two-year-olds were not bull was Mr. J. Deane Willis'' first-prize yearling apton Scepter, one of the lovely youngster, nd a noted winner this year. He was also the ceptichampion. The Shorthorn cows were an if the females meritorious lot. The championship is great two-year-old his Majesty the King for White, by the celebrated 800 -gs. champion and stiong scale, and veryis is a heifer of extra, ciass. Mr. Deane Willis had reserve Kilblean White Heather, bred by Mr. J. B. Manmieeder, and is a genuine good cow. Some an Mr. Jememiah Colman wn in all the classes by They whe bred by Mr Gatten Park, Norwich Hilnthorm, so that the Atkinson, Overthwaite how the unusually good appearance at this Caino $\quad$ A singularly handsome yot by waite. 'mothown the Mr. Joseph. Harris, Calth maimit Mate- the owner of one of the few re is miuchich herds in England. This winner dam being by the famous Duke o is a good one. a good Bates Reds are a type of Shorthorn cat
been bred for a Inshire. They have at length won a thrifty gool, and are entitled to a thrifty good sort, combining the Theef and milk in quite a unique sis. R. \& R. Chatterton, Stenigot,
first with a grand big bull named
iords, as usual, attracted a vast

JULY 15, 1903
the Shorthorns-that is, Laking them all over ship with the two-year-old bull, Fire King 22135 the reserve being Mr. Peter Coats' Holmer 22290
from Clifiord Henford. The female champion was Mrom Clifiord Henford. The female champion was Mr. Thompson's two-year-old heifer, Bonnie Mary.
Devons and South Devons were not as strongly represented as they have sometimes been in past years, when the show was in the south of England. The former are well known; the latter are a taller and bigger race of cattle, a little high Aberdeen-Angus cattle are rapidly conquering
English territory, and this year they made very strong exhibit at this show. The numbers but the black polled breed is so far from home, south. The championship of the breed went the Mr. T. H. Bambridge, Eshott, Felton went to celebrated bull Maramere 18160 , bred by Mr. Mcmous Delamere. Auchnage, Aberfeldy, and got by the fa-two-year-old bull. Mr. W B. was the first-prize Haynes Park, Bedford. This bull is, from Quinton of Haynes 19773, and except for a little plainess in the hearl and weakness in the hocks, a long time. The best full of his age seen for Mr. R. W. Hudson's Effulgent of Danesfield 28617 , a four-year-old cow, and a very good one. The leserve was Lord Strathmore's first-prize yearling heifer, Vintage of Glamis, a bonnie one. She
was followed in her class by another heifer was followed in her class by another heifer from
Glamis, named Etotic of Glamis, which may yet leat her.
Galloways have not often been os numerous as they are on the present occasion. Mr. H. C. Jasper 8162, a good strong bull was first with Cunningham, Tarbreoch, Dalbeattie, had first John second for bull stirks; first and com. for cows and second and fourth for heifers. The Duke of Buccleuch, Sir Robert Jardine, Bart., of
Castlemilk, Lockerbie, and Mr. William Troquhain, New Galloway, were ailliam Barbour, ners. The bull owned by the last named, MacKenzie of Kilquhanity, was placed third in the old class, and is one of the best shown. He is a three-year-old.
numerous. Those forward are, however at all satisfactory. Mr. Andrew Mitchell, Barcheskie
Kirkeudbright Kirkcudbright, shows most, and is successful with a very good cow in milk, bred by Mr .
Robert Woodburn, Holehouse James Howie, Hillhouse, Kilmarnock shows Mr. lot of good stock. His winning bull, Not Like ly of Hillhouse 4469, has never been beaten is the is the other exhibitor of Ayrshires. He has
taken a first prize.
25th June, 1903 SCOTLAND YET."

## Hog Cholera Outbreak

Farmers who purchase store hogs for feeding purposes run considerable risk at times in case of the animals coming from a neighborhood or should where hog cholera exists. Great care should be exercised in making such purchases An instance Dr . nary Service, which is taking promin eterious measures to check taking prompt and vigortrouble. Owners should further spread of the authorities any suspicious cases report to the in the measures taken for stamping out the ait Ripley, Bruce Co Harrow, Essex Co., arrived a Ripley, Bruce Co., about May 9th, 1903, containremainder from Belle River. Dispute as to class: unloaded and left in G.T.R. Cattle-yards for class days, until seller or agent arrived; 58 fat ones Were picked out and sold to Thos, Harris; h his hogs. After one week he shiped them among Toronto to a packing house; he also placed mumber in G.T.R. yards for a few days, and hose that were in contact with the 58, the of car from Harrow weere moved to Pine River pens. On June 9th, Inspector was sent, ani found 63 of Pine River hogs dead; slaughtered and held post-mortem, found hog cholera; killed
the lot, and found 125 diseased and 20 contact. the lot, and found 125 diseased and 20 contact.
Five breeding sows sold to farmers from this car, and in every case these to farmers from this car nstances the post-mortem hog cholera. In two nstances the pigs in contact were diseased.
Iune 25 th, 1903 , Inspector sent to Huron pe ound 185 hogs. Post-mortem revealed 129 dis-

## Mr. George Johnson, Dominion Statistician iting the " Farmer's

 Iting the "Farmer's Advocate" under date of urnal without finding something useful in it., say they allTHE, FARMER'S ADVOCATE

## Royal Countios Show.

At this year's show held at. Southampton, sheep. THE HAMPSHIRE DOWN breed was ahead Mr. J. Flower, in a clecs and in a verage of merit rams, all of which were noticed in the award list, led with ease, with a most typical ram of the highest quality winning the first prize here, as f England shows ; he was also made winner of


Rebidence of J. J. story, wawanesa, man.
the King's prize for best entry of its breed, and as the $r$. $n$. for this honor also went to Mr. Flower for his matchless pen of yearling ewes, was notable indeed. Mr. T. F. Buxton's mascuFlo ram, let last season as a lamb to Mr. ors ; Mr. Carey guineas, came in for second hon ing the third award. Mr compact sheep secur first and second for two-shear rams, with sheep of fine merit. Mr. H. L. Cripps led in the ram
lamb class with a fine lamb. Mr J. B. Maple (who should have been second), Mr. T. F. Buxton and Mr. J. Flower following in the order named. The last named breeder, how ever, was more than recompensed in the follow-
ing class-that for pens of three ram lamms ing class-that for pens of three ram lambs-
winning with one of the grandest pens we seen for many a day, for which during the open ing day of the show he was asked if he would take $\$ 500$ each for them ; a very useful pen wor
second for Mr. Carey Coles; and thir second for Mr. Carey Coles; and third honors were
given to Lord Carnarvon, for a well-grown In the ewe lambs, Lord Carnarvon won with notably fine pen, one of the best we have seen for some time, a pen which will be keenly competed our columns. Mr. J. Flower was a very closeup se SOUTHDOWNS were hardly up to their usual
high merit, but the winners were, as a whole high merit, but the winners were, as a whole,
quite equal to those of former vears. Mr. C.

Adeane's winning yearling ram being high merit indeed, a ram which will be of very
beat at future shows. notable success in the two-shear mo secured a won first and the championship of the breed with out for a best of this age that has been seen from Sir T. V.S. Gooch . Next him came one than its merit entitled it to, when compared with Mr. Adeane's ram that came in for third honors The Pagham Harbor Co.'s flock, which won first ling ewes, had in them one of the very best pens of their breed we have seen for a bery best pens Second honors went to Mr. F. Ellis, for a most Typical pen; and the Earl of Cadogan was r. n. for single ram lambs and took first prize both for single ram lambs and also for pens of three.
Each of these entries was of very outstanding before all their competitors in merit, spect to type, character and quality of fleece lambs of very was second in each class, wit place was filled with two quality, whilst the third typical pens from Mr. E. Ellis' flock lamb class was a very capital one indeed er ewe Adeane winning with a beautifully matched trio: Mr. F. Ellis' flock lend well brought-out pen from pen from the Pagham Harbor Co's place for for quality of fleece, typical charactock, which and mutton, were quite as good as any.
In the small lot of Shropshires shown, Sir P R. P. Cooper taking second rams and ewes, Mr the whole of the exhibits being of very fine class Mr. J. T. Hobbs led in the Oxford Down classes for yearling rams and ram lambs, Mr. A Horlick, was represented with some very tyr. J sheep indeed. each of the Dorset Horn classes, with very meri

Remedy for Sow Eating Young
much. appreciate the "Farmer's Advocate" very vocate" is your replies to questions from farmers time to time been able to animals. T have from subscribe for your valuable paper. that as an inducement, and I have hardly ever than they dors should use these columns more favorite recipe that almost every farmer has a a help to some brother farmer , and it might b of mine. A subscriber some time ago asked on remedy known it have never cating the pigs, very salty, fat pork, SAMCL MILLER. Maple Hill, Ont

Waller Ostoorne, of Brant Co., writes that he likes the "Farmer's Advocate". because it stands


FAIRY PRINCE AND DUKE OF SEDBERGH


Oxygen Treatment for Milk Fever

## dreaded as a most deadly disease

dreaded as a most deadly disease.
and scarcely will be, looked on with
dismay, but the invention of iodide
dder ine the invention of iodide of potassium terrors. The number of recoveries under this previous progress has stimulated experiment Equal success has been attained by the injection of other antiseptic solutions, such as chinosol, or corrosive sublimate (one in a thousand). From
the Canadian 'Farmer's Advocate,' just to hand, I note details of a number of trials of the oxygen treatment invented by M. Knusel, of Lu-
cerne, which have been carried cerne, which have been carried out by two ve
erinarians in London, Ontario. The oxygen procured in cylinders compressed much aboy made with measured quantities of oxygen (about two quarts into each quarter of the udder), but in other cases the udder was simply filted till distended, and the teats tied with tape to presix cases detailed the results were uniformly successful, and the recovery exceptionally rapid. The modus onerandi seems of the simplest, and quite Within the range of ordinary farmers' abilities the metal cylinders, all that is necessary is to connect a stout tube from the cylinder to the teat syringe, and the tap turned on till the
quarter of the udder is distended. The teat and the syringe should be washed in antiseptic solubright as these experimenters promise, it will he much to our benefit. The oxygen can be kept on hand so easily, it is sure to become popular these veterinarians in catisfary. The verdict by ment is as much in advance of the iodide potassium treatment as that surpassed the old methods of
tish Farmer
TThe "Farmer's Advocate," since calling the atreatment of stockmen and others to the oxygen treatment for milk fever, as successfully tried in
Europe, has naturally followed with much inter est experience with it in Canada. as we did in previous years the results of the Schmidt methoid ferred to by our Scottish contemporary, advis us that up to this date they have treated with oxygen 21 cases, with the most, gratifying result vantages of this treatment are the rapidity adfrom 1 to 3 hours, as compared with from 8 to
12 hours in the Schmidt treatment) ill effects, and no folling subequent udder or othe ill effects, and no falling off of the milk flow. milking grade Jersey, that had been driven eight miles in very hot weather the dav before calving. calved that night and went down the following
morning. The veterinarians were not called till $6 \mathrm{p} . \mathrm{m}$. on that day, and found her in the hush
whore she had of the worst cases thev had ever seen. She re-
sponded promptly to the treatment, but did not get on her fect: drank water and next morning
picked a little grass, but gradually relapsed.
second in second injection of oxygen revived and held. A till midnight. When tshe relapsed again, and a
third and fourth injection resulted similarly and she finally died at $3 \mathrm{p} . \mathrm{m}$. Friday. It should be of milk fever the previous wear through an attack \& Through the instrumentality of prs. Tement procured oxygen treatment outfits. umples har as

Human and Bovine Tuberculosis

## Berlin. July 9.-The Berlin Medical Sorciety








 and sixteen from childy show the slightest enfect month the slig igt est cha seven showed morere markee
tuberculosis.
follows: "The series of experiments strizes a
the cause of human consumption. does not, as the role generally attributed to it, but definite
judgment requires further experimentation."

## Fly Preventives

For the past two years the Hatch Experiment Station has been conducting a series of tests with too thick they were applied with a sprayer; other wise, a four-inch varnish brush was dipped in the liquid and lightly drawn over the animals. Cows were treated in the morning before being fore milking. They were observed at frequent intervals during the day, in order to frequent effect of each particular brand
The branus used and the results are as fol-

1. Sure Thing.-Applied as spray. Keeps off
fects. very satisfactory
2. Stop Fly-Applied sor 4. Noct disappeared in one-half hour.
3. This material is unquestionably crude creolin ; it is very valuable as a disinfectant, but. not satis5. Flylene.-Very effective, keeping the flies of for a long time. fairly effective in keeping off small flies, it was the large house-fly.
as . Eli Fly Chaser.-Applied with brush. Same 8. Eureka.-Fairly satisfactory. Weather cool. and trial, consequently, not as thorough as 9. Rippley's Fly Remover off for a short time. One year's trial fmall flies ofr a short time. One year's trial.
10 Cyphers.- Keeps flies off for a short time. Only one year's trial.
TESTS WITH OTHER SUBSTANCES 11. Light Coal Tar Oil.-This is the lighter
the two oils derived from tar. the two oils derived from tar. It was obtained Company, Pocahontas, Va. It -appears as dark, thin oil, with a strong creosote odor. It
was applied as a spray, and gave quite satisfacwas applied as a spray, and gave quite satisfac-
tory results. 12. Recommended by J. M. W. Kitchen, M.D.two pound resin, one-half pound caustic potash, water. Boil these until all united into a smooth liquid, then add one pound p ne tar and one pint
kerosene. Thin down if necossary and kerosene. This mixtube was quite thick and heavy. It was applied lightly with a brush and was not effective.
13 . Recommended.-One-half teacup hisulphide carbon, in which dissolve one tablespoonful pin then stirring thoroughly until tar is dissolved, and And apply as a spray. This mixture was auit Phective for a few hours, until the carbon bisulstopered evaporated. RESLLTS WITH HORSES.
The agricultural division of the station gave orses, applying the same with a sprayer.
five hours; the large green fly does not mind it 2. Cattle Comfort.-Lasts

$$
\begin{aligned}
& \text { Cattle Comfort.-Lasts about three-fourths } \\
& \text { day. Gums horses. }
\end{aligned}
$$

Stop Fly.-Ineffectiy

$$
\begin{aligned}
& \text { Norwood Sanitary Fluid.-Ineffective. } \\
& \text { Flylene.-Keeps flies off well, and }
\end{aligned}
$$

horses hut little. Very satisfactory, and glums
6. Eli Fly equal to No. 5. Dhaser.-Quite satisfactory, and 8. Cyphers.-Protects for short time only, and (a) GENERAL, CONCLIISIONS (a) Quite satisfactory : 1, Flylene: 2. Wureka:
Tar Oil. Fly Chaser: 4, Shoo Fly : 5, Light Coal tle (1,) I.ess satisfactory: 1, Sure Thing: 2, Catthe Comfort: 3, Rippley's Fly Remover: ${ }^{\text {4, Cy- }}$
phers Anti-fly Pest: 5 , Recommended Mixture No (c) Unsatisfactory: 1, Norwood Sanitary
Fluid: 2, Stop Fly: 3, Recommended Mixture satisfactory ohiection to those marked "/ quit satisfactory" is their cost. Fesen at the "precent Whe use is warranted, because cows remain much




## T'The Royall Show.

CATTILE, Sheep AND PIGS
Eighteen breeds of cattle secured classificatio this year at the Royal Show, and they made al limited amount of space allotted to me, that bul the barest recognition of the different breeds coull ve had almost entirely to be omitted breeds SHORTHORNS, the most cosmopolitan e have, took precedence in the catalogue breed lot of its 131 entries were found a very grant Handley; Baron. Pearl King, from Mr. Johı Bell; and C.I.V from Mr. from Mr. William cured the awards in the old bull class, after keen competition between the two finst namea The reserve for this came to champion honors ton Sceptre, a yearling bull of considerat Bap: ncluded the female section the leading winer pion honors for Sylph, a two-year-old daumb Royal, Mr. Willis, with Whito bull at last years HEREFORDS secured an euty of grand lot they wero. Their fine form and bean them a considerable company of admirers. Majesty the King took leading honors in the bull who won the male championship. The female Bominionship went to Mr. T. R. Thomson fol Bonnie Mary, a very fine and typical two-year-old third; whilst in the yearling heifor cland and Richard Green was first and His Majesty Mr. King second and third.
THE ABERDEEN-ANGUS, so well known Cand the were here roppresented with 47 entries, English breeder, Mr. T. H. Bainbridge. Another
English breeder, Mr. R W honors for females. The Earl of Stathimily the Earl of Rosebery and Mr. L. H. Macpherson, entry, were wh, with a typical and not larg leuch Sir Robert Jardine, the Duke of Buc THE AYRSHIRE BREVED were winners. was , had an entry of 17 , which though small Was exrellent, Messis. James Towie, Lt-Col
$\qquad$ we fer by study of the pedigrees of the winners we find that they represent practically the whol
of the leading strains of successful blood at the
$\qquad$
$\qquad$ and colonial buyer, for the there has an foreig
tunity of comparin to ferent breeds, and he also sees, if the of the dif small one, the leadine specimens of the severn
$\qquad$ ing in 1889, as that which was issued in we mee section. The number of breeds represented heing
21 catalocuc an entry of 571 . The first breod in the that Mr.J. T? Hobbs whe we may mention (lass, besides several honors with very represental
tive and good sheep. R . w . tur . sluceessful winner in the class for won was also his well-known flock sending out some which wer were also P. Reading, W Theresenten as is ushally were not so mumerousle
 merit an! quality, and all through the class the
$\qquad$ very nice and good lot of sheep; had present
Sir P. A. carling roms. second for old rams, third for the

[^0]JuLy 15, 1903
THE FARMER'S ADVOCATE
 to America, will be found one that should lead
wherever he goes. wherever he goes. His Grace the 1huke of Richling rains, was also very sucen first for year the other classes, which he deserved. The Earl vith a very champion honors for yearling ewe THE HAMPSHIRE DOWN breed, which al represented at our shows, was equally so at wis pressed by Mr. H. C. Stevens class, closely lower, who holds so high a Temutation, wames again confirmed in his pre-eminent place by sefor ram lambs, first and second for yearling ewes horoughly deserved. The Earl of Carnaryon whose flock is now going to be dispersed, w
first for ewe lambs with an unbeaten pen, second for ram lambs with another pen of ve Murray and Mr. Carey Coles were also Scott successful, and we may add that the last named
bieeder, whose flock is hieder, whose flock is well known in Canada, liardy secured so good a mosition as anticipated.
THE SUFFOLK breed made entries we have seen at the Royal for some time. and though Mr. H. C. Smith won nearly all the leading prizes, it was satisfactory to find that
the number and description of other awards more general than has hither of other awards was well, 1). Abbot, S. T. Fraylen and Lt,-Col. ShirTry, small in number, but all a veory typical enshear Caswell won champion prize with a two serve number with his first-prize and champio vearling ram at Nottingham. The hard luck of Messrs. Wright in not securing premier honors tion, was probably one of the Nocton Coronatakes in the awards. Mr. Henry Dudding secured first and third in the two lambing se with some exceedingly fine sheep; Messrs. Dean \& full fleece and in the class for vearling ewes in serond and third,' had a very fine lot of sheos present: and Messrs. Wright by securing the learl-
ing honors in the yearling ewe class had cort Iy some compensation for their class had certain ment in not winning in the old ram class.
COTSWOLDS, which are so much admired in four country, made a very good entry. Mr. W. W. all the leading honors, but we are pleased to Wote that Mr. W. Houlton and Mr. R. Swanwick
were nearer to him than they have heon in Messrs. C. F. Jordan and G. Harrison won the
Mears leading honors in the Ieeicester class. ipal winners in the Border Leicester class. Bentine executors of Mr . T. Willis and Iord Henry he Wensleydale class.
ole were the leading winners in the Torc class, which we are pleased to mention were THE KENT OR ROMNFY MARSH former years he fourth largest entry of any number in tho section, and the winning sheep from Messrs. C,
File. F. Neame, A. Amos, George Farmer and W. lie, F. Neame, A. Amos, George Farmer and w.
Milne were of a very nice type of character. and crident from the expression of opinion heard hy men who know your coluntry that there is ronim hefler it will be for those who take them.
THE DEVON LONG-WOOI made small but good from Nevon and Cornwall. Made small but good entries. The Cherint the
M1tack-face Mountain. the Lonks. and the IIerds were very muluh andmived be thense entry and
theme visiter Imomtain sheep secured one of the largest Welsh The this hred we have senn for some time. and
the last breed in the sheep section. the Romiands.
which for maty in ohscurity, came out with so many fine speriThe made more nosise and hrought their horest to
Hie front. for though a hreed unknown to CanaThass as it is to many at home it is one of
hose which for quality ni its flech and deserip-
tion of wool has fow that necel it THE LARGE WHITE
and its leading winners for Yorkshire contion. onther setions in this class Whe Farmall Th Thelloce BERKSHIRES, which made a very large en-
demand, both for home and export, were great pigs. Mr. R. W. Wudson took first well-grown champion fors the well-known boar Manor Hertules, and H.R.H. Prince Christian was reserve James Lawrence, Sir A. Anderson and 4th. Mr. T. de Traftord and J. A. Fricker were Messrs. H. TAMworths, the breed so well-known and appreciated amongst Canadian pigmen had a very 1. Phillips and H. C. Stevens were the Mon, D. Winners. The large black pigs, hardly leading high quality you, made a very strong entry of high quality and good merit. Mr. . F. Marleading honors. $\qquad$

## A Calf-feeding Experiment

It is questionable if anybody doubts the superiority article has, howe premier food for calves. A good
a limit to its value, and where separated milk is plentiful, and new millk scarce where former, with all its faults, may be the cheaper of the
two. All who two. All who understand calf rearing and feeding, and know the difference between ordinary skim milk and
separated mill, realize the impossibility sorme from the two classes of milk when wised in the same
manner. To do so is to rrovided both are of the same degree impossible separated milk is quite a sood food, but old-fashioned
slimm milk is better. From the fore separated milk and skim milk the food point of view, viz, that the former contains from $1-10$ one respect, $1-4$ of 1
per cent. of butter-fat, while the latter usually contning


PEARL KING (79531)
Sho:thoril bull, calved July, l:mo. Wimuer of firstand
$\qquad$
greater or less extent, so that the deficiency of the
skim milk is not noticed to the samme extent os is ease when separated milk is used. Owing to the ready now a greater tendency than new milk, there is also quantity and shorten the period comerly to restrict the is given. This tendency is foum, new milk
district district where milk can be easily sold. For in to the creameries or elsewhere cash for the milk sold distant one when the where, compared with the more heifer, the food of the calf is sold as a yearling of gree greater than experience warrants as profitable growth of the intenslifies the stunting process in the that dealers and foeders have become to wondered at put all the blame on peparated milk. There and have ever, no occaslon for alarm, but considerable necessity with what advantage order to find out how far and to separated milk whe supplemental foods can be added In converting new millk into separated milk, it has pure fat alone is drawn from it is added to it, and therefore, for the calf feeder is, can this valuable butterfactory results. It is very unlikely and yet give satis ever give better results in calf feading that any fat will fat of milk. A good article may, however, original be bought too dear, and at the present price of butter
the use of the fate the use of the fat of milk for feesing calves seems a
very costly food. There are also geol believing that much better financial results grounds for melleving that much better financial results might in human consumption, and some cheaper, and were sold for digested, fat purchased for the use of the calves. The four years has proved
without doubt that good results can be
obtained by adding
about daily supply of sepa rated milk. The ad
dition of this quan
tity of separated milk up
about the same pe Hood Sk im mim mat
Those who mave most successful with
this food recommen for about a mew month, milk may gradually iully
tity
greater
of
 the daily supply o
which two ounces cod-liver oil has been
added.
$\Lambda$ ers have successfully used fully more than
this quantity of oil
without any purgative effects lut while some calve
can easily digest can easily digest and this seems a safe
imit.
Inste limit. $\frac{1 \text { nstead }}{\text { Ince }}$ limit. Instead of
increasing the quan-
tity of oil, it is
courage the
best procurable to
best inseed to best procurable linseed cake, or to add to the thillk
a little jelly made from ground water. During their seand ground linseed and boiling about half a pound of linseed cake per clay, or somewhat separaterl milk and cod-liver ofl. to their supply of older the linseed cake may be gradually i. it ressed, or boiled oatmeal. A small quantity of fresh well-made hay or younge grass should be given early to cach call, as they begin to chew hay earlier than many peaple
as
sumpore suppose. Some rearers have had good results from
the addition of other substances besidlus corl-liver oil. not improbable that oneal to separated milk, and it is may not yet be discovered The first occasion on which public attention was
drawn to the value of cod-liver oil for call foudinn was When, in the value of cod-liver oil for Malf fowding was Ropert Jardine, Bart., of Castlomilh, Duminimes ishire, fed
sixteen calves. in four tots of four, fubh sixteen calves, in four lots of four cach, on various
foods. One lot was given new milk for thice months,
and separated mill for one moull tal
$\qquad$ tion to these foods, both lots hal one half pound of one pound du'ring the third month, and one and one-half weaned at the end of the fourth month, when there weaned at the end of the fourth month, when there
was little difference between efther in appearance, after

THE FARMER'S ADVOCATE

| 1897-that <br> weight of four, while those cod-liver ofl weighed $16 \ddagger$ $\qquad$ <br> realized for each lot <br> Those fed on whole milk and realized $\$ 275$ for the lot <br> Those fed on separated milk and oil weighed <br> cwte. gross, and <br> The milk supplied milk and cod-li, <br> at $\$ 30$, <br> and $v$ <br> verify at little <br> once daily every precaution ought to be observed to <br> keep the milk sweet and free from taints of any kind. To carry this out satisfactorily the separated milk <br> should be first heated, then rapidly cooled, before being pasteuricing, as it is called, may be carried out in the many simple and inexpensive arrangements capable attaining this end which will occur to most neople. I is usually possible to do so at no cost for fuel by utilizing the exhaus <br> separator, etc. When milk is heated to about $150^{\circ}$ F. it acquires a boiled flavor, which is very disagree- able to many people, and the digestibility of the albumenoids is believed to be also considerably lowered The lactic acid germ, or active souring agent in milk, even killed, by exposure to a temperature of $140^{\circ} \mathrm{F}$ <br> Ior from ten minutes to twenty minutes. Experiment at Wisconsin, in 1898 , proved that 98 per cent., if <br> not more, of the bacteria which produce lactic acid minutes. Other test at the same station also showed that milk heated for fifteen minutes at $140^{\circ} \mathrm{F}$. Was as fresh, on the average of a large number of tests, at forty-four hours as another portion of the same milk unheated, but kept under identical conditions, was at twenty-one hours. Where, therefore, the milk is to at twenty-one hours. Where, therefore, the milk is to be used for calf-rearing, pasteurization s? ould always be performed, and in order to get the full advantage down to $50^{\circ} \mathrm{F}$. or under. In the most of cases, in the same vessels that carried the new milk away vessels run considerable risk of contaminating the such mflk. The process of pasteurizing, and then cooling, not $\qquad$ $\qquad$ $\qquad$ $\qquad$ <br> talned frow any class of food.-IIrish Builetin. |  |
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Milk Fever Recovery. Sir, - 1 have been very much interested and
greatly benefited by the articles in vour valuable paper about the oxygen treatment for milk fever I have a high-grade Holstein cow, a very heavy
milker and very fleshy. About six hours after calving the first symptoms of milk fever were

 ordinary air pump was then procured, and a tule

HORSES
Diseases of the Digestive Organs in Horses. owner to attempt treatment of disease in horse When professionai attention can be promptly pros
cured, it is well that all who own or drive horses sbould have an intelligent idea of the
causes and symptoms of the which horses are liable. Some are so situated that a veterinarian is practically out of reach, and in such cases he is compelled to depend upon though a veterinarian may be in practice withi and his services not procurable for a few hour or longer. In such cases it is well for the owner
to be able to diaguose the case dies that will have a tendency symptoms until skilled assistance arrives. In all
cases, especially in dicestive troultos Cases, especially in digestive troubles, where situ-
ple remedies do not effect a cure in from one to Cro hours, it is much better to send for a vet erinarian promptly, as the fact that the symp
toms oi disease are continuing despite given, indicates that the disease is serious and requires skillful and prompt treatment. Give treat yourself until the disease has reached that stage that renders successful treatment improb-
able or impossible, and then send is frequently done, and the practitioner called hard names because he failed to cure an animal veterinarian be not within whe was called. If a course, has to do the best he can and it is, of ticularly on account of those thus situated that rolume considered it advisable to consider in these columns the causes, symptoms and treatment of With rare exceptions, diseases diseases of horses. organs are the results of errors in feecding watering. When horses are intelligently fed on food of good quality, and allowed to drink frehuently (the water being of good quality), it is stomach of the horse is less liable is seen. The the intestines, from the fact that the former is The food is cored with the volume of the latter stomach, soon passing on to the intestines in the stomach, soon passing on to the intestines, where
the chief part of the process of divestion waved - Place. CHRONIC indiderstion or indimestion result of food of no occurs in the horse as the gularities of the teeth, the process of or irreirregular feeding, voracious feeding. deltility the stomach or intestines, etc. less hidebound. The appetite isually more or he often has a tendency to eat filth; there is nsu-
ally a sourness of the thirst, along with of the manoth and increased
general unthriftinesc
 arter reeding, while in others giddiness, megrim,
and even tartial paralysis may occur.
TREATMENT. -The first Treatment on NT. - The first principle in the
trature in of any disease, especially if of a chrolic if possible. In the majority of cases of chronic
indigestion in the horse we will for Iy in his third and fourth young horse, especialvermanent ones. we frequentl, and roplaced the temporary ones, the fangs of which have the the their fellows, have not shed, and, as a conceer horses, and also frempently in poumy In

 Proper mastication. Ans anton 1 ittended to. All horses N.er essed every year: hence if a hould he disease under disenccondition the fant shomy,
$\qquad$ mexgen teat titioner taking
tions. - Palitor.

## JULY 15, 1903

## Our Western Letter.

## CROP PROSPECTS.

The month of June was slightly, on the dry
side, yet the fine growing showers of early came in time, so that present indications poin perhaps some ten days earlier thall commence of 1902. The straw will be shorter tharvest year, which most will consider a blessing, for on iallow land, especially, a year ago consillerable inconvenience was experienced with lodged grain. crop of medium lengually are obtained from a that this year's grain average will exceed that of last.

## TRADE BRISK

At present building in town and country is being pushed as never before, and hany desirous
of making improvements find it impos:ible to do so, owing to the scarcity of both material lising medium of tie highest typess is an adver many a man who has been induced through ,ther means to spy out the land.
immighation
The rush continues, and many prospectors purchase whenever a suitable tract of salable land can be found. a suitable tract of salable of many who have recently purchased larined and who are now breaking and building, and at the same time hungry for more land for relatives Canadian West. At present the goodness of the is on the lookout for a block of 50 And farmer lor which he has already got customers, chiefly if found will from the United States. This block often the case, but held for speculation, as is good-sized holdings, and become be divided into tilled West in a very short period. part of the IMPROVEMENTS.
The C.N.R. are laying some 650 miles of new handling the present and future crops. The chie De finished in time the extensions will certainly great effort will be put forth to crop, and that branches. Grand View extension, 300 the Prince Albert ext., 60 miles; from Neepawa Rossburn, 65 miles; Neepawa to Macleary, 3. west of Portare to Carberry, 30 miles ; southPoint, 55 miles; east of Emerson miles ; to Oak from Greenway to Wakopa, 40 miles The C.P.R. is also busy puttin reducing grades and easing off curves, so sidings, Considerable rail-lay loads to reach the ports line from Arcola to Regina, 115 miles; the The dorf extension across Pheasant Plains to Jump ing Creep, and the extension of the Manitoba and rrincipal improvey making in that line this season. EDUCATION
Many of the older schools are becoming over
rowded, and in the Territories alone since )ctober, 160 new schools have been started. 'Teachers' salaries are going up, and signs of nost vacancies teachers is being felt in many parts teachers usually coming to being filled, Ontario BANKING
Another prosperous sign of the times is the in
creased banking business. quired to meet the demands, and it is not recommon to find to-day four to five banks in a iound. Many new settlers are depositing money fo. sare keeping until they decide where to lobrought many moneyed individuals here and has last two bumper crops have helped the steady, iill." which for a time is left in the care "need-
$\qquad$

## Experimenting

A number of experiments are being tried by Red Winter wheat will prove successful in our timate. Most of these will be conducted in Altan alfalfa clover, other clovers, grasses and cout, B.S.A., Superintendent of Institutes Haraits for the Northwest Territories, is in charge lany of the mixed farmers of the Territories will
atch with interest the results of these experi-
oran growers.
os from Ottawa, the farmers are more hopehat past grievances relating to transportapresent bright prospect of this, along with

THE ARMER'S ADVOCATE
country grationing
and this pleasing cornbination of of expected blessings has also made itself felt in a practical way by inducing old-timers and newcomers to vie with
each other in breaking the virgin soil for next
year SUGAR BEETS
being rapidly pushed ahead. at Raymond, Alta. heets have been sown, and some little timge of the thinning process was much in evidence.
The attendance at, the schools was very low
during that time, and, in fact, all available help was introduced to the " "beet fields, ," available help "was introduced to the "beet fields."
this industry, for all things except the regularity of sufficient moisture appears to have been proWinnipeg, Man. OBly to that neighborhood by nature.
Winnipeg, Man

## Dragging Roads

Down in Missouri, where gravel is scarce and
where clay roads are destined to roare clay roads are destined to remain clay been given of late considerable attention has roads by drainage and smoothing. The clay roads are first graded, as has been done in most Some of Ontario within very recent years, but in covering them with of leaving them alone or scraped frequently with a heavy timber dragged or approved method is to split a log in halves mos attach a drawing chain to each end of each piece in such a fashion that it will ride on edge, and so


Hendre royal albert 19686.
Shite stallion. Winner of first and champion prizes at the Rog
Sir,-In or " Farmer's Advocate
we would say, "What the inquiry of F. E. W reaching the people the 'Tarmer's Advocate' is of
In 1894 we there saw 'worn seeds could be bought where ginseng roots and chased enough to make a start, andiately purstructions how to cultivate and take paid for inWe have been doing so since then successfully A botanist who examined our beds three years grow it to it is evident you know how to industries a farmer can invest in in this the best at present. is worth a great deal to is only eight years, it it the first of it, and did not take proper care of small beginning, and some said it was a very bothering with, and that it would pay better to grow a bed or carrots. But that day and thiat ioam, but we think past. our soil is sandy ground suitable that is high or dry enough any cultivated nece to make it good, as it cannot be better the every year, and like other crops, the be drowill not do to "sow"' the seod. It should made across the bed in more than an inch deep three inches apart, for convenience of keeping that is necessary inch apart in the row is all tober, and should be well covered with in in Octhe winter, anid shaded in covered with leaves for the most convenient and ecconomical
shading is shading is 1 ath , apart. Ginnseng apart. Ginseng
won't stand the sun. At two years old the plants should be transplanted, and set four to six inchThe work is then over, except keeping the ground clean. ground requires it), and keeping shaded for five years, when the roots ought be taken up and prepared for market. The seed will be ripe be taken ofr and can one able to py anci berries. This seed for the next fiourwill not germinate the first year. Now to answer
he question, "What would be considered a fair return per
acre?" seems to us
shave on the lumps and fill up the hollows in the the whole surface equally up the ruts and makes it soon becomes hard and smooth. Rain falling upon a surface of this kind at once runs to the ditches and is carried off, whereas under ordinary water in the serall be an accumulation of which would not only make it muddy, but by eing worked into the interior tends to make a The effect of this dragging unor heavy loads.
The almost incredible, and even if it results in only part of the advantages claimed, it goes a long way toward improving clay roads at very little cost. But so enthusiastic are some of the farmers where the method has been followed, that
many of them drag the road in front of their own farms at their own expense, simply for the additional value a gond road gives their land, and for their own personal convenience. Where
gravel is not available, this treatment roads in Canada might obviate much of clay convenience experienced upon themuch every spring and Isolated instances are known in this country
where where a plan similar to that practiced in the plement used being a blacksmith-made scraper drawn over the road after each rain, and at such an angle as to move the loose earth to the center. Whenever either method is used the result
is the same upon the road, and those benefiting by it are loud in their commendations benefing practice. With such an introduction the practice should be more largely introduced where clay
roads are common.
something to us
answering the question, would the Northwest
Ginseng growers acre. All with do not reckon grow ?" speak about it by the we have corresponde y the bed. It takes so much so much "out of roots ", for a bed," or we made described, means $16 \times 3$, feet. We if not otherwise ticular reason, except in shading with lath, which fours, feet long, it is necessary to coint by manage the beds as well six far we saw we could fore, contrary to our instructiot wide. Thereour beds $68 \times 6$ feet. If a bed that we laid out with two-year-old roots-provided that planted next were properly cared for-it should, for the turn an average of the present value of seed, reyear. Many of the two-year-old of seod each sed ; we have taken as many as six good ber ed. $\begin{aligned} & \text { ARPOR they were transplant- } \\ & \text { ARTIUR J. MARTIN }\end{aligned}$

INote.-We recently inspected a bed of ginseng sex County, Ont., and which appeared to be
making very fair and tedious very fair progress, though of its cultivg to the lect to see it become very general. The price o
seed is uncertain. It has been quoted per ounce, and also at $\$ 21$ peer pound. up to $\$ 5$ matured bed, but that covered $\$ 5,000$ per acre for a and included both seed and roots. The period are used by chemists for medicinal purposes
The bed we saw was on a low, black loany
river

Silo Building.
expericinentang stage now be said to be past person who wishes to provide a large supply, of
succulent food for winter use to decide upon thin kind of silo he will build, having in mind the
cost and duration of silos made dif materials. Silos naturally fall into two classes, temporary and permanent. The temporary silo iore cement was generally introduced, very elaborate wooden silos were built, but of late the
wooden stave and the cement silos have super ceded all others with rare exceptions. The roun stave silo has several features to commend it. It is easily built where lumber can be had; it is comparatively cheap, and it serves to tide
sceptical person over the experimental sceptical person over the experimental stage of
ensilage feeding. On the other hand, they are purely temporary, the juices of the corn causing tot in the wood, and unless carefully built and well anchored, they require considerable care to reasons the coming into general use
In building a silo it should be borne in mind that the object of the silo is to preserve the con tents from the air, and to this end the founda possible. In wooden silos the closeness of the walls is secured by the moisture of the silage swelling the timber, thus closing all cracks. In this connection it is well to finish the inside of a cement silo with a smooth coat of cement, eithe obviate friction as the ensilage settles
Round silos, whether of wood or cement, ar now almost exclusively built. They have the ad vantage of containing the largest possible amoun pressure is evenly distributed over each part the wall, they are not subjected to excessiv strain at any one point, as in the square-shaped article. An effort should be made in building a greater pressure on and closer packing to ensur ensilage, as this also tends to exclude the air an ensures a better quality of feed. At the same time, it should not be so high as to look like walking stick. A good proportion is
Ensilage has now come to be a necessity many of the high-priced farms, where a large dividend from the farm, and their more make use is only a matter of time, when thicker lation and higher land values will compel thei employment. As those times are assuredly comhe one who too slowly follows the changing ditions.

When Fertilizers are Valuable. From several quarters have come expression lizers during the present growing season. Almost all kinds of crops responded noticeably to the judicious use of the different brands. The reaso
is obvious, but the effect may be misleading is obvious, but the effect may be misleading.
During the previous summer the soil over most Darts of America was so saturated with rain that considerable of the available plant food was leached to lower levels, or carried completely away, thus leaving the soil in a very poor con ion to start phis addi lizers supply excellently, as a large proportion of
the plant food contained in them is readily available.

Under different conditions of climate and soi and it is well to consider this matter befo ro expect equally good results from the use fertilizers another year when more of the natu
fertility is available, is to over-estimate value of fertilizers, and if as good results lot obtained there is a danger that the dealer
vill be blamed for the poorer results-an injusice to both him and the manufacturer. Ferti
izers are good, and have a place lizers are good, and have a pace, hut one must
not expect too much of them, nor use them too lavishly, else the profits of the farm will the fotme
lo be decidedly small, and the usefulness ommercial article completely disct

No Joke.

Some of our American papers are inclined in the Finglish Parliament discriminations it aror of the colonies, as compared with foreigl
countrics, in matters pertaining to trade. nay yet the out that such a disposition th Whe of impracticable, and if it become a realiza

Signs of Rain.

$\qquad$ The hollow winds begin to blow
And clouds look black, the gloss And spiders from their cobwebs creep Last night the sun went pale to bed The moon in halos hid her head.
The boding shepherd heaves a simh The boding shepherd heaves a sigh,
For see ! a rainbow spans the slyy For see ! a rainbow spans the sily
The walls are damp, the ditches Closed is the pink-eyed pimpernel.
Hark, how the chairs and Hark, how the chairs and tables cr
Old Betty's joints are on the rack. Loud quack the ducks, the peacock The distant hills are looking nigh.
How restless are tho snortine The busy tlies disturb the kine. The cricket, too, how loud it siwg: 1'uss on the hear
Sits smoothing Thro' the clear stream the fishes rise The sheep are seen with early Tho' June, the air is cold eager bit The mellow blackbird's voice is still The glow-worms, numerous and bri
Illumed the dewy deli last night. At dusk the squalid toad was seen Hopping, crawling o'er the green And in a dingy suit is dress ' $d$. The leech, disturbed, is newly risen
Quite to the summit of his prison. The whirling wind the dust optuse And in a rapid eddy plays. Auits mutton bones on graws to monst Or seem precipitate to iall.
As if they felt the piercing hall
Twill surely rain-I see with sortow

new variety of wheat
Alberta Wheat Heads
The accompranying illustration of wheat headis Thomas Gatrix, whose farin is situated three
miltes cust of strathcona. is at prosent menting Mr. Gatrix noticed in a fresent of wheat heads. He was curious enough to wing neads. We was curious enough to wish to in-
vestigate what he supposed to be a freak. He Culled the hwad when ripe and planted each kernel vas successiful, in that every. stalk grown fromt These seeds had heads similar to the parent one. Stamats is that Mr. (iatrix has sown last splring
…t. a half pail of seed.
He reports a yield


## Kinife O. K.

## Protect Young Grass Plants

 ock upon a tield seeded withimon is to turn immediately aiter it has been cleared of grain In most cases when the grain is off there is siderable leit for stock to pick up, and this will be done in a few days. At other times the young grass may have made considerable growth and iurnish good pasture, but in both cases the a stand of young tender clover and grass works more injury to the succeeding crop than the feed secured will compensate for. After the stock, preierably hogs or sheep, have gathered up the and the young crop given a food chance cleared come established before the winter's weather sets in. It is expecting too much from the lanid to yield a crop of grain, to produce pasture in theiall, and to start the best crop lall, and to start the best crop of clover the following spring. The feed furnished by such field much more profitable use can be made of the land if it is given a chance to establish the grass crop, and the feed that the stock requires be supplied troll a plot of rape, corn, roots, or second crop,
of clover grown for the purpose. Better grow one crop at a time and get the maximum yield of it than to produce a poor crop of pasture chew a small crop of hay.

## Prof. Wm. Brown's Death

$\qquad$ ments of the death on May 12th last of Prof going to Australia in 1886, Prof. Brown was pointed to the chair of agriculture in the Dook Agricultural College, and remained there until his appointment to college at Longerenony. H was born on April 14th, 1833, at Turriff, Aber scientific and practical education, particularoug selation to agriculture and forestry. For some sear's he was factor to Col. Farquharson, of In cercaul, Braemar, but Canada presenting bette prospces fors, he emigrated in three sons and thre farm near Orillia, and in addition to farming acted as Provincial Land Surveyor. He was ap pointed to the charge of the Ontario Agricultural College and Experimental Farm in 1875. Prol tions in regard to live-stock, and was a publica

## DAIRY

Soiling Crops and Shade

ang this and the two following monthe cow man. The elements to be called a good dairyand in spite of green crops and fly the cows, The flow of milk is sure to fall off considerably Selther of these adjuncts to dairying should be

neglected at this time, however much other work may be pressing. In very few districts is it pos pastures begin to maintain a good flow when the Tlay he, and when the cow is kept busy fighting tught otherwise be utilized in the proiduct that Gming the hot weather several things will it thi. relatise value of different crops for soil (attle foml, whe and also the rape crops for dairy cor tork. On mans farms even yet there are slamplep an few in the orchard, but the value lum In the as in the of sum-

[^1]
## THE FARMER'S ADVOCATE

The lBenefits of Covered Milking Pails object of which is to find our sors, the which the dirt in milk, as well as the by cian be reduced to the minimum.
case, milk drawn into an tests made. In one pared with milk drawn into a pail with a cover pail is an ordinary milk during milking. This ling cover, which has an opening near one side diameter, having a wire a funnel four inches in dered across the a wire gauze of fine mesh solslightly above and below the cover extends somewhat toward the side of the pail. Another loose funnel fits inside the first one. When the cloth are placed across the layers of clean cheese iunnel, and the loose funnel opening of the lower depth, is pushed to hold the cheese cloth in insi the This can be constructed by any timner. The whole apparatus is simple in structure, and In the other aned
pail was comprared with the same into an open immediately after milking. It was found that the amount of dirt from the covered pail was the amount of dirt in the in the open pail, while per cent. of that in the milk not strained 53.4 other words, the cover excluded 63 per. In while the strainer removed less than 47 per cent.,
So much fort. So much for the dirt.
By the use of the covered pail, an average of
29 per cent. of the total 41 per cent. of the acicl-producine bacteria and excluded from the fresh mifk. IBy straining the
milk as soon as drawn into pail an average of but 11 per cent. of the ototal moducing species were removed. In shor acidthe use of the covered pail, milk can be kepy amount of straining, even if the straining is cleanest possible conditions.
stant temperature of 70 kept 50 hours at a con foumd that the covered pail contained a smalle opren pail. In every test the number of acidpren pail. In every test the number of acid-
podncing bacteria was smaller in the sample from the covered pail.
The results of the test show clearly that the covered pail is much better for the proxluction more mik than straining. It is quite evident the milk in the first place than to strain it out

## Harrietsville Cheose and Butter Factor.

 ville, Ont., cheese and futter factorv, afforvets ly a large and progressive Canadian dairy es-1ablishment. There were received $5,317,253$ es ceived, $\$ 51,468$ made, 497,629 lbs.; zhoney re from 1901, $\$ 29.32$. Total $\$ 51,524.22$; balance to make one pound cheese 10.68 . Rutter mill Hatle in winter and from Saturday night's wilk 10 the extent of 599,463 lbs.; butter, 26,722 ; mones, $\$ 5,521.58$; balance in bank, $\$ 17.14$; in-:-arani total for both cheese and butter of $\$ 57$. 1. 12, distributerl among the farmers of one

## More Liberal Use of Lime

the Danes are improving upon their chovement is along the line of a more liberal How of lime for cleaning the walls, ceiling and ing the utensils. A few years ago steam was (ow ens, etc., but now it is becoming of churns, atmmon. All wooden utensils are rinsed and Mome the milk, and then they are covered with twenty minutes, or later, the churns or other n-ils are scrubbed with lime and cold water, " Which they are rinsed twice in warm water, A! dry quickly. dime is also used for cleaning the floors, and
very much reduced the use of steam and In stables and factories. whitewash is a. by dampmess. Tt is sometimes ob ofiected ditne will neel off, but the Wanes do not conto brush off a wall with a stiff brush and a fresh coat of whitewash than to clean it

GARDEN AND ORCHARD

## The Pear Blight

grower has to is the worst with which the peal has proved that it is due to the presence of specific germ, so that it is what may be called a
liacterial disease. The germes are require the aid of a powerful so minute as to them. They are carried by the wind, and in see Way the disease, if not kept in check, disseminatos rapidly. It is claimed that they are unable to penetrate the bark of a healtny tree; and they and this fact has led to the charge the blossoms, against the honeybee, that it is an active made in propagating the disease, by carrying the cerms how the blossoms of diseased trees. This charge. tion. The scarcely worthy of serious considera-
tiso gain access through the tips of the terminal twigs, which during growth are soft and succulent: and there is no doubt they often gain entrance through cracks in the bark. Cutting out and burning the diseased limbs is sihould be kept for any signs of the development of the disease. When signs of the development be cut well back to the sound wood. The fact has been noticed that slow-growing pear trees are less liable to injury by blight than those of rapicid
growth, and many growers have taken from this and mave ceased to cultivate the hint orchard, 'and many of them report comparative freedom from blight where this plan has been

two calgary winners,

thorough spraying with the Bordeaux mixture is valuable help in the way of prevention; but
very crack and crevice of the bark aud the whot surface of leaves and twigs should be covered. stimulating with nitrogenous manures should be hoided. The pear will do with one-third less much potash, lime apple, but requires twice as use, therefore, of hardwood ashes and lime as
iertilizers for the pear, and less nitrow iertilizers for the pear, and less nitrogenous ma-
nure, is plainly indicated as a rational treatment and an aid toward the prevention of the

## Spraying in Oxford County.

Mr. W. A. Mackinnon, Chief of the Fruit Inlure, Ottawa, was in Oxford County recentiwhere he was supervising the application of al ment has arranged to conduct these spraying county have taken and twenty farmers in that The sprays are applied by gasoline engines, and
the leaves and branches are thoronghly coverend that a solution of Paris ercen mixed with sul phate of copper. The orchards in which the syspromise to give heary yields. other farms where Torions insect tromblas, and ince somering. from partment is to demonstrate the possibilities of

Spraying Young Fruit Trees roung fruit trees before they becessary to to spar. This is a mistake, and when sprasing is heing done time and with the same symixtime at the same The fungus
fruit, and the object should the leaf as well as the ever getting a foothold, and be to prevent it from kept free from it there will be little, or, at least much less difficulty in dealing with it when the kept healthy, and that is The foliage will be portance to the health vigor and

## Cover Crops

It is a good plan to sow some kind of cove
tice that is orchard during July. It is a prac and its value is being appreciated by the most a double purpose . it furnit growers. It serves
the roots of the ; it furnishes a protection to tant. There is not now the same protection by
the snow as in for lemperatures prevail during some of the loiv Months, more particularly in December and oi fruit when the ground is hare, and the root suffer injury where they are sorts, are sure to some kind of a cover crop. Then the plowing of the cover crop the following spring adds a great deal of humus
and plant food to the soil. There is ion among fropin growers as to what
is the use for this pur pose; $\quad$ crimson
clover, mammoth and red clover, cow the hairy vetch,
have all heen veche have all been recomgrowers It is im-
portant that $t h$ crop should be a what the Americans and also one that will grow to a sufli-
cient bulk to
form a good thick math,
and that will remain green throughThere is nothing better for this pur-
pose than the comwill probably give faction as a cover If if the orchard other. a good state of is in it will germinate weather be extremely quickly, unless the growth and continue to grow till make a rapid if not plowed make rapid growth in spring, and amount of humus to the soil. Had the peach growers of Southern Ontario used cover crops trees in the trying winter of the loss of so many

## Orchard Cultivation.

There is a danger that on account of the we weather, orchards will not receive their usual
cultivation, which is urgently needed to destroy weeds, acrate the soil, and conserve soil moisture bakes, cracks open and evaporation gored it rapidiy, By stirring the soil through frequent emrface, capillarity is aren mose mime on the tained. As soon as it is possible, therefore, to man, the ciltivator should be tarted in the

## Prospects for Apples.

$\qquad$ ond from lamope that the apple erop is French a from a largo Fench eider manufacturing firm, asking if it
Would be possible to secure from Ontario a large
guantity of apples at reasonable prices. If so

Trapping the Codling Moth. Dhe of the most effective ways of destroying
the coding moth is by the bandaging of the
trees. The bandages may he wrappings from the dry goods stores, of burlap, or any such cheap material. It should be cut in
strips, about ten or twelve inches wide, and long strins, about ten or twelve inches wide, and long
enough to go at least twice around the tree, and tied with a piece of binding twine. The time to
aply theo apply these bandages is right now. They should
not be left any later but shold not be left any later, but should be on the trees
before any of the larve are full-grown, before any of the larvw are full-grown, as they
often leave the apple before it drops, orten leave the apple before it drops, and go in
search of a suitable place to pupate, and the bandsearch of a suitable place o pupate, and the band-
ages furnish them with just the place they are looking for. They crawl in between the bandage and the bark, and spin their silken cocoons in which they
change to a pupa. As it is well known that change to a pupa. As it is well known that
there are two broods in a season, and that the second brood is far more destructive than the second brod is far more destructive than the
first, it is very important to destroy as many of the first brood as possible, and prevent thenl fio perpetuating their species.
The writar has known cases whe the larvie
have travelled have travelled 30 and 40 feet in search of a suitbandages. It is not a costly proces of these mantages. It is not a costly process, as the take long to apply them. It can be done best by two persons, having the strips already cutone to wrap the bandage around the tree,
the other to carry the twine and the other to carry the twine and tie them, once in ten days, as the moths mature in about two weeks after making their cocoon. They may be destroyed by plunging the bandage in hot
water, or what is easier and water, or what is easier and more convenient, is
for the operator to carry a small mallet with
which he which he can crush them quickly, and a smart
man or boy will go over a large number of trees in a very short time.

## Marketing Fruit.

grower has to deal, is the warketing of the fruitucts to the best advantage. The best solution of the question is to produce a high-class article, and it will always sell in any market. It is
seldom that the market is drugged with first-class seldom that the market is drugged with first-class
products. But there are other questions that enter intoo and express rates, the question of shipping on consignment, or dealing direct with the retailer. what extremely high charges by the railways for the burden of complaint by fruit-growers for many a year. The charges are in many places simply prohibitive. Perishable stuff musit be shipped by the more expensive express system, charges. In places like the Niagara Peninsula where fruit-growing is made a speciality, and the growers by combined and persistent effort have succeeded in obtaining some concessions, a better
system prevails; system prevails; but there is much room for im-
provement even there no combined action has been attempted the cost of getting his fruit to market leaves little cost margin of profit. Then there is the question of commission. There is something to be said in favor of the commission men; they handle a very
large bulk of the fruit in the large towns and cities, and often a lot of poor stur criticised if they fail to get good prices for it On the other hand, the grower has no control.
The commission-man, if he chose to be dishonest. The commission-man, if he chose to be dishonest,
has every chance to do so ; the system is un-
satisfactory has every chance to do so; the system is un-
satisfactory, and the sooner it is abolished the
better, and buy direct. The grower will find it thore satisfactory to sell direct to the dealer, and if who has a large retail trade, and always mahe it a point to furnish him with a prime article,
the results are sure to the satisfactory and prolit.
able to both. able to both.

Why Some Sprayers Fail.
 very apt to become discouraged of shd diynne nind
with the results that they may obtain, ought to be a cure-all for anything and evors Thing, rather than a preventive for one thins, ..is She ons, two trials they are led to wrong aboly ing is turly one of the sanitary maresures
necessarty is not an
is not an
insects, neith
insects, neith ent apple scab wris green successfully (inumation of the iwo remedies, if rightyly
variety of troubles. Spraying is an expensive
and tedious process, and it is not worth doing and tedious process, and it is not worth doing at time. This does not mean that it is necessary order to get results. Three thorough applica good made at the proper time ought to insure a Considered from the stap in ordinary seasons. pense, three applications will be about as much there is an epidemic of some kind, or some spe would insect is unusually troublesome, when i [Bulletin 5, Missouri Fruit Station applications.-

## The Maple Scale

ports of the presence of the are receiving re (Pulvinaria innumerabilis). For some reason thi scatio is nore numerous than ever before in this grapevines and Virginia creeper found upon end of June the eggs found in the cottony mass hatched, and the larve at once attached them malves to the under side of twigs and leaves. The with the females, after develop wings, and mate fall before the leaves fall the femnles tached to them migrate to the twigs and fasten are them by inserting their proboscis. The eggs are laid in the following spring. Treatment con-
sists in spraying with kerosene emulsion ahout

the scale on a maple twig.
very ten days, until the numbers are reduced or with kerosene emulsion diluted with strong masses. In towns where a force of water cottony obtained from a hose, the egg masses can be deAPIARY

Unripe Honey Spoils Trade
illustrate the evil results of marketing dife honer, a write
ritw the following
nertion Neekeepers in the main buckwheat
$\qquad$
$\qquad$
$\qquad$
$\qquad$thene.
$\qquad$ ment with huckwheat honey (that atly got hold the manufacturen
$\qquad$
limiter, we have great diffculty in disposing of it " I am firmly of th a price. been for the greed of opinion that, had it not honey to-day would be in as great demand as it was ten and twenty years ago; for at that time for considered one of the best kinds of honey for baking purposes

## POULTRY

## As Others Do It

One only needs to attend a poultry show be convinced that the men at the front of the specialists. They are men and women who are devoted to this one branch of stock-raising alone and uneir methods are necessarily the most methods of these realm or poultrydom. It is the racticable in the successful mand as far as farm birds. Recently
each year some phenomenal from which come ancy birds, and where every bird must keep a is a business of small utility, for poultry-keoping inargin between cost of support and wider th returns the larger becomes these profits
oult this time of the year in the profescional with his the scratching space is covere so that sunfowers corn. The runs are divided be grown to provide shade from the hops ca and, incidentally, food for winter sive meth once sees the benefits of these inteneide to tain it is thet the the systems in vogue on basiness is gaod, an easily be improved, so why not make migh improvement all down the line.

## Hatching and Rearing

simple of construction, easy of operation and cer lar with poultrymen. The most suitable popu ior most farmers to hatch out their chickens is in April or early in May, for the reason that unless provided with incubator room and brooding tures, it would be independent of outside temperato raise chickens in paying numbet impossible Season. Pullets hatched prior to late April May, although they may commence to lay in late main non earl fare are apt to moult and reest value. Onctive when eggs are at their highwhich probably begins to hand, the May pullet, continues to do so without ceasing durin, and season of high prices, is obviously the most suitable bird for the farmer.-[Prof. S. G. Gilbert

## Getting a Good Rate

a breeder of Plymouth Rock fowls "I have been a breeder of Plymouth Rock fowls for, the last never seen the time that I cared to change them from $\$ 2$ to $\$ 287$ have made a clear profit of 1 think it just as easy for several years, and year of hens pay you $\$ 2$ or more gaod laying interest. Either make a dollar pay six per per but it. Either one requires a little headwork don't think there is as much in the it clean, 1 one uses as there is in miving the right quantity the right times. That is what counts.

## Profits from Eggs.

Ggeregating 1250 experiment with three flock Ftation found the average the Cornell University fer yen to be 99 cents. The of feeding a her geg at tharket rates exceeded the cost of food averaged 129.7 total yearly production per hen 7 eggs, and the average per he
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## We Wonder Why

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Double Poultry Huuse at Holmesville.
by f. c. hare, ohief of dominion poultry diviston. last fall at the Holmesville, of Agriculture built Ont., and Bondville, Que., Illustration Poultry, Stations, modern houses for the housing poultry
hundred utility-type Barred plye lets. Two of these housed Plymouth Rock pul-
feet long and 16 doe double houses, 80 feet long and 16 feet wide, one house is a single
nouse, 100 feet long and 12 feet wide stan double houses are built at Holmesville and The manville, Ont., and are described in this article. tions into separate pens, 8 feet by cross partiand 16 feet wide. Each pen will house length producing market eggs, or a breeding pen of hale and 10 or 12 femates. There are separate ex crcising and roosting pens.
The exercising pens are
and 10 feet wide. $\begin{gathered}\text { They } \\ \text { The fet rumning length }\end{gathered}$ possible by means of 3 by 6 feet hot-be bright as in the roof. One window lights two pens
Even in dull Even in dull winter weather the fowls were able to scratch in the floor litter for small grain.
Til e windows are storm (an be raised for ventilation when closed, and window in the front wall of each pen also a window is 3 feet 2 inches long by pen. The inches wide, it is hinged to the plate and opens
inwards. inwards. This system of light and ventilation The rosting pens are 8 feet running length
and 6 feet wide exercising pens and the roosting pens and whe this is closed the roosting quarters are tight and
warm. During the Warm. During the coldest weather last winter
the fowls were comfortule The walls of the houses consist of the studding, covered on the outside consist of the stud-
ness of ness of rough inch lumber ; (2) on the outside of
the rough lunber two the rough lumber two thicknesses of building
laper, well lapped ; (3) outside the buidding Paper, well lapped; (3) outside the building
laper a layer of half-cut siding or claphoards Ther a layer of half-cut siding or claphoards.
The half-cut siding was purchased at from $\$ 12$ to
\$15 and warm; it can be The wall is draught-proof There is no covering inside the studding, except around the roosting pens, where a layer or ox bild-
ing paper and matched siding is laid to increase ing paper and matched siding is laid to increase
tie warmth. The floor of the houses is made of earth. The
level of the earth floor is six inchos above the ontside ground. The floor is dry, and is mads yn follows: Three inches of coal ashes or coarse Wravel are placed on the earth, and or coarse
athees three inches, of light, dry sand Thes three inches, of light, dry sand.
There are grass yards 75 feet the houe are grass vards 75 feet long in front of
vards are the sor 25 feet from the liouses the varlds are the same wiet from the houses the
 sinall yards there is a yard 50 feet long and 16
II 24 feet wide. The fowls of the two or thice Mons have access to the large yard at different
(ines of the day, or on dife tucilitate distributing lifter and dand and and to "Lear the houses, gates are placed in the fences Noar the house. The gates are sufficiently large trough. wide for a horse and wagon to drive mue yards where gates are also placed in the

 The and of moderate cost.
Touble houses built at the Illustration Theions are unverses built at the Illustration the vicinity of the stationsed similar harmers
we been built by farmers us showing that the practical planing of of the urcising and roosting pens are valuable feat
res for our Canadian cheertul pen during the day, and in a warm
pen at night. The house can be built any length
and will give entire Complete construction details of the doubs and singlete construction details of the double
vised edition houses are contained in a revised edition of the bulletin are contained in a re-
Farminable Poultry Farming," which will be mailed free of charge on
application to the Poultry Division application to the Poultry Division, Department
of Agriculture, Ottawa.

## Fattening Chicks.

don't know that 1 can say any feeding poultry, I my experience has can say anything new. So far
Rock for fattening feen fuvor of the Bartad breeds tried at the Station were ten or twelve Rocks made the best gains and presented the
finest appearance linest appearance when dressed. Our main feell
for growing chicks is a mush ior growing chicks is a mash composed of equat
parts cornmeal, buck wheat mixed with buttermilk; the mash (ground) and bran, crumbly. This is almost our sole foed soft, but time they are a few days old until they ate reat ior the crates. At present we have a lot that weighing over the this, three months old are crated at three pounds apiece. Usually they ${ }_{2}$ tren taken from them and oats and the corn is with buttermilk is or piven 1, buckwheat 1 , mixel main ration for crate feeding to oatmeal is the and would do well as a complete ration if the chicks did not tire of at comprete ration if the I think, if farmers would raise a good feorling
rariety of chick a ariety of chicks, which at the same time makech and perhaps the Orpingtons, much Ware totes. he realized from this hrand , much more coulld mand for the right bird cannot be supplied Those who do not care to fatten and dress themor four pound chick from thor for a thrifty thice (

The Poultry Vard in July, One of the pleasantest months to the poultryan idea of "where he is." If the month he eatis the year has been thoroughly done, the egrs for able to congratulate win-matici stock, he will be views the well-grow in complacently But the work is not all done Tho . specimens: are here, and an abundance of shacto nust be pro-
vided, not only for the birds, butt vided, not only for the birds, but for the drink-
ing water as well. The hot well.
Tice-lice of days are also the breeding time forts must be fought persistently descriptions-and they cause you have a pure-bred strain not fancy be cubator and brooder-raised chickens, they or innot have lice, for they will. There are varieties their vulnerabe, and each have to be tackled in The "'red mit parts
ever there is a mite" infests the houses, and where-
sure a crevice sure the red mite has a nice home there during
the day the day. During the night he will sally during and feed on the birds, destroying their vitality, lowering their egg-production, and wasting your
good feed. good feed. A coat of lime-wash, in which is
mixed some crude carbolic ncid sither laid on the walls, settles their hash for ayed or time, and brightens the birds' quarters a long fooc way is to stop all ventilation and burn somewhat candles in the house. This is a necessary that the towl hous and precautions aro and the house must be well ventilated before hirds are allowed to enter, or they will be the cated. The body lice can easily be seen: if the birds have been supplied with dust baths, they
will cleanse themselves some with insect powder does them but a good dusting way can be used. If you regularly, or a simpler paint the dropping-board and roost pole with composition of coal oil in which naphthalene flakes to a cen dissoived-about one pound of question to have oil-you will find the lice applies to the coops, colony houses. The same you raise your chicks in poultryce the lice question is the bete noir of pouttrydom, a little work regularly done always
keens they will supply themselves withave free range and vegetable foods; but if confined thet animal be supplied to them-the former in small and the latter in large quantities.
to your birds as the grit. This is as necessary o your birds as your teeth are to you. Many,
many cases of so-called cholera can be traced to a lack of grit, and of indigestion case of diarrhoea is the result of "no grity "very red and gray granite boulders occasionally found on the prairies make capital grit, and a stonereduces the rock to suit, properly applied, soon granite rock is not handy, limestonens. if the ter than none, and is made in the grit is betseen to month, too, the fattening crates should be try, but will come not much used in this counfattening crate may more and more into favor.' A rattening crate may be anything up to a slightly
darkened room.

joy of morning.


birds: pravent them exercising to any extent: thu
causing all the food consumed to increase th Three weeks to a month is quite long enough about the good of the fattening you are skeptical a trial. Take, say, a dozen chickens, treat six as you usually do, and confine the other six
Have fresh, clean water before them all the time Feed them three times daily all they will eat up clean in twenty minutes, with soft food, not too wet, composed of shorts, oat and barley chop, meat food thivice a week, and seè the difference in The ideal food for hirds in a fattening crate n the Old and husk of the oat, ground to flour business by itself, the birds being bought lyy the atteners while in but fair condition, and the iner pound, amply pays them the increased price QUESTIONS AND ANSWERS 1st.- Questions asked by bona-fide subscribers to the "Farm
r's Advocute" are auswered in this department free.
 fore, we reserve the right to discard enquiries not of genera
terest, or which appe ar to be asked out of mere curiosity.
srd. - Oucstions should beclearly tofed Srd.- Questions should be clearlystated a and plaininly written,
on one side of the paper onl and must be accopanid by the
full name and aldress of the writer. as a avaranted of the

fth.In veterinary questions, the symptoms especially must
of tily, and clearly stated, othervise satisfactory replies can
not be piven.
$\qquad$
Veterinary

## Answered by our Veteri

Colt was sick with constipation when twelve hours old. It knocked about a good deal, and
broke the skin around its broke the skin around its eyes and the hock
joints. I treated it, and it got all right, but a hathed it and it burst. The joint is still large and discharging. Some days after one hock swelled, I opened it, and a good deal of matter escaped. The swelling is now worse, and hard
and painful to the touch. It can use the limbs and painful to the touch. It can use the limbs Ans,-Your colt has joint ill, caused by a germ gaining access to the blood through the navel opening. Treatment consists in opening the
abscesses as they form, and injecting an antiseptic as a two per cent. Solution of cariolic ari into the cavity three times daily. Also give the mother's milk three times daily. It is not probable the colt will live, and if it should it will probably be a cripple, as the articular cartilages
in the joints affected usually are destroved. This disease has been discussed and preventive measures given at least twice this season in this
journal. Prevention consists in navel opening as soon as possible after lirth, and
several times daily until healed, with corrosive kublimate, 10 g:s.; water, 8 ors.
knuckring soratches bull with skin 1. Five-year-old horse knuckles. He has had scratches since February. Would that cause
knuckling? Is it blood trouble that causes 2. Bull has some sort of skin disease. I think Lanark Co, Ont. Nns.-1. It is quite probable the scratches
ause the horse to knuckle. Scratches are usu ally caused by carelessiness in heeping the pas
terns clean, but a poor condition of the blood fredisposes. Poultice with linseed meal applied nd nights. If phond flesh be daily for two days once daily with butter of antimony applied with



 olution of zenoleuil or creolin.
Atrorty or or the vider. Two of my cows show imlications no tharten. Thtrere is no anparent discase., bult:
 Ansin in ind probabitity the urvected quart ers Hoot ticelt Momby, stuch as you describe, is

Mare Colt would not suck
scaped from the 10 mos. and 11 days; milk had foaling. The colt was smart, and would hrough the form of sucking, but rould not take
the teat, then lie down contented for a the teat, then lie down contented for a while, get
up and operate as before, etc. It lived only 24 hours.

## Simeoe Co., Ont

Ans.-Of course the colt died, as it got. no he colt in position attendant should have held and manipulated the placed the teat in its mouth milk to run into the mouth. This would the urobability, have started the colt wour, in all if repeated a few times. If not the mare sholi have been nilked and the milk given to the colt sut of a narrow-necked bottle frequently, in It was quantities, until it learned to help itself. to allow the colt to die part of the attendant to allow the colt to die from want of nourish-

## fatal case of influenza.

My horse's face swelled, and in three day
lied. My veterinarian said it med. My veterinarian said it was influenka and
blood-poisoning. He did not cough, but hat difficulty in swallowing. Is the discace had tagious, and is it necessary to disinfect the
stable? If so, how long before it would be safe table? If so, how long before it would be saic Elgin Co., Ont
Influenza is liable to be complicated ess correct. affections, and in this case blood-poisonimg many sulted and caused death. Influenza is infectious, the virus is of a volatile form and mixes with the stable which it be good practice to disilnfect the whitewash or other disinfectant use as soon as other disinfectant used beoomes

## bone spavin.

puffy swelling appeared in front of ame, and a blistered it four times, as I was hock. I 1.lood spavin and blistering would cure it Nas the is a hard lump in front and down low on apparent cause, but soon goes very lame without told it is a mome span gets over it. I am moved or the lameness cured and is hip be reness likely to be permanently impaired? usefiul-Ans.-Ther. M. The lump cannot be removed, but it is bome span. Probable the lameness can be cured by skillful be successfully performed only the operation can some cases the lameness cannot be expert. In usually it can, and the horse will suffer no further inconvenience as far as his usefulness is coneffect a cure, but it is usually batter to fire will first.

## Cow with a cough

We thought our cow took a cold last winter.
Her breathing is very hard now, callecially after exertion, and she coughs Brant Co., Ont.
Ans.-There is little doubt your cow is tuberthis disease causes such well-marked where symptoms, it is better to destroy the animal, as You might have your veterinar using the milk. tuberculin, and if she passes safoly test her with test, treat her by applying mustard, through the and giving 1 dr. iodide of potash, might and morning,
culosis.

She sometimes ware is weak across the kidneys Is " very Pree driver. 1 cannot get her to tahe linalthy; her skin and hair are fine, and she look
Gictons Co, N.S.
willer two or three hours. 1 do not think there is anythiner w. W.
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COUGH AND HEAVES

1. What shall

Give cure for heaves.
Ans.-1. If this horse has hot devolonen cough. Give him every night and check the ball composed of 2 drs. solid extract of bell a and 15 grs. camphor, $1 \frac{1}{2}$ drs. powdered opium. constipated give 1 pint raw linseed oil becom 2. There is no cure for heaves. The symp oms can, be relieved by feeding carefully on foo ften. Dampenall in small quantities and and do not exercise' arger quantities of grain and less bulky food sol

> CATARRH AND APOPLEXY IN COW.
Cow began to cough last December
neighbor said she had hollow horn; he split h tail, put pepper and salt in it, and tied it up She appeared all right from that time until two
weeks ago. She couphs and dischares the nostrils. Last Sunday she took git from houth, etc., for back quite stiff, frothed at the looked well for about ten minuted, got up and and milk. What wild. She is failing in flesh hiorn? Rany Ther District. The conditions that lead quacks to diapmose horn how horn are unthriftiness and debility; all cow's dently has chronic catarthow. Your cow evi Sunday from an attack of corebrit suffered on ough indicates tuberculosis. It would be well to have her tested with tuberculin. If not welv salts anght purgative, of say, one pound Ensom sfalts and one ounce ginger. Follow up with on sulphate of iron of ginger, gentian, nux vomica daily. If she should show any symptomis twich tier fit, draw about one galion of blood from

UNThRifty pigs.
Tigs, three months old, fed on chopped wheat when dails, thrived well until two weeks aro and gaunt, and eat little, cough, and very thin diarrhoo.
Fssex Co.

Ans.-Your pigs have chronic indigestion, reen f of exercise, too high food and want duc bout 2 ozs. If they are constipated give each (clover, if possible), feed on milk, bran and feed lightly and gradually increase the and then CRIPPLED PIGS
Irigs just weaned have lost the power of theil

Ans.-High feeding and wat of evercise caisel coung pigs. Com-meal is too strong food for 'atw linsead oil. Feed on bran, shorts and mill
$\qquad$
Strong colt, three weeks old, went lame thre the stitle of right leg. Ans.--It is probable your colt has partial dis
ocation of the patella. Keep it auiet int till
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$\qquad$
$\qquad$with a dirty, rough coating,
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THE FARMER'S ADVOCATE.
infectious amory
dairy herd in the past year. I have about 20 prevent abortion? Dundas Co., Ont.
a herd without apparent cause, we are occur in in assuming that the herd has the infertificul in assuming that the herd has the infectious
form, which is very serious. The disease is due to a germ, which gains entrance to the genital Organs of the female through the vulva. The
vinus is readily intraduced, and is communicablo male, or vice versa, by copulation from female to iontuses or genital discharges, from aborte pails, stools, etc., that may have come in cong, tact with a diseased animal, or from an attendinfected animal and a healthy pregnant one may 1.hese facts we see thation. It we ackoowledge sary. The noninfected cows should be removerto healthy quarters, and no comminication what-
ever be allowed by attendants or ever be allowed by attendants or otherwise with discharges should be hurned fotuses and genital not expelled, should be removed by hand and burned. It is well to get a barrelful of a and antiseptic, as a solution of bichloride of mercury,
40 grs. to the gallon of water 40 grs . to the gallon of water. The antiseptic
is used in such large quantities it is better prepare a large quantity at once than small ways be heated to 100 degreas solution should alNromb of an aborted cow should be flushed out with about a gallon of the solution, introduced charge ceases be washed with the solution daily should alico ment from disealsed animals should be bumed ex inixed with quicklime. If a vaginal discharge cracted so that the neck of the womb has conintroduced, an ounce or two pump cannot be should be injected into the vagina until the dion charge coases, after which the animal shoulld be temoved from the diseased herd, but not allowed with the healthy for some weeks. An aborted months, better if allowed to run nine, after diseased animals should not come near the bealthy, but if sufficient help to allow of this be not procurable, he must change his clothing and
wash his hands and arins in the solter foing from the diseased to in the solution before is good practice to wash off the vulvas of the healthy cows that have been exposed, with the solution, and inject about an ounce into the that may be daily, in order to destroy germs lred to a diseased animal should not has been again for at least six months, and in the bred time his sheath should be flushed out twice weekI. with the solution. A bull that is being hred
in a cow that evidently is not diseased, Lut has sheath flushed after copulation. When the herd is apparently healthy the stables mut the herd Whghly disinfected by a thorough cleanimg and "ashling with a five per cent, Solution of car-
lulic acid, followed by the application of a coat cent. carbolic acid, All contothing, pails, fork: broms, etc, that were used in the the forfectel hanthy stock is reintrodaced into the premises ajomsive, but half measures in cases of this kind or little value,
GCRATCHES in stallition-green fondir, ming from walking in wet ; the scratches have mall dry scabs. have left scars on which form
slease tell me how to prevent 'ahs forming ?
2. Is a mixture of oats, barley and wheat, "nt green, good for a stallion, or is it likely to
"CLYDE," Ahere - If the scratches are entirely cured and promote a healthy growth of hair than fresh .1. or sweet oil. Wash well with castile soap 2. Barley, oats and wheat either of the above. Conder, give very good results, but while not apual to peas and oats, it is not known to have any injurious effects. Barley is not advisable in mixtures for green fodder on account of the awns bien troublesome, otherwise no objection can be

## antargmiment from calk.

Ware calked herself in front of fetlock. The
ts have healed, hut there is a hard lump left. lis - Fomlarements of this kind are w. S. Sam minow Repeated histerine will wantath daily thmp, but will not entirely mome it

## 1. I wold like a

of the "Farmer's Advoow, through the columns ter with our calves? They seem to is the matbreath. They pant continuously, and they also cough, mostly while drinking. Those affected or and get thinner, and finally die. Any cure received.


Manager Western Manitoba's Big Fair, Brandor
ase cows slipping calves, please let me know? 3. Please let me know if th
ful cure for worms in horses ?

Red Deer, Alta. "SUBSCRIBER." Ans.- -1 . Your calves are probably suffering ease which is sometimes called "husk," a dis one to twelve months old. Tt is calves of from presence on the windpipe and bronchial tubes large number of very small thread-like worms Filarim bronchiales), about half an inch in length Chese parasites are lodged in and protected bs of life, renders their dislodgment and eliminacity a matter of some difficulty. The treatment Sists, in administering, twice daily, in a little warm gruel: turpentine, from two teaspooniuls Another mode of treatment which tablespoonful. cessfully employed, is the inhalation has been suc


## President Western Manitobra's Big Fair, Brandon.

cas; but as this gas is poisonous, its administraion should be under the personal superintendence of this gas, although fatal to the worms, wous ,e equally so to the calves. The fumes of thornne tar may be ithaled with berneficial effert, and 2. Abortion is of two king poisonous
lents, errors in diet, improper sanitation ease, acute or chronic improper sanitation, dis digestive, or respiratory systems. Epizootic o a micro-organism is intectious, and is caused by mucous membrane, and is the genito-urinary مow to another: hence, evern or herd is sometimes the subject of this breedar's and dairyman's scourge. In contagious abortion are the only system of cleansing and disinfecting cessfully only measures with which it can be suc-
combated. When a cow ahone should be immediately removed and ahorts she the rest of hend. The foetus, litter and all discharges should be removed and burned. The stall, or place where the cow stood, should be bing thoroughly with water confected by swabof crude carbolic acid to the pailfulng one 1 int nind parts, including the tail, should be well washed with warm soft water and carbolic soap and afterwards apply the following lotion :
Perchloride of mercury quart. Inject the vagina with about water, one of the lotion. Apply the lotion every alternate day for one week. If a cow shows any signs abortion she should at once be separated from the others. Prevention is the best remedy for 3. After preparing the animal for a purgative in the usual way, give to an adult horse : Barground ginger, two drams ; calomel, one dram; cient to form a ball. Feed exclusively on mash up by giving, morning and evening in food for one week : Sulphate of iron, nux vomica, for tian pulv., and nitrate of potass., of each, one corns.
What can be done to cure corns on a foot? Ans:-Remove the shoes, pare well out, cuttimg. a groove on each side of the corn to relieve the low, damp pasture, always looking well to the

## Miscellaneous.

The leaves and firuit are from our apple tree little green insect with black eycs and black a on its sides. They are on the under side of the attended are going to destroy the trees if not as a remedy ? once. What womld you prescribe Ontario Co., Ont
The Ans.-Th's is the apple-tree aphis (Aphis uati) hatch about the time the buds and the young he spring. These at once insert their beaks gin to feed on the juices sull the buas, and loe this season are females, and reach maturity at en or twelve days, when they commence to give birth to living young, producing about two per ay the season advances, sond are just as prolific. As grate to form other colonies. When cold weathi approaches males are produced, the sexes mate and eggs are deposited for the continuance of the fosted by thes season. The leaves of trees int 4 wisted backward, forming ane distorted and tains. The scab, on fruit often-owes its orisin oo punctures made by these lice. The best remedy is to give the tree a good cleaning it
yinter by scraping off the rough bark and washing with caustic washes, as the whale oil soan solution. Spraying about the time the buds are opening with strong soap, suds or weak lye is
rood. At this spaton nothing is better than to spray with the kerosene emulsion made by mixsour milk. The ingredients should be warmerl chumed through a thoroughly mixed by being chumed through a spray pump. The application hard to get at all the lice when the leaves are
thick, as at this season. It would be well to A spring frost is the common bourn the hranches
pests, and their tiatural pests, and their natural encmy is the to thesper Has sambust in meryent lust into the river? " tight to domm satw
Coaticook, Qur Ans, (ienerally speakinge, no. That is Would be actionablo others, and such damage would me might hon affoctont is to just, how others tred the extent. comespondingls, of the risk the

What is the cause of cows chewing bones and bits of leather Ans-An hanusual number of people are asking us this question this season. The answer we
give in each case is that it is due to an alnorgive in each case is that it is due to an ahnor-
mal appetite, or the want of salt. Just what may be cultivated, or it may he due to a lack in the feed of some of the mineral matter essenfiyed from hal nutrition. The nourishment de of soils varies considerably, and able that upon certain lands the stock may not eceive a sufficient amount of certlain food conctituents, hence an unnatural craving. The always indicate the element of nutrition does not in the pastures, but is eaten in some cases appaently as a matter of taste. If the pasture is ood and the cows are thriving, we can suggest to other remedy than the keeping of salt before filthy material for which they seen to crave
Cows cerwirg bones.

1. Why do cows that are on pasture and have Wive cure for cough following distemper. hecked?

Ans.-1. This is due to a want of phosphates wice daily.
2. See ar
> swer to

## sterile oraphtine.

$\qquad$ every spring of being loaded with fruit, but about hears. Please tell me what I can do for it ? Fronterac eo., Ont. 1 . T. F. of the variety, or whether it is growing alone or in proximity to others. From the facts to produce fruit is owing to its inability to fer tilize its own blossoms. There are several varieties of grapes that are self-sterile, such as Black
Eagle, Brighton, Wilder, Salem, and several others of the Rodgers hybrids. These should be planted close to varieties that are self-fertile and able to fertilize the blossoms of others, such as Concord, Niagara, Agawam and Delaware. The one of the last named list of self-fertile variettics close to the vine in question. Green Mountain which is a white grape of good quality, is also a good polenizer, and would probably suit the others. GINsi na Clltube
> graph about ginseng (the variety which a para- ported to China). I am very much interested try and raise some. Wore about it, as I want to the following Where can the seed or roots be procured? Where can the roots be markoted ? 4. Could you tell me where i could get litera ture on the
Oxford
C Oxford Co., Ont on dre Ans.-1. From the wild plants growing in the
woods. You might wet the lndings to some for you the coming fall.
2. There is a fairly good demand for the root and almost any enterprising druggist will handld firms that buy it. ranges between four and five dollars per pound or the dried root. the cultivation of ginsenge



 rense) and in some instance ancere the soil
 slaregly grown without the introduction of in ne of the worrt weed pests of Nanitoba. Whem

$\qquad$

## JULY 15, 1903

shot-mole fungus on plum leaves

ceived samples of leaves covered more of
less thick1y with
orownish spots. Wo
judge it to Judge it to be the
earliier stage of the
shot-hole fungus, which
first first appears in the
shape of simat shape of small, dark
purple spots scattered purple spots scattere
over the leaf. Thes
spots soon becon brown, and the le
tissue composing the
dies dies. This dead tissue
generally drops out of
the leaf in the cous the leaf in the cour
of a few weeks, lea
ing circular holes ing clrcular holes r
sembling shot hole Sembing shot holes. these spots generally blackish one or more sisting of the fruiting
spores of the fungus, spores of the fungus,
by means of which it
passes the winter and propagates antsel treatment is suggested similar to that recommended for
apple scab: one spraying with dilute Bordeaux mixtur Bordeaux mixture then two or three sprayings with and one of the arsenites, after an excess of lime fruit forms, which is
the most promising the most promising treatment for both insect and
fungous pests sellina boar - sweet clover ensilage, months have a pure-bred Yorkshire boar, about 18 months old, which it is intended to turn into pork
How long before being killed should he be castrated Hew long before being killed should he be castrated
He, apparently, has only one fully-developed testicle
Will removal of that Will removal of that one be sufficient? Can the other
be easily removed? If the be easily removed? If the other be not removed, wil
it develop when it alone remains? Will it be sufficient do make the flesh rank? Just what had better be have been sold for breeding Should such an anima 2. Have any experiments burposes tri
ability of the tall white or yellow flowered "sweet
clover", for clover" for mixing with corn in the silo? I refer to
the rank-growing varieties which we see along railway tracks. I know it is too woody for hay, but railway it might do if chopped up and mixad but possibly material in the silo, where it would become partially fermented and much softer. if it were suitable, it is
possible it might solve the problem of how most cheappossible it might solve the problem of how most cheap-
ly to get a nitrogenous fowd to mix with corn in the silo. get a nitrogenous food to mix with corn in th Ans. - 1. If you make pork or him, he will go as
a stag, and bring from two to three cents per pound a stag, and bring from two to three cents per pound.
This is probably the best you can do with him. As
it is puident he it is evident he is weak in the genital organs, he should three months should elapse between time of castration and sale to the drover. If the imperfect testicle can-
not be grasped and removed, the meat will not very chrice pork. been made with the ensilaging of experiments having probably because the clover is not a cultivated crop and of
the difiference in the time the two crons come in The diflerence in the time the two crons come in. I, ate
crops of alfalfa have been used for the purpose of improving the feeding value of the corn ensilage, and this clover is perhaps the best of the crops for this pur-
pose, as the first crops can be used for hat and the

> NOTES AND NEWS.

New President of Iowa's College.
 P.wident Beardshear. At whent to succeed the late
woms to decide. Iowa is a great agriculter for the state, ond the farming classes were united in their support Mombi, most of whom are graduates in engineering,
I'm. Stanton was the .S Stanton was the popular man. When the votes II six for Stanton. The deadlock seemed to be hopeDis, pastor of the M. E. Church and Dr. A. B.
, Was elected unanimously. This solution was for - for the welfare of the college, for although Dr Whim to direct affairs about the college so that at to the advancement of the wother. The decision
regents seems to Wity of those interested in the college, as it affords 1rofessors Curtiss and Stanton, who are specialtheir chosen work, which otherwise would have We been laid ask, which otherwise would have
to make room for purely

THE FARMER'S ADVOCATE
Death of Mr. W. B. Watt.
William demise of the well-known stock-breeder took place at his home on July '1st, was not un triends that he had been the a subiect of of of his and painful illness, which lie bore with a long courage and christian fortitude. The announce dening to those wh, however, none the less sad was to esteem him hichly able man, a man of unswerving interrity
fish and fish and always justly considerate of the timelby the stock-breedernory will long be cherished of the most successful Canada, not only as one ranks, but as being fair fronk his day in their all circumstances, his word being considered gen in his bond. The was, moren than with the genius ofs, gited, in the highest sense judge, and the skill of acer, the intuitions of a feeder, all of which is attested by and successful record made by Shorthorn cattle of his breeding ing a long sers at leading Canadian shows, cove lieve it will be chearfuly acord which we be equalled by that of any of his contemas un The influence of his excellent work as bounds seen and acknowledged far beyoncil the potent for many hers, and will continue to be ment in the selection of come. Hises grood judgwas largely the secret of his success ac his herd Hero and Rence of the noted bulls, Barmpton tuined for many years, amply attests; ; while Chal-

ied at Salem, Ontario. watt.
lenge, bred in the herd, made nearly if not quit
as good a record; a trio for good perhans has extended of any like number used in any one herd in that Counnion. Mr. Watt was a native of Wellington hiis death. We is survived hear at the time of Who was for many years his partner in business won by the firm a generous share of the honors widow, one daughter and two also leaves : Jaunes, the former having just attained his and

## Live Stock Demonstrations.

## Ferritories on farmersen is at present in the Northwest

 rial and Dominion Departments of Agriculture Territo course of an interesting, letter he says: "Our neeet-ings are quite successful. the open air, but when the weather is unfavorable we been speaking from two and a halif to threo I have every afternoon, the meetings beginning at two hours strated sometimes continuing until nve. I have demoncatte, and have had some horses, dairy cattle and the ef
fialilions Lor ons, also Shurthorn, Hereford and Ayrshire callue
$\qquad$ Prof. Day Remains
 Collece. The Government was stronelyly urrariculural
ing farmers to retain his services, and have advanced
his salary to $\$ 2,000$ per year, and he has consented to

Sugar Beet in Waterloo County. choice of location when it decirinell onted, made a wise
at Berlin, its factory
tyme counly typical soil for growinn cur of Haterloo, which has a extensively reared in this country. which is cattle are Germans, who are characterizedi for their thriid by dustry, economical habits and close application. No
except the exce resting ually experienced realize the tremendous year of the establishment of the theot alike the firs Which cannot begin in a small way, hul in industry out the first year with four to six thousand launch
Unpreerand large acreage lack of sufficient labor, inexperience, make the initial diffcultios almost innumuern feve circulated the and other papers lately, the umhtlessly
indiowing
injurious . "A number of the, clerks of rural municipalities, ; making returns to the Bureau of Labor, indicate the
widespread desire thay have for the sugar-beet factories. On the other hand thishment o Guelph Township strikes a note which shows the
realization is says: - Ruring the wear diferent from anticipation. He beets were cultivated for a large acreage of sugar Berlin. I may say that for the sugar factory at
acreange that for 1903 there is a very small This article states that the acrenco sugar factory is less this year than it was the Berifin ers who grew beets in 1902 were diserence that farman inference travelling out among the prospective Such growers injures the industry as well as the farmer who
reads it grew beets in flact is, there were 830 farmers who growing this year for the terlin aver 1,200 who are is an increase of over 400 growers this year . That Not only is the acreage in Waterloo County
under the cultivation under the cultivation of sugar beets for the Berlin
fuctory acreage is considerably greater this year than total
last The necessary evil of large acreanes int judicious case last: year, does not exist this yenr. juicious aistribution of those large acrenges amon
many has occasioned the misconcention of the Township Clerk wh ens misconception of the Guelp the publication of such incorrect and inurious ity fo ${ }_{\text {In }}$ In many ways. located and righty the sugar-beet industry, wisely the farmer, but these beneits, being confused the first
year with the difficulties of ine realized until the second year after the estantanishumbly Clearly clearly perceive increased profts in sight, through de
creased cost of production, of which stances might be advanced, of which innumerable in ing is less than half the cost of thinning and clean illustration of this tact, take the case year. As an Snyer, Berlin, whose eight acces of fine beets cost Mr. $\$ 1.00$ and one meal for ten hours' work, and hild help himself the same. Few growing their second crop teve estimated the cost of thinning and cleaning sobove
$\$ 4.00$ per acre. ${ }^{4} 4.00$ pher pulp, which is being freely fed mornings and and of beet $0 \mathrm{grass-fed}$ stock, which, as a rule, greatly relish it ins larly fromen Battler, of Baden, is drawing pulp reguinforms me that uly several miles to his tarm, and his cows that are on pasture given might and mivorning both calves and pigs: while on pasturo the tred same cows give milk enough to supply only the culves
There pulp is tod Numes, much more butter malle when from feeding pulp might be given. 1 could tuention
the names of the names of scores of farmers who have fecl und who
know that beet pull| is much suliwior molped turnips.
Not only is there a direct benefit derived sugar beets, but, indirectly, the turined by growing
through his land becoming ullivation of sugar beets. Take for proed by the rain crops following the sugar beets of example, the Waterloo: Frank Shuh. Waterlon of the County of Meve of the Township of Waterlon; L.ouis Schweitzer
Bridgeport: Berlin: and many others whose fudtrment canneber and mand talking will not disabuse their minily of ithe idtean that sugar beets are hard on tant. This is not the case,
however. as hundreds of farmers a. It suits me all right !". .. I'm satisfied !." ... Just tichled with my beet crop," are the remarks now
hward from intelligent leading timp s based on experience. County, sugar-beet industry is a surcess in Waterlod County, and will be appreciated more and more by our country as sugar factories become estalished is in
suitable localities.
A F. SHUTTLEWORTH,

THE FARMER'S ADVOCATE


The Macdonald Institute.
Macdonald Institute at Guelph has been made by of Gravenhurst High School, will be dean at of $\$ 1,400$. The lady principal oi the domestic science of the Teachers College, Columbia Iniversity, New
York City. Her salary will be Katherine T. Lyman, M. A., of Montreal, will be science pointed instructor in domestic economy. Dr. Muldrew those competent to special attention to ilsestry and nature study, has pive? large collection of plants and shrubs in the pround surrounding the high school building at Gravenhurst The authorities are now at work arranging the course September. An effort is expected will be begun in course to the varied needs of the different classes of
thank Him for this, the second balance our Missionary
lepartment has cver shown. There is now hope for the
additicnal missionary of whom we have been so lony talking. The field is enormous-over 70,000 square miles. Our
two workers seem lost in it, yet last year they visited cluding the addresses made to day mend sumday not inMiss Sproule distributed 5,530 papers, magazines
and tracts and leaflets in each of the 850 individual homes visited. Mr. Leckie distributed 4,275 lbs. of
literature, 2,965 song sheets, and about 20,000 leaflets. bags. Miss Sproule travelled by rati, boat, burpy waggon, sleigh and on foot, 4,225 miles, and Mr.
Leckie 4,000 miles. Mr Leckie estimates that he met and addressed 20,000 men.
We have now spread before you: first, the expentifige, and, second, the work accomplithed, it, May far as
Youre for continued aid ? Sirroule's last letter but one, to me. "olbe hall no passing it on brause it shows so vivily the nature
of her work. Miss sproule is an wray-haired Scotch
woman, whose phosical stroneth is continuat amazour London, Mit. MAY R THORNLEY.

## The Jubilee Presents

Muskoke District.
Spring opened early in April, and in this district farmers commenced seeding as soon after as they could in before the spring rains and grot sprouted is doing cases, a failure. Hay nle was put in later is, in many will not gather going to be worth cutting. $A$ rake Grown here, but we believe badly. Very little corn is into this district before long, as it will be introduced ofeed a greater number of cattle. Farmers are bieed rarts and Percherons. Thousands of isitors fiom an their summer holidays, ample accommodation here Weated by the many hotels on the shores of the fiall are going into more poultry-raising and the Assureal. There are three large be a reasonatele pice Gore than 15 c . or 20 c . eacll for early spring we askent ontside of the district, and these will soon tave to chens and sell them for Farmers rannot raise good
weth prices. as they are mathing enough
c-operative 'Testing of Dairy Herds.
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$\qquad$
$\qquad$
$\qquad$
$\qquad$

Eighth Annual Meeting of the American Association of Farmers' Institute Workers
A very interesting address was that of Mr. Andrel
Elliott, of Galt, who discussed the subject of $\cdots$ Institur work from the standpoint of the worker. tirst raised the question as to whether the institute
would outlive its usefulness? The answer lay in the character of the speakers. Institute thought must be adanced and modern.
An institute speak
Aleck," The delegate should have a purpose smart shourd not be a political "hack," but should be an room in this fast age for a slow man. It is a disadvantage to a speaker to have a paper. We must
have something new each year, something practical Farmers now want advanced thought and practical.
facts. The practical fientific a great end by bringing people ap to this has serverl wide-a wake man can often tell what a district needs
better than those at home how to do this. The bowed heads of those observing farmers can tell at once whether this is the case. Just
now, a vital point is to thee efforts of their wives to maintain and improve the lome. The home is the bud of the tree of human life.
('aie for it, protect it. it is of more importance than the land, stock or anything else in this world.
Coming from a hard-headed, practical Scotch-Canadian f.amer, these remarks carried unusual weight with the
con.intion. Mr. Hy. Gilentenning, of Manilla, followed on the
same line, and, said a delegate should be on good terms
with an audionce with an audience, and to be on these terms one must fore a.l audllence, try and pick out the strong faces, and f. i.olous, Keep a question drawer to the more and bring it on first to secure a large attendance.
Deal with all questions Deal with all questions on farming, and ignore any-
thing that is introduced for a "lark." Always try
and draw and draw out something in discussion. If possible, get
the questioner to answer his own question. If it answerable. say so at once. Use question. If it is una man with a pet scheme, and try to make a friend of
him, as he often makes a gald institute worker. A him, as he often makes a goxd institute worker. A
problem for us now is to get men out to the after-
noon meetings noon meetings. Many come to the evening session,
and get a false impression of the work of the asti-
tute. Too much entertainnent distri.ts. It is not good. We should try to introwhere the merits and demerits of stock toighboring farm, cussed. Two-day meetings would help to this end.
W. G. Vincenheller of disposing of the universal "auntie," who is alvany tearing the arguments to pieces on false grounds. Mr.
Filliott says he would give him enount ret Elliott Says he would givg him enough rope to hang
himself. Hy. Glendenning bays he would get the fellow F. E. Dawley, N. Y... finds fewers smart Alecks every Don't hit him unless you can hit hard go to seed. WOMAN'S PART OF Institutes. On Wednesday evening, the programme took the Therican friends were much interested in this part of
II.- convention, and took notes copiously. Mis Madtock, of (iuelph, was the firstes speapiousis. The Miss
of the institute in relation to the woman of the farm
is both directe and indirect. It broadened the wiow of

 theap paper flowers in the country, (ble. Thin Whath servant-girl problem. The addrest al a Young Propley And The Fabm.
Honorable John Dryden took up the question sting the interest of the young peoplle in ayrio er that has a passion for other lines of work cing to select for the future farmer. Too long we
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$High schools wood and essential edur

henes, where the boys are farming enthusiasts. Ottawals Popular Exhibition.
 Work was all too evident. The Institute is of such ful developer of talents, where women practice interli-
gent discussion. Woonen now make gent discussion. Women now make their institute e
bureau of information. was the subject of the address AGRICULTURE Minister of Agriculture flor Ontario. C. James, Deputy of agriculture could well be introduced romantic side Work by giving racy talks on the lives of such men as Bakewell, the Booths, Cruickshank, etc. Every
person has heard of our of the attendants at pur Intical benefactors, but few heard of the great agricultural benefactors romant:c features would be a recount of the develop ment of a clover plant, of a grain of corn, of live stock, of butter, of horticulture, etc., for behind the romance more interesting that with these subjects is a Miss Smith, of Hamilton, outlined the fiction. organization and conducting of Women's mnstitutes and outlined the objects of the same in stimulating a
liigher ambition righer ambition. Man lives on his ideals, not on
bread alone. I'ialist for the U. S. Gocently appornted Institute Spetute specialist and the associations could the Institime in which to formulate his plans, he has a shlerealy appreciated by all those engaging in Institute much
in the United in the United States. of Institutes and said that whether the institute will con agricultural college and the experiment sense that the continue will depend upon the effectiveness of will organization and of the character of the work done by
the institute mana the institute managers. He did not believe that the institute will be permanent along present lines, for he
thought that the time will come whe the institute as now conducted will have nassed away for the practical man, not that it will be abandoned nerhaps be renamed as an inctitutigh grade, and tion of teachers in the public sctition for the instrucme child rather than the man. This, however reach matter of speculation, for the institute is here to stay A trip to the Agricultural College and sipht. cteing about Toronto were features of the convention which
the Amerimens enjoyed immensely 1903 con:ention the most successful in the visted the the associaticn. Next year's convention will be held

## Travelling Dairy Maids.

Miss Laura Rose and Miss Annie Rose, of Guelph, or superintend travelling dairy schools throughout the by Miss Laura Rose, instructor in farm dairyiners ago Ontario Agricultural College, and harm dairying at the now.-- Whicate Live St worm


[^2]
# THE FARMER'S ADVOCATE. 

Oxford Co., Ont.

## What Institutes Should Fight For

Sir, -1 would like space in your paper o o uply to
my critis in April 1st and May 1 st numbers, 1903 ,
in regard to our Farmers' Institutes payine more at-

leter is a prizetaker in batter and bread making, and
whille we do not in any wise in the line of music, drawing and painting and such-
 the branches of agriculture, I thought I would tell you ing over an old number of the Farty it ateers. In lookseed potatoes carly, in a box in the house, and when all danger of frost was past I planted in the garden
on the 15 th of May. 1 dug them on the 21 st of June. on the 15 th of May. 1 dug them on the 21 st of June,
and found them a fair quality, and 1 think I can have potatoes two or three weeks earlier by this plan.
We- are having beautiful July weather, just perhaps hoeing, but grand for filling the grain. I have really been astonished at the way the grain has improved barley is good, and oats improving splendidly. Haying all wheat and barley are going to follow in quick succession, and the

Straw-cutting Device Perfected.

## Since the demand, about a year ago, for a straw- cutter attachment io the ordinary thresher became

 cutter attachment to the ordinary thresher becameurgent, the George White \& Sons Co., of London, have
been constanty been constantly at work perfecting such a device.
Hitherto, it was found difficult to keep the cutting Hitherto, it was found difficult to keep the cutting
knives sharp, but a Mr. Stewart, of Molestworth, Ont knives sharp, but a Mr. Stewart, of Molesworth, Ont.,
came forward with a contrivance for this purpose, and his device was so successful in a recent trial that it tachments to the Geo. White \& Sons' machines. The construction of the new cutter, as attached to the Challenge, is such that all threshing and separatthe cutting knives. The cutting cylinder is contact with the straw deck, and the straw is carried by above steel rake to the feeding rollers, the chaff from the
shoe not going to the cutter, but drops into the shoe not going to the cutter, but drops into the
blower, below the shoe, the cut straw dropping upon The feed is evenly mixed, or the chaff can be
aved separately. By throwing of the cutter shatt belt, and removing the grate, the straw is delivered to the stackers the same as before. One man can take
care of the straw easily, and the same can be delivered The cutter can be attached to any machine, and its merits are being investigated by the Waterloo Co., Middlesex Co Sawyer-Massey Co., and others.

Concerning Ferrets
$\qquad$ ferrets asking to be put into communication with the enquirer. Those sending a stamped envelope have been not. In all matters of business it is well to be busi-
nesslike, and in cases of this hind, to send stamped envelopes
small ad

The Gymkhana at Whitby Fair The problem of interesting our young people in the
saddle horse, and showing them how to fit for market the many excellent hunters and jumpers bred in Canada,
is engaging the attention of the directors of the soon July 2nd, they decided to put on at their extribition this fall a gymkhana, or series of games on horsp-
back, which they think will prove attractive bot an educational and as an amusement feature. Mr.
S. B. Fulter, the well-known Woolstor

Cumberland County., Nova Scotia. still very dry and a feops are grem now, but the soil it not be more than half a crop, which means a great loss with favorable weather from now on good color, and crop. Mangolds were nearly ald plowed under and the

ground seeded to turnips. Turnips are cominy
sow fairly well, esplecially the later sown ones. Dairymen
are feeding some mill feed, and are somewhat worricd

New Westminster District, B. C

" The Sun's text is, ' Begin the da,
With shining purpose as your ray', The Rain's, ' Let tears fall only
They'll make the world more brimht
The Wind says, Let your voice be siveet
And only wholesome things repent, sind
And only wholesome things repeat
The Flowers whisper, hid apart,
The Flowers whisper, hid apart,

- Show to the world a perfect heart


## Mrs. Watson's Silver Set

 Mrs. Watson was supremely happy when she camehome from Topeka with her silver set It had been the dream of her site. of silver : a coffeepot, a teapot, a sugar bowi, cream pitcher, teaspoons, tablespoons and silver knives and worked, but some calamity alwayped and saved and prevent the fulfillment of her wish.
One year it was the grasshoppers; another year it was the drought; another year they had great floods; one year all the swine died with cholera; another year all the chickens died with some new diseass; again, the cyclone brought destruction and ruine all the growing crops; then came a year when the
cows gave plenty of milk, the swine had no cholera, the chickens flourished, the rains fell regularly, and the corn crop was the largest in the history of Kansas. But when the corn was ready to gather, the price went
down so low that very little reallied.

But Mrs. Watson did not give up. She wore her old bonnet and dress that winter, and skimped more than ever. The prying eyes of her neighbors disMrs. Rickets said that was the reason that shen patch. Mrs. Rickets said that was the reason that she dried dren's Aid Society, and she give any more to the Children's Aid Society, and she mixes rye with their coffee. " They must be own eye.
She hasn't paid any missionard up," said another. she used to be president of the society. see how shabby she looks. She often looks blue with the cold when she wears that threadbare blanket

The villagers continued to gossip about the closeness she had the huns but when October came 'round again coyeted the hundred dollars ready to purchase the The day before
The day before the visit to Topeka, Mrs. Watson was very busy. She put the house in perfect order, bed ready to put on in the morning. Mr. Watson slood and watched his wire as she went about her work of getting ready for the journey on the morrow, and " Hannah, it does seem to me that you hadn't sulfering this winter right here in this town. John Paul is no telling how soon hogs had the cholera, and there "Jacob," Hanneh ours-
flly mind on having that silver a hard voice, "I set and I've denied myself for it ever since. I've scraped the money together at last to get it, and now I'm Hoing to have it. I take notice when you want a corn-
Nanter, or a patent hay-rake, or a riding plow with a canopy top, you usually get it. I have earned the going to buy it to-morrow. I guess you needn't say "Hannah, the case is entirely different. I have to have implements to farm with, and you do not have Who cacob, some one is know at inc at the kitchen door. Will go to the door, for you are nearly undressed."
After some conversation with the Aor, Mrs. Watson closed the door with a bang and me back with a stern look on her face. Mr. Wat-

- It was Tom Grahno was it come ?"
bad, and they can't find the Lucy's got the croup a wiful country some can't find the doctor. Gone out in the
and didn't leave any word where
was going.'
" Hannah, did he want you to go home with him?" a hospital nurse. I gave Tom Graham the croup medicine and told him he would have to get somebody
else, for I was a-going to Topek Mr. Watson for once was silenced. He began to
feel worried as he thought of his wilf. She must be feel worried as he thought of his wilf. She must be
taking one of those new-fangled nervous diseases that
women have nowatay authority on children's ailments, and for years been an kindness to the sick and needy; but something was
wrong with his wite. wrong with his wite. She was a changed woman.
Yes, he felt sure that she had some nervous disease working on her.
The trip to Topeks was Watson went to every jewelry store, and some other stores where silverware was offered for sale, before she could make up her mind. Then she went back to Nicholson's and bought the first set she had looked at.
The next morning Mrs. Watson set, placed each piece carefully on the table and sat down to look at it. She must be dreaming. She pinched herself to make sure. Yes, it must be true,
there was the teapot, the sugar bowl the creat there was the teapot, the sugar bowl, the cream
pitcher and the coffeepot. She was still looking at
it with it with sparkling eyes when Mrs. Bolly came in. "Solid silver?" said Mrs. Bolly, in a doubtful tone.
Are you sure ?"
Mrs. Bolly was small and wizened looking, and had wrinkled, sour face, with envy showing from every " Yes, I'm sure," said Mrs. Watson. "Look at the mark on the bottom of every piece. Sterling it says, enough for 'em. It just took an even hundred dollars " You don't say so," said Mrs. Bolly, in a doubtwhi:e you was wonder you didn't get a water pitcher her sumbonnet and bhawl and went home. Bolly put on Mrs. Watson's happtness went out at the and some of with She was wraping the white tissue paper about the "' I have just heard that you had bought a soli silver set, and I came right over to see if it was so. Is
it? I am just all out of subdued tone. "Here it is Mrs. Watson, in rather a was just getting ready to put it divayg-room table ; and the look that accompanied it sank like steel int Mrs. Watson's brain. "How much carving and what large designs." " what I like. They asked just as much for a plating small set with tiny little sprays of ferns on it. it There was an bemt value I could for the money.
wilence.
"Oh, it's real pretty, ard it took lots of work to do those flowers. Yes, it's real pretty, if it is a little ." Out of style! Why, I hunted all over Topeka I wanted this kind of a set." us "Oh, then, if you are suited I guess the rest of the very latest styrs. Yrowley has a new set. It's everything the very latest. It's all plain, with very
Ilttle carving on it. She sald style, I believe. Oh, yes, she it was the Colonlal too. Well, 1 'll have to go. Your silver set is
just real pretty," Mrs. Denning said, in the polite tone one uses to conceal insincerity.
Mrs. Watson sat down and looked at her sllver set
very soberly. Was it old-fashioned? Wos reason this design had been so hard to find in Topek the No, of course it wasn't old-fashioned. Any woman in her senses would know that it was worth more than the plain kind. No, Mrs. Denning was just a little
jealous, that was the reason strongly that it was old-ason that she had hinted so
Just then her only daughte
her school books and placed them rather carelessly on
the table the table.
you know any better !" cried Mrs. Watson, "don't that way. You get one of them pleces server round you will see what will happen to you " scratched an Susan looked frightened, for in all her life he mother had never spoken to her in that tone. "No, but It's a wonder. You mustn't
No, but it's a wonder. You mustn't push ellver
around that way. Do you understand me "Yes, mother." There was a sound
the girl's volce as she replled.
From that day Mrs. Wat
From that day Mrs. Watson was afrald to allow " Susan, I'd just as 'llieve you'd put it in the stove Susan trembled every time she put the lid on, or carried any plece to the china closet bow Pore the end of the week she hated the sight of the
silver set. Mrs. Watson invited some company to celebrate her
upper wasiexcellent The expected guests came, and the praised whe her silver. The school teacher's wie the new silver set Finall did not say anything about kind of apologetic way, ". How do you like my new silver set ?"'
Mrs. Gre
If did not know answered and suld: "Excuse me but fashioned pattern was new. It is such a quaint, oldbelonged to your mother, One seldou it might have igns. Nearly all the new styles are very plaing deust such a Mrs. Smeltzer has been hunting for Kansas City taste, anyway. It is a beautiful set, if it is a little "Have you heard ab
Noctor says that he will go blind if he don't The New York and have an operation performed on his things. His wife is so delicate he had trying different own work, and can't do anything can hardly do her "How much will the operation cost? ?", asked Mrs. "Oh, seventy-five or a hundred dollars my old clothes last winter, and gave dollars. I wore poor, and I know you have been doing the same "I am afraid not." said Mrs, Wat
rrased way mrs, Watson, in an eme
much good you do. I've been saying people know how that you had not been wearing saying, for a long time, Chat rusty shawl for nothing. When I have hand people criticise you for being so close, I just heard that if you that 1 knew you better than they did, and usual, you had we can't raise seventy-five dollara. I was sure. No, Lon Hickson will have to lose his sight, and then the ramily will have to go to the poorhouse. I can't the othink of it.

Can't the church ralse the money? Lon is a " No, Mrs. Rogers only
lection on Thanksgiving day gave fifty cents to our colspecial plea and told just what the we had made a
used for. The was to be bought a new parlor set and she went to Topeka and couldn't sleep if I had done such a thing for Lucy. I ways said there was nothing like having a have alscience. Now, Mrs. Watson, don't you look so cast down. You always were so sympathetic." missed the silver set. ". Why, Harmah
'n't heard you say anything about it for a ou surely haven't got tired of it already, after wantling it so many years.
was just the pattern she wanted, Smeltzer have it. It than I gave for it. I gave Lon Hickson me more dollars to go to New York and have the operation performed on his eyes. He started Tuesday morning buy some new things other twenty-five dollars,", myself and Susan with the - " Well, I never !" Mr. Watson came near his wif and looked at her. "Well, 1 never! Why, Hannah you are your old self again.' It seems for a year o so bad to see you have so yourself. It made me feel so bad to see you have so little sympathy for the poo
and sick. I just think some new disease working on you." cheery smile and said : "1 guess I've had the silve cheery smile and said: "1 guess I've had the silver
craze."-[B. C. Estes (National Magazine)

## My Creed.

Where charity is seen ; that when
We cllmb to heaven, 'tis on the rounds
hold all else, named piet
A selfish scheme, a vain preten
Clicumference?
This I moreover hold and dare
Whatever things be rweet may
Whether it be the sickle's rus
Through wheat fields, or the fall of showers,
Or by some cabin door a bush
Tim or mine
Nor stubborn fast, nor stated prayers,
That makes us saints : we judge the tree
makes us saints: we judge the tree
By what it bears.

Aren a man can live apart
From works, on theologic trust

## THE FARMER'S ADVOCAIE

IHE QUIEI HOUK

What Hast Thou in the House
More than lies within your power
Let your work be always true.
Stead, patient, hour by hour
It is better far to build
Good foundations, slow and sure,

Than to rear in haste unskilled
one remarked to me is insecure
should like to be very rich, for then I could great deal of good." I suppose we all unde
stand that wish-it is so pleasal being able to give a great deal of pleasure of others without much trouble to ourselves - but that was not God's way of helping the world.
If our object in life is to serve Him faithfully the riches of the as well to remember that all easily make everybody rich if that would be could for them. If He has not given wealth to good then it is very plain that you can do more goo
without it-can do more real, lasting good to your neighbors, as well as more acceptable ser to ice to Him. When a poor woman once came to money, but heip, the Prophet did not give he the house ?" Her house was very bare an empty, for she had nothing but a pot of oil, but What have you in the house? What's help doing good?
When the disciples were told f hungry people, their resources seemedsand small-they had only five loaves and a few fishes When Moses was sent out be done. the bondage of the Egyptians, he Israel from equipped with new weapons for the new work. "What is that in thine hanld?" the Low work. probably a stick he used in a rod." That rod, herd, was all he needed. Grod would as a shepwork miracles with as well as anything else to David found the sling he carried in his hand Shamgar had nothing better to fight with that an ox goad, yet he slew with it six hundred so he looked round and was in need of a weapon so he looked round and "found a new jawbone of It is said that when Faraday, the celebrater English chemist, wrote to Sir Humphrey Davy asking for employment, he was set to work washthimg he will do it directly, if he good for anygood for nothing," was the remark mades, he is the matter. How do you know that God is not work beneath you? If you consider any honest God and his master faithfully when he was Slave, he would never have been fit to rule over was a faithful shepherd. Duren to be king because he that each servant who has been Lord has promised few things shall be macle ruler over many over a Are we faithfully making use of our oppor-
tunities of doing good now tunities of doing good now, or are we oppor-
pleasing ourselves with the thought of what we
should pleasing ourselves with the thought of what we
should do if we were only rich? It is quit possible for anyone to imagine the pleasure
being able to give a hundred doll and at the same time to refuse torsive the dol portunity of thon in the house ?'" Some opportunity of doing good to someone, sumel-
Why, even Robinson rrusoe on his desert islatid
had man Friday to minister to had man Friday to minister to. You have it you to do to-day, although you mayy not have :" Still, the opportunity for heroich action matmite.
rive any minnte. The Buffalo Fxpress, shauk
 tunity was afforded for indivitury of opportho had themselses escaped from daneism. Nenl imperiled persons. The hero seems atwass to at hand when needed. Ife comes from day an unimpressive, hald-headed clerk or t man or bookkee battling in angry

#  

## 5. 1.sing upon the low <br> 1n hidden and unnot

THE CHILDREN'S CORNER

## A Change of Work.

ing "Oh, dear !’" sighed Winnie, as she sat jeerlwish I didn't have to work so in the yard. ." I says she iikes me to be as busy and happy as See, but I ams sure those bees flying about in the sunshine wouldn't be very happly if they had to peel a lot of dirty old potatoes. 1 could enjoy work too if I only had to fly about and plav hide-and-seek in the flowers. Gathering honey isn't very hard work, is it, Mrs. Bee ?"'
The bee she addressed wac porn
The bee she addressed was poking her head into a flower, but she drew it out in a hurry and exclaimed, in a queer, burzing voice that
sounded like a bally threshing machine .a Would解 like to try it for a time, my dear?," Wotid ran of potatoes and surped that she dropped the I do wish I could !", she said to her fect. "Oh. this kind of work; and then I have hardly it mours every day." The bee flew up and held out a bit of Winnie on which was lying a drop of howar Winnie put it into her mouth, for she had ofter hing would happen as soen and felt sure someAnd something did happen Ss she had eaten it herself flying about the bushes suddenly found ther bees, and it certainly seemed very pleasant th cuza buyz? hurry up! fill your pocket to make up for lost time. The porkets, whisi

and off the yellow pollen from the flowers hive. It was a with their "gold dust", to the ached long before she reached it, but the bees in
the hive crimes wis lers, using the tiny brushes and the other travel Co take away the heavy gloads of pollen tegs carried. Winnie soon found that of pollen they great deal of work to do in a bee city. Tnstead thousands of hungty the busy maiden aunts had mother never had time to to fill. The queen children. You would think a han wat ow the laid a hundred eggs a day, but the queen boo hought nothing of a thousand a day. The hiser sculptor bees made neat little wax rooms her head in at each doorway queen would poki nursery was in proper order, and then that the insile. Winnie and several and the ber put an outh
her amel fastened her ard fastened up the doors. In a felv day
there was a hungry balby groul in cach

6o the busy nurses made bee-bread with the por Moms of the hive. A little pill or in the storce oom of the bir hurse was dropped into every overlooked among all the Not one baby was to be fed every day. They did not which had ract attention, but the nurses followed each to make sure that no one was forgotten passed, imes Winnie was set to work to help in ventila ting the hive, for bees believe in having plenty of fresh air in their houses. Some stood with themselves back to back with the others placed wards and forwards went all the wo backing fans. This was very tiring work as it liv was hot kep up day and night when the weather too long at a time, for a fresh batch to wor gan to show guard. Before long the babies be although they cernainly did not "busy" bees Wach one made a nice silk dress for itself, as it murse dided to go to a party, but as soon as fastened a wax lid on its che was doing she had to stay until it turned into a perfect bee and was able to bite its way out. Although all yrow up to be the queen, they could not all "royal jelly," aurd taken special care of on way out like the not. allowed to bite their honey through little slits in the weors fed with coms. Winnie found that even after of they weir carefully watched hye cells the princesses and puiled thom nurses, who bit them sisters in the nursery. The old cueon visit their hate these royal children, althouch th, seemed to killed daughters. Indeed, she would cladly heve vented such maiden aunts had not preThe hive grew more and more crowded, so to seek a new ho we Winnie slicen, went out them, but flew away by herself slipped out with and was surprised to see the pan of potatows tiving, dear! she buzzed, am so tived ee a little girl arain"," 1 do wish I could "' Wimnie, Winnie, haven't you finished peeling hey were put on to boil for dine Winnic jumped canne from the kitchen eves and wondering from the grass, rubbing her reallying, or whether her stran could have been
$\qquad$
here are cheerful hearts and lives
Which
Which wake to a day of praise
There are those whose hear
Have long for whose hearts for a weary whil
of life's sungshiny days,



## THE FARMER'S ADVOCATE

## Jottings firom the Isles of Scilly.

series was rather dull ro. I. of my little Scills ly expect to make my personal experiences under standable without some such an introduction by

$$
\begin{aligned}
& \text { way } \\
& \text { It was on a bright day about the middle }
\end{aligned}
$$ April that 1 left sumny Teigmmouth for Penzanie irom which place 1 was to take the small steamer

for St. Mary's, Scilly. As the train rapidly by from station to station until Devonstreaks of pale gold, dots of purple, and bits of times intermittently, trying to run races with weas we flew by. Of course I knew they must be inyriads of paie primroses, of deep blue violets, wild flowers, but not Cornwall crawl, a leisurely pace the thain usual always to fall into when it enters the last county in England, could I begin to see just what name to give those lovely flashes of color which lined steep banks which sentineled the and down the tunnel and tunnel. The thought crossed between we kept emerging from darkness into light and beauty, that so it really was with us in life, if only we would let our eyes see it and our sad hearts acknowledge it, that out of dark hours of
gloom and despair we could suraly find gloom and despair we could surely find sone of
the glorious compensations which are certain to await us when once more we come back to the blessed sunshine which is of the Father's own
bestowing. )estowing.
settled into snug quarters at the found myself hostelry I had chosen, alike close modest little and point of departure on the morrow. On the pier a pleasant experience awaited me. A cheery jolung voice greeted me, "How do you do, Mrs, B.? I am having a holiday at Marazion, and thaught I would run over and see you safely on
board the Lyonesse for Scilly. Oh ! don't I wish I were coming too?"' Now was not that nice ? and from a friend-for I shall never again call Mrs. L. a mere acquaintance-whom I had met, which I husband, upon the Cotswold hills about which I told you some months ago, the hero and which had come to grief, as automobiles will, up on one of the crankiest of the hills upon the Cotswold range, forcing them to shelter awhile in the hotel at Birdlip, from which my Gloucesheen predicted, but except for an occasional "skurry" of rain and wind there was nothing to complain of, unless by those unfortunates who would succumb to seasickness in a flat-bottomed punt upon an artificial lake. I had yet to see
what bold Boreas could do with sailing yacht amongst the Islands of merry little As we backed out from the pier we took in the full sweep of the bay from Marazion and St. Michael's Mount to Newlyn, a quaint little fishing village on the Cornish coast, and to the picturesque village called from some traditionary
story, "Mousehole." If you are wise you will call it "Muzzel," and utterly ignore the tell-tale spelling thereof. Just beyond it we passed Point Spaniard, from which a Spanish force had once descended upon Mouschole, the Cornishmen there-
of having made a stout but ineffectual defence of having made a stout but ineffectual defence
against surprise and numbers. The whole of the coast stands out somewhat grimly, indented with caves and fissures and scarred by quarries. one stately cliff stands the far-famed Logan
Stone, and near by it, in Porth Curnow Bay, the Eastern Telegraph cahles come ashore. Before for Scilly, the outlines of the Land's End were clearly seen, and the doleful tolling of the bellbuy off the Runnel Stone, heard by those who distinctly see the Iongships and the We could houses, the latter being considered exactly half way to the Islands. Here there were far hore signs of sea-traffic than we had observed nearer
the coast; fleets of fishing boats with dark sails flowing, and here and there the smoke from a perhaps, the first sight of Scilly is a little dis, atplointing, the Islands from a distance not impressing one with the sense of height and grandunr conveyed by a closer view of the bold gran(1) rocks which n

The guidebook claims that the short voyage arisports one from prosaic Britain to a subrical land, and avows that whilst the Scilly can offer a climate equal to any upon the alids to urdertake the fatiguing and expensive niney to Mentone, or other spots of similar Herature. Taking this with just a tiny hority, for I have not been to Mentone, and
am willing to beliove that there one finds per-
Travelling Notes.
a fire Now in Scilly, after each days tramp,
I like nothing hetter tham to I like nothing better than to sit with my feet
upon my fender, and, looking into the giowing coals, think over my adventures and plan how leave of them I may tell and how much I must leave out when the time comes for me to send
my little contribution to the limited lotted to the "Spindle Side" of the space alAdvocate.


## FLOWER CULTURE IN :CIII

full beauty you are, but many remain to give yo a very fair idea of what Scilly can praduce for found flower farms, flower gardens flowitain." I flower corners, flower yards, land of St. Mary's looking to me almost like a checker-board, every a vailable space being divided into squares, bordered and hedged in by growing the narcissus the jonquils, the bilios blossoms; dils, all in bewildering but beautiful varietioEveryone with a yard of land grows flowers Scilly, not only lilies, but wallflowers, stocks, marguerites, etc., whilst over the cottage walls sometimes over the thatched roofs surmountin them. I will not attempt to offer botoni names, but amongst the flowering shrubs which fenced in and protected these tiny garden squares like myriads of the laurestina, and what looked so strong and stout and thick that the strongest man could not force a passace through themNow, flower culture has become a science, and glass-houses and scientific appliances further its in its earlier stages wealthier Scillonians, but single-handed, and such a happy-ro-lucky work naturally often lead to disappointment an sending some illustrations, in the hope that our editor may be indulgent enough to spare from will agree with me that the grim rocks whicln barricade the shores, the the grin rocks which


Shipman's heald, scilliy islands,
hower miracles worked on its behat
skill and heaven's bestowings thereupun, than
a land of wonders and sur of
 the world you live in ander wowld like to soed atemmes of chestsmots. The monastery is the chief varied conditions, try to leave at least a work Shanish kinur Wi. had crypts, still lie many for Scilly when next you visit the motherland. over the immense building, in which are lovely

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THE, FARMER'S ADVOCATE.
Founded 1866
cathed. Ahe structure, much after the
of St. Pails in London. We had coffee
iolls made with goate' malso lunch. The coffien ${ }^{\text {an }}$
the builk, the rolls were sour. sour cheese. I rose more hungry from a meas like provement. ever done before. Lunch was an im-
begin with begin with an omelette, This is followed
several meat courses, sometimes one being fesh of kid, and always there is hot poultry, vith of a particular kind is free of chargow. Wine afternoon we visited, on our way to the station small, and overcrowded with beauty; the ceilings were painted, the walls were covered with pictures the chairs and tables were decorated ery; even walls of the passages and the rails of the stair-
"'The country to Madrid frorn Del Escorial is rather uninteresting. When we arrived at Madri
there was Five went to the hotel, the rest came in omn. buses to our quarters, which are quite $2 \frac{1}{2}$ miles from the station. We thought we were never going to arrive. When we did, we had the lux-
ury of a good wash. I have fortable bedroom. Everything is bice, comif it, but there is an appearance in the place a the case with rigged up temporarily, and such is are very comfortable, and if the However, we is slow and the meals are not quite regula table are good, and there is plenty to eat. I was hearing tor-day that enormous prices are being able room and board, with no great comforts, is practically been wasted as far as sight-seeing goes, for we have been hunting round for our in been a lively time. for the congress. It has which is only five minutes' walk from the bureau, first thing this morning. There we found all the Spanish getting prompt attention, but the foreigners could find nobody to give them their for a considerable time, I went off with two docof Biarritz if I could find Dr. Greatrex, my friend and was then just going out with his his hotel, ranged that I was to he could for me, and arhad to tell at two o'clock. Meanwhile what he doctor and I went off to the Faculty, a little cine, and getting no satisfaction there, returned again, to learn that we found Dr. Greatrex again, to learn that he could not find his friend, did get somebody to listen to me. A At last me theak English was told off, and he informed been received from the subscription had never However, after showing my card Secretary. given my credential of identity. We ctc., I was sent our cards of identity this afternoon, and it
was the worst The struggling and thaged crowd 1 was ever in big men came out with perspiratreadful ; great their faces. I gave up trying till the crowd began to thin, and then found myself quite in the upper circle of the medical world, for I had Sir
Winlliam Broadbent, Dr. D'Arcy power andd big guns, all of whom were good to me. Dr. and said, 'So you got here.' They say there are nearly 7,000 doctors assembled here in Madrid of much benefit to I begin to doubt if it will be have so mismanaged aver all, as the Spaniards hope ever,' is a good motto, and, anyway it on, and I am thoroughly enjoying it. ELEANOR," Surely a gathering of 7,000 doctors must
leave its impress upon this generation. It canmust not only much profit. May it repay her for her long
journey from

## A New Motto.

Senator Quay, while dining at a country hote
noticed among the signs on the wall one rending on parle Francais," The Senator was sonewhat
amused and surprised, because the necescity amused and surprised, because the necessity of being
abtle to speak French in that particular section of rural Pennsylvanla had never before appealed to him. There-


July ! Can it be possible that it is July again ening toward the that the days are once more short the fact is, it is death of summer ! Melancholy as there's no use of grumbling is be admitted, and since make wisdom the better part and it, we are obliged to the old-time preacher used to say the glad; first, as we have had such a good sort of for the most part, Par. Wasn't it dreadful last yen summer weather so seem as if something must have gone wrong with the the old-fashioned And, now that we have got back to I hope we are contriving to keep interested during every Youn have found of keeptng interested. Well, so I am, on well as being that nothing can keep me happy as Hence, having discoroughly interested all the time proclaiming it from Dan so good a thing, I feel like the housetops - Goodness 1 I'm fora, shouting it fron impressit I feel like telling it, in a yery stately Nook. hear and do,-but let of being interested in all we see
many of yop at the seeine glorious, bright summer days? and blue Lobelias will be out now along the creeks
am sure: and by wild roses and feathery Meadow the white pond-lilies, the get out $t$ see them, and all the other jewels of field
and forest. But -it's time to "get But - it's the down truth-I haven't hald is out. You see, even the Ingle Nook isn't a corner
of leisure. But never , and there are golden days still. However, I have had time to poke about in the dields near home, and there are a thousand and une
things there also. Have you noticed how many of the
comosite thistle, belated dandelions bloom now ?-daisy, flealane and many others. Very pretty the most, cone-flowers some when you look intts thern, but likely to be trouble meadow lands. Just take time some day to pull one
of them apart of them apart, an ox-eye daisy for example. You will
find that it is composed closing a dense head of tiny yellow florets. rick these one is in itself a flower. you will discover that each its base. Hence, what appeared will bear a seed at is, in reality, a head formed of hundrods lof flower lowers, each perfect as a seed-producer. This is a
haracteristic of the whole family as will be readily seen, is a tribe most admirably fitted less aggressive inhhabitants of the ifield. way against
greater number of ing the greater number of its species need watching. Pardock
is one of this kin; also, tansy and the rarweed
"Ambrosin ". Burnhrosia" of the botany books, to whose name ponts would eat it, much less the doubts if the billyAll the species, however, are not mischievous. We
wouly the very sorry to do without the asters that
brimhten brighten the marshes in autumn, or the asters that
whose denternations seem trifling Whose thprellations seem trifing compared with the
Hloasure of seeing its blaze of color running in lines
along the fune alasure of seeing its blaze of color running in the
along the f.nce-corners, or massing itself on fallow or
woodside. fll the sunshine of the fading it summere trying to grasp just as lone as it could. Summer and hold on to lio mentioned as an especritly, beaut iful member of
he family. I hate n. er seen it. I do not think itant

And in a flatly practical way it is enough. Bu wish to know something of the wonderful structure of piants, too, even of the commonest weed ; somethin
of the great divisions world: something of the great system of order ant ing of our door-yards. Moreover, with such a book, we might escape many nember very well when the first rund-leaved I re appeared in our garden. Would it had been the last
but, alas! thereto hancs a ab out that mallows Hadn't 1 studied all about it at the collegiate? And couldn't I sum it all up in at
pretty little rhyme: And it was such a pretty little plant, with dainty and the cutest little seed-cases! But I did not leaves, by the way, that that same dear little mallow wow, polluted a most aggressive little monsters that ever profusion, sending up shoots from seed in the greatest Fortion of root left in the ground most infinitesimal peace. nestling in the bortier was allowed the little if not sweet. and hereto comes the tale. It is short and start the garden to that innocent-looking hallo other people who had to do the very heard of several It reminds
Charles Dudley Warner the "pusley" of which Mr Summer in a Garden." The unequal combat between poor man became seized with ong and fierce that the writing the word. To obviate the difficulty of eve fo abridging it, and writing it first " $p-s-y$," tho finally, "p-y." Mr. Warner has my sympathy.
thank him for the suggestion, relief as I bid good-bye to $m$-w. breathe a sigh of With infinitely more regret do I bid adieu for this time to the members of the Ingle Nook.
DAME DURDEN.

## Domestic Economy

Boil a quart of milk; thicken with three table eggs with half a cupful of sugar, and add to the ven to bake for a pudding dish and set in the of sugar; add half stiff, with four tablespoonfuls with extract of lomon ap oinea rice : llavo over the pudding; set in the oven until a slight
crust is formed, but do nalls Jam Pudding
add half a pound of sifted flour beef suet fine salt; mix with cold water to make stiff dow of board; spread thickly with a well-floured bread jam; roll up in a well-floured blackery or currant sauce hours and a half. Serve with foaming
$\qquad$
Wash a teacup of tapioca through several of the quart of milk and let stand on the pour a tablespoonful of arm, add a teacup of sugar aggs ; flavor to taste : turn ind four well-beaten of an hou a hot oven to bake for three-gung dish, SOUTHERN BHE cold. crumblis into a a bowl. how of grated stale beat five egys with flow toperthor add them to tablespoonfuls of rice over the hread-rumbs; flavor with a mittle pour put into a han al of boased mould, cover securely; sure with lemon sauce, and let boil When thentring LACE CURTAINS. The n dow: Heat shake them, to remove the take our hand dissolve a little as you can luear the curg minutes, win with with as little ten or fifteen clear 11. which and in in very thin boiled starch be a if an ecru tint is dosined to
$\qquad$ fic as a handbook for the barming botany, one Worlat sern" that to to bery fasmer in rural. schools. and It know somenthe of botany, both for its utility and for
its interest of course. there and

July 15, 1903

rHE FARMER'S ADVOCATE
MARKETS.



## Buffalo Markets.


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## Agricultural College．

 2）Three Years＇Course－Associate Diploma and，Specialist Certificate Cour Years in Natore－B．S．A．Degree Nept．14， （反）Three Weeks＇Creamery Conme Dec，14t， ${ }^{(6)}$ Three Months＇$\qquad$ He Send for General or Special Circulars．
$\qquad$

## GOSSIP

## Messrs．B．

McRill esture an



Made in three sizes－Nos． 10,14 and 16. No
10 can be run by hand or power．No． 14 and
16 by power strongest and most satisfactory made．It has
four knives that cut down insuring long life
oo the cutter by distributing the strainthrougt the entiie frame also give good shearing cut
Send for descriptive circular and price list．
A． M $^{\text {c }}$ GILL \＆SON，


The CANADA BUSTIN THE END， with its 27 years of succesful work to its credit，
stants without apeer in Canada in the line of BUSI：
NE．S．or Sul placed in good positions in training．pat eleven student mont
shows what we do for our students when grajuated． College Heope s for Fall Term Sept． 1.

IEAARIMI HOR SA工世
 ORMSBY \＆CLAPP，Woodstock，Ont
SPLENDID FARM

## 



The preliminary classification and prize
list of the International

USHER IN AN ERA OF DAIRY DIVIDENDS


RICHARDSON \＆CO
．O Box 1048 ST．MARY＇S，ON

## ABOUT

HEATING

Is the title of a booklet which we are sending free to all who ask for
it．It describes in detail the con truction in detail the cor

Hecla Furnace


This furnace gives excellent satisfac COAL or WOOD．

A special wood grate is supplied with－ further informatite us for

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## "PATENT STEEL <br> HOG ANO WATER TROUGHS

 Hog-proof Rust-proof Frost-proof
 crowding or Iying in trough.

 They are something every farmer is goirg to have whel he findo oull what whey are.
write for prices and agmey
WILBER S. GORDON, TWEED, ONTARIO.

Mr cossip. writes: "My stock is all healthy and Chrity. Several of my Dorset ewes are sale in lamb again. They are not
pampered up, but are in the rtght shape
 The single-judre system was adouted The single-judge system was adopted
this year for the first time at the Royal
Show of Enncland Show of England, ahd gave good satis
faction in nearly all classes : indead action in nearly all classes ; indeed, in
only one class have we noticed any ad verse criticism, and in that case no fault
was found with the judge's decision, but oas found with the judge's decision, but
owing to the very large entry in the
class it was held to mone to impose upon one to too heavy a tasi for Shorthorn cattle, two sections wers made, one for males and one for females
with a single judge for each.
The single judge system is growing in favor in the
estimation of the direct estimation of the directorate of the lead-
ing shows in Great Britain and America.

The attention of our readers is directed to the advertisement of Truman's Ptoneer
Stud Farm, of Bushnell, Mlinois, which
Ster has for the past season been running regularly in the "Advocate," This stud
farm was establisherd in 1878 hy Mr H. Truman, who was at that time
breeding Shire horses in England, and breeding Shire horses in England, and
also engaged in the exporting of cattle also engeged in the exporting of cattle
from the Union Stock-yars, Chicago
and during the is claimed this firm has imported more strictly frst-class, sound, prizewinning
Shire stallions to the States than all Shire stallions to the States than all
their competitors put together. This
theit fact, tompettarm, is borne out by their
exhibits exhibits at the two last International
Shows at Chicago
 than all exhiot ors or Shire stallions
put torether and won the two gold medals. There they place that, requires first-class draft stal
lions mare tho lions mure than our own Provinces, and
nothing will pay the farmer better than to buy a strictly frrst-class draft stal
lion, and while doing himeelf deal of good he will be doing then community a great deal more. Any of
our readers contemplating buying a sta lion will do well to get in correspond
ence with Mr. J. ence with Mr. J. G. Truman, who will
be pleased to send one of their cata
Une logues, which contains a very select catav tot
of Shire, Percheron, Belcian. Surolk and Hackney stallions, and he will make it
quite an inducement quite an inducement to buyers from Can-
ada Mr. J. G. Truman writes, under
date of date of 10th inst,., that he has received
advice from his brother. W W E. Tumed stating that he will sail from Liverpool
next week with next week with a very select shipment of
Shire, Percheron and Belgian stallions.
purcho purchased by himself and brother, Mr.
H H. Truman , M. IR C\& V. C . expressly for show purposes. A few choice Shire
mares are included in the shipment. Their importation of Shire and Hackney
stallions that arrived now in fine condition, the Hachneys all
being reservect tor show and thold
well in the rings this fall.
From their Brandon, Manitoba stables
J. H. Triman is attendinde, and Mr


Generally Useful
N. F. Young, 1

Wsorbine sir,-1 have have thus far found the
to which it has attuinerd, and for many
casses of so
"indqalls, strains and more thay work
cure, and horsemen of whom I how ate
equaly pleased with the many resulte


## Enslage Culters

 with BLOWER ELEVATORS. THOM'S PATENT SILO FILLER.

 GRAIN GRINDERS TREAD POWERS. CANADA'S best.
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HELP WANTED
your tire in treto invest
good pay, write us.
We are in need of morer reliable salessmen.
Perhaps you have tried selling goods and ailed because you had not the piplowacking
ve ke the demp of boll
 StONE \& WELLINGTON. da's Greatest Nurseries," IORONT HOLLWELL MAMOR FARM. 7 Scotch Collie Puppies D. G. GANTON, ELMVALE, ONT. CANADIAN LANDS!

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Law Union Lid
No OSLET OMON Winnipand department,

DAVIDSON'S Latest Improved Warehouse
Bee Supplies.' Circul Farm rote fre ning Mills and box fre, DAvidson

## Binder"wine

HARVEST OF 1903.


IIHIS COMPANY has again sot its harvest of on Binder Twine for the said we lead the way, may well be overy intelligent Canadian farmer in 1 lis deal is easily defined. For ten yoars we have put up a good fight have absolutely regulated the price charged you for Binder Twine in evary locality where we have made a
shipment. If you want us to shipment. If you want us to conundivided loyalty and patronage Don't order or buy a single pound o twine from any other concern until you know this Company's is actua farmer agent in your district heve un the name of a good man or two, and we wlll immediately make appofntment. Canadian acriculturiats power, as er this organization is to continue or not. No other dement or opposition can pull down our standar'd. The country is in danger from trusts. Farmere, you are up against it JOSEPB STRATFORD, General Manager THE MODEL CONCRETE MIXER A. If so, send to O D. H O B IR it and stronger wall. Also extension steel
silo curbing, building any size silo. 13 IR ITISH, COLUMBIA. Newly developed irrigated lands in in the beautiful
crtile ertine valley of the Thompson River, on the main
ine of the $C$ P. P. R , within half a mile of the City of Kamloops, the inland capitat of British Columbia,
nd a
aell -known health resort. Marnificent soil




 No offer eggs from pure Barred Plymout
Now pens at $\$ 1$ per $15, \$$ per 45 , $\$ 4$ per 100 . CEE \& SO ESgs, $\$ 1.50$ per 12 . Free circu $\frac{\text { H. GEE \& SONS, } \quad \text { o } \quad \text { Fisherville. Ont. }}{\text { Barred Rocks Exclusively }}$
 WI WIIERRINGTON, Walkerton, Ont. - WANT GOOD reputable persons every where weakable os sight, and are alsolutely yuarah
will remiove d nndruff, cure fallin heada ches, Mrey refunded i, int satios
Sales large, and active ancents are actualls Writk yo termo town or travel. "10
ostpaid. Address without delav.
PROF. LONG

## THE FARMER'S ADVOCATE

Gossip.
stock show is now in press, and applica-
tions for it should be asdressed to $w$ E. Skinner, Union Stock-yards, Chicago If interested send for a catalogue of the
Hillurst Shortnorn sale, to take place at Hamilton, Ontario, on August 1 lual
as advertised Mr. W. H. Ladner, brecter of Short
horns cent date:", My cattle arites, undoing rer re
and the calves by the Provincial cham-
aid the pion
ing
butrong,
strong, of the right type, and will be heard
from in the near future." Provision has been made for fue prizes and two honorable mention
awards in each section of the liveston exhibits at the St. Louls World's Fair in
1904. This is ing of prizes in cash over former broadennational shows and will afford ant int to many a worthy animal that would liberal prely fail of distinction in less Another feature in the classification o will meet universal favor show that stock exhibitors is the division of age periods intoos six months instead of one
year as has been the custom. This plan is in recognition of the now general
practice of breeding and feeding for early maturity, and will prove a popular $\underset{\text { Messr }}{\text { breeder }}$ breeders of pirs \& A. B. Armstrong, Ontario, in ordering change of advt write: " Sales have been numerous in
both pigs and poultry able to supply the demand for collies. The pigs we are oftering now are ext have fashionable pedigrees.
ing some snaps in W. Wyandotte breed
ing stock, some of which have to
ported from Massachusetts."
COLQUHOUN'S CLYDESDALES.
Mr. Wm. Colquhoun, Mitchell, Ont.,
veteran importer of Clydesdale horses,
calling attention to his new importation of stallions personally selected by him-
self in Scotland this summer. Mr. Colquhoun has had a long and successful experience in importing high-class horse
and is acknowledged as one of the very
best judges in America. He will no best judges in America. He will not
handle a second-class horse, and deals on the square. See what the Scottis in another column in this paper ; also what is said of them in our Scottish
letter, and call on or write Mr. Colquthe riby Grove sale Mr. Henry Dudding's sixth annual sale
of Shorthorns and Lincoln sheep tool of Shorthorns and Lincoln sheep took
place at Riby Grove, Great Grimsby,
Fnoland England, on July 3rd. The attendance
was large. In addition to most of the
leading buyers for export at present in leacming buyers for export at present in
the country, there were present, either in
person or by their representatives $\begin{aligned} & \text { person or } \\ & \text { of the their representatives, most } \\ & \text { of thincipal } \\ & \text { British } \\ & \text { breceders }\end{aligned}$ I Shorthorns and Lincolns. Argentine and important consignment. Mr. Wm Duthie secured the top-priced female o
the sale, Hawthorn Blossim 10th, one of he best cows of the year, first at Nott ingham Show, and third at the Royal
at $\$ 725$, and her too-months-old bul calf by the Marr-bred bull, Wanderer'
Chief, at $\$ 350$ Mr. Charles Jewel, who
$\qquad$
$\qquad$
has been bred by three wenerations of th
Dudding family. Mr. F. L. Mills secured
for $\$ 355$ Riby Marifold, who made top
price in the yearlines. The average for the 62 head sold was segin. The Lin-
coln rams were kecoly soupht after, par-
ticularly the better onos, the winner of the first prize at the Royal making, to
Mr. F. Miller for the Argentine, $\$ 1,100$, the same buyer also taking another at
$\$ 900$, the remainder making from this
price down to $\$ 35$. the average of the

## Going to the Northwest


 Ou can easily own oue of the best farms in the West. All it requires is
mall amout of capital, pluck and energy. If you have the pluck and energy ou can get the capital
The TRACKSELL LAND \& INVESTMENT CO, Ltd. regina, n.-w. t.
PICKING UP BARGIAINS.

 giners' se chaplies, also the weinds of en- en- the
different articles, freight rates to different Which'are decideed bare ains. few sample price
fire test, half-barrel contanining 2 inder oil, 650 Hire test, halfe-barrel containing 2 2s imperial'gal
lons, $\$ 9.75$ jazketed can, containing 8 imperial



 balt sold in Can lad The 6 . Veteran has 36 rows of stitches, oth or makes have but makes have but the rows; the 8 .inc
count the row of

 WINDSOR SUPPLY CO., windsor, ont

## Western Fair, London,

 SEPTEMBER 11 to 19, 1903.THIRTY-FIVE YEARS OF CONTINUED SUCCESS. AN UNPRECEDENTED RECORD,
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This year will be no exception.
Liberal prizes. Competitions added.

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verything to please. The best attractions. Special trains and rates
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| LIVE STOCK, \$30,000 | TORONTO, ONT. <br> August 27 to September 12, 1903 | "A Carnival in Venice" $\$ 15,000$ |
| :---: | :---: | :---: |
| ${ }_{\text {Preminums. }}^{\text {c }}$ | \$50,000 \$40,000 |  |
|  | in premiums. in attractions |  |
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Special Features

First it exteme simplicty:

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20 to 30 Good Practical Salesmen Wanted,
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Clydesdale
Shire and Hackney Stallions, and Spanish Jacks,


Coor. All sola but 2 stallions and 4 Jacks





LA FAYETTE STOCK FARM, J. Crouch \& Son, Props. STALLIONS,
We are the largest Import
ers and Breeders of Olden
burg Germer burg German Coach hores
in America. We also import
Dratt ho
 Normans. 359 head of Canch
and Dratt stallions imported in last 15 months. Terms easy. All stock
Alex. Galbraith \& Son,

 cow America. She was a roan cow
born in Maprch, 1899, bred by Mr. W. Marr, Uppermill, Aberdeenshire, and im-
ported in October or the same year by
 sre was Captai, Inglewood, by the
Duthe-bred Captain of the Guard, and
her dam was Missie 1.56th by Golden her dam was Missie 156 th , by Golden
Ray. She had produced two living calves, a bull, now a yearling, and a
heifer a few days old at the time of the cow's death, sired by Imp. Lord Banff.

The Ohio State College of Agriculture under the direction of Prof. C. S. Plumb,
Professor of Aninal Husbandry, in laying the foundation of an up-to-hate herd of
Shorthorn cattle, has recently made Shorthorn cattle, has recently made some
notable purchases at public sales, and has secured the services as herdsman of the herdsmen staff of the sage of Sittyton, Mr. Amos Cruickshank. Among the purchases at the sale of Mr . Wood, of
Williamsport, Ohio, was the bull, Imp. Bapton Lovat, a rich roan of unusua
quality, bred by Robt. Taylor, of Pit Iivie, Scotland, sired by Bapton Ensign selected by Mr. Taylor from J. D. Wil choice of the lot, and later bought and The dam of Bapton Lovat is Carolin and she was sired by Ringleader, of the
Broadhooks family long price to go to Soubh America Mr. Gerlaugh's sale, the imported heifer
Queen Quallty, two-year-old, sired by Brilliant Star a son of Star of Morning, Mr. Duthie's faQueen Victoria, a daughter of Village Archer, by Scottish Archer. Queen Qual
ity was bred by Philo. Nottingham, England, and her breeding as an individual scotch character, while has high merit
One of the favorites One of the favorites of Mr. Cierlaugh's
sale, Beckie's Favorite, was hoult the University. Her sire is Royal Favo Wanderer, a son of William of Oired by
On the dam's side

HOOSEMEN! THE OKLY GewuIIE is COMBAULTS CAUSTIC EALSAM.

 The safesi Best BLISTER ever rised Tas






Address S. S. Dickinson, Port Hope, Ont DR. PAGE'S
ENGLISH SPAVIN CURE
 Canadian-bred blood ones. The, also severeare choice
true to type. and posese animals are all tyle and action. possess substance, quality THE KINDERGARTEN STUD FARM, GUELPH Breeder of Thoroukhbred horses from noted GEO. STEWART, Howick, Quebec,


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## Clydesdale Hackney Horses

Is offering for sale a number
of choicely-bred Clydesdales and Hackney stalliions, also The Clydesdales are sirided by
the noted horses, Prince of Albion, King of the Roce of
Lord Stewart and The Prior,
 SMPORTED SHIRE and CLYDESDALE HORSES
Newnham Duke, the gold and silver medal four-year-old Shire stallion, and the imported
Clydesdale stallion, Royal Kerr, in service ; also Clyde and Shire stud colth

 to, on G. T. R. and C. P. R. Post office, telephone and telegraph. Farm 15 miles from Toron-

JOHN BRIGHT, MYRTLE, ONTARIO Clydesdales and Shorthorms,


Is now offering for sale 8 stallions, sired by such horses as Prince Patrick (imp.), Erskine's ence (imp.). Also a number of mares and Lillies ence (imp.). Also a number of mares and fillies. Miss Ramsden, Clementina, Strawberry families as son Flower, Village Girl, Stamford, Rachel,
etc. Myrtle Station, G. T. R. and C. P. R. ${ }^{-\mathrm{om}}$
Farm connected by long-distance telephone


IMPORTED CLYDESDALES

# iminimitan and WM. COLQIHC 

Home Farm, despatched from Dalmeny Marina, yearling Shorthorn bulls to the order of Mr. W. D. Flatt, Hamilton, Ontario. This was a very select lot of high individual merit and the best of breeting, got by such sires as Prince of Archers, Dalmeny.
dollar wheat.
Henry B. Geer, writing on behalf of the new American Society of Equity, says " Dollar wheat is a simple proposition. the producers is to set the price and stick to 1t. This is their right and privilege, and, in the name of equity, it may be done, and done now, for it is accepted time for action. Shall we not say the word 'dollar' -aye, stamp our wheat one dollar a bushel, and take no the farm except under contract at this price, and the matter will be settled-
setfed in justice producer, the man who follows the plow may have just reward for his labor

## Pigs at the royal

Following are prizewinning records i,
three classes named at the Royal sin London, England, last month: Berkshires. - Boars born 1901-02-1
R. W. Hudson's Manor Herale Morant ${ }^{6}$ 3, Sir H. de Traford three boars born 1903-Lawrence, F er, Harwood, Henderson. Breeding sows
born 1899, 1900, 1901, 1902-Princ Christian, Duchess Devonshire, Berners,
De Trafford, Hiscock Fe Trafford, Hiscock, Horwood, Hudson
Fricker. Three sows born 1903-Prine Christian, Henderson, Fricker, Kember Duchess Devonshire.
Yorkshires.-Boar born 1901-02-1 and Yorkshires.-Boar born 1901-02-1 an
2, Sir G. Grenall, Knowles, Earl Elles mere. Pen three boars born 1903-Day
bell, Ellesmere, Mills, Greenall Ing sow-G reenall, Ellesmere, Daybell, Knowles, Mills. Three sows born 1903Ellesmere, Daybell, Greenall. Tamworths.-Boars born
botson, Phillip, Stephens.
1901-02-Ib-
Pen thre boars born 1903 -Phillip, Stephens Mitchell. Breeding sow-Stephens, Phil
lip, Ibbotson 1903-Mitchell, Ibbotson, Phillip.

MORE CLYDES FOR CANADA By the Allan Liner, Sicilian, on Jun
20th, Mr. Robt. Ness, Howick Que sailed with four Clydesdales, four French Coaching horses, one Hackney and one
l'ercheron stallion. Two of the Clydes dales were stallion. Two of the Clydes-
from the Messrs. Montgomery, one from Mr. Taylor, Park
Mains, Renfrew, and one from Mr Fil patrick, Craigle Mains. The four are bought from Messrs. Montgomery are
Black Guide (11626), a thick chunk of Black Guide (11626), a thick chunk of
a son of Baron's Pride (9122), from a
mare by Sir Harry (9411), mare by Sir Harry (9411), while the
other is Garrarie (11718), by the breeding horse, Uu-to-time (10475), out
of a mare by the Prince of Waled byrue of a mare by the Prince of Wales horse,
Prince Romeo (8144), grandam by the celebrated prize horse, Cairnbrogle Stamp)
(4274). From Mr. Tavlor (42nide, thick horse in Prince Fauntlery
(11850), (11850), got by Mr. Webster's highly
successful breeding and Fauntleroy (10370), from a mare by the
great breeding horse, Prince Lawrence. good enough to win prizes, and is quite good enough to win prizes in good com-
pany at home. From Mr. Kilpatrick
came the sweet, true Clydesdale hore Senator's Helr ( 11525 ), kot by the well-
known prize horse. Senator, from a mare
by The Summit by The Summil $(9442)$. These horses
are of the type which Mr Ness
has always been th the hatt and they and the other habit of buying.
afmes on thits trip are sure to be by


SALE! INGLESIDE HEREFORDS,


CEDARDALE SHORTHORNS of them of Lord Gloater romom 1 to 2 years old, two of them of Lord Gloster 26995 and Flora dams, the
other by Cedarville Chief 26883, Beauty dam ; a big,
onow Dr. T.S.Sproule. Ont., Markdale, P.O. and Sta. MANITOULIN SHORTHORNS Breeder of SCOTCH and SCOTCH-TOPPED SHORT-
HORN CATIIE. A tew choice animals.

SHORTHORN CATTLE $\begin{gathered}\text { and Oxford Down sheep. } \\ \text { Imp } \\ \text { Prince } \\ H\end{gathered}$ head of herd. Present offering: Young bulls and
heifers from imported and home-bred cows; also a
 Shorthorns, Clydesdales and Leicesters FOR SALE : Young animals of both sexes
glways on hand for sale; bred in the purple, and as good as the best. 20 Leicesters, both sexes, all
WM. McINTOSH, $\underset{\substack{\text { Burgoyne Porc.o. } \\ \text { Poigin } \\ \text { Sta }}}{\text { W. }}$
H. SMITH, EXETER, ONT SCOTCH Shorthorns
 Eate: 2 SHORTHORN BULLS
 J. F. BELL, Amber, Ont,

LORNE STOCK FARM SHORTHORNS, OXFORDS and STANDARD-BREDS We now offer possibly the best 2 -year
Wintarino colt in preeding and quality in
Ontario. Young stock for sale Adresty Ontario. Young stock for sale. Adares:
A. McKILLOP
om suNs,
West Lorne, Ont
Queenston Heights Shorthorns Two bulls, 16 months, got by Lord Gloster
$==2 f 999 .=;$ dams by Crimson Chief $=18991=$. HUDSON USHER QUEENSTON, ONT
R. \& S. NICHOLSON

## SHORTHORNS

 13 IMPORTED HEIFERS, Safe in calf. to Imp. Spicy Count Home-bred herd composed of Nonpareils, Minas,Clementinas, Cruickshe 0 om on For Sale: 4 bulls, sired by Imp. British States ,er of calves, bolls and heifers, sired by Imp. Diamond


Maple Grange Shorthorns


THE FARMER'S ADVOCATE

## The Watch of the Period <br> With ordinary care and usage-anywhere at any time- <br> The Elgin Watch will never fail in its faithful performat of perfect timekeeping. Guaranteed against original defect. ELGIN NATIONAL WATCH CO., EIgIn, lllinole.

## GOSSIP.

The Canadian-bred gelding, Charile B
Bire Octoroon, won the trotting race at
the Royal Agricultural Society's Show
the Royal Agricultural Society's Show
in London, England, June 29th. Time,
2 minutes 12 seconds 2 minutes 12 seconds

## maple hill holsteins. A member of the "Advocate" stafl Maple Hill Stock Farm, the home of Mr

 secretary of the Canadian Holsteln Asso ciation, where bountiful crops of alfalfa,clover and corn are grown and where maintained a high-class herd of abou forty of his favorites, at the head of
which stands the noted sfre, Count Mink Mercedes, winner four times of the cham 'Toronto, Canada's bull of any age at He is a model of the approved moder type of Holstein, low-set, level, long handling qualities of skin bat hair, characteristics which are re his progeny, which nave taken promin places in the prize list at leading Canaby his sturdy son, Count of Mat first at Toronto last year as a yearling discount even his illustrious sire an make it interesting to all comers, as h the best of breed dype with the virtues of and correct dalry conformatility, vigo inent among the milking matrons Teake, winner of sweepstakes at Flosette nipeg exhibition last year, a cow of fault and level, with and function, long, low carrying a large and well-balanced udde well-placed teats, and having a rec She is the daughter of Ykema Mink MerQueen 126 , 41 and of Daisy Teake whose yield of 84 lbs . milk and 3 lbs stands as one of the fair-ground tes dairy performances on record. Flosetta by kiving birth this sprished hersel? r calves, which give good promis amily and of the herd, which of many deep-milking and high-testing
some of them giviny six months after calving, conform Well to the approved type in form that beauty and high-class usefulHolstein cow, together combined and assimilating quallties. The things show much uniformity of ich the herd is fast being moulded Which takes with the people, sell
 price, $\$ 3$. S
note orexpe
Ask your the Day's Stock Food Co.


For high-class imp. and Canadian-bred bulls
cows and heifers. writed Cand
om
H. J. DAVIS, Woodstock, Ont.
Helliss Shorthorns
CLYDESDALE HORSES
 jas. meakthue.
Greengrove Shorthorns $\begin{gathered}\text { Number } \\ \text { of } \\ \text { choice } \text { Scoach }\end{gathered}$ lerer's Last. Imp. Fitz S'ephen and Fre booter

## SUPRRIOR

MATELRIAL, IDESIGN, WOIRIKMANSHIIP

## IVAGONA

> 허⿵ MILNER
> PETROLIA WAGON C? 느TED PETROLIA championship fell to Messrs. Montgomery's Premier Pride, the first-prize two year-old, a son of Baron's Pride. The
champion female was Royal Ruby first-prìze three-year-old, owned by the Smith, Chester. The champion Hackney
stallion chestnut, St. John, shown by T. \& Black, Malton. The female champion
was Queen of the South, a six-year-o was Queen of the South, a six-year-old
chestnut shown by Harry Livesey, Rotherfield, Sussex.
In the Shorthorn cattle class, the three-year-old, shown by Mr. John Handley, Greenhead, Milnthorpe, the first-prize winner in the section for bulls calved in 1899 or 1900 . He was born July
18th, 1900 . Second to him in his class was Baron Abbotsford, bred and exhibited
by Mr. Wm. Bell, Alnwlck Ior champlonship was Bapton Sceptre he first-prize yearling, 2 roan, bred and
shown by Mr. Deane Willis, and Shown by Mr. Deane Willis, and sired by
Bapton Duke. The first-prize cow was pion female was the King's red two-year old heifer, Sylph, sired by Royal Duke, the champion bull of last year. The
champion Aberdeen-Angus bull was Maramere, shown by T. H. Bambridge. He
was the first-prize three-year-old. champion female was Mr. R. W. Hudson's
Effulgent of Danesfield. frot-pizo In Galloways, the first-prize bull, two
years or over, was H. C Jasper, and the first-prize cow, J. Cun ningham's Ledy Harden 2nd. The cham-
pion Hereford bull was the King's year-old, Fire King, and the champlon iemale, Mr. T. R. Thompson's two-yearJerseys were the largest class in the Shorthorns being next with 131 entries In the butter test, open to all breeds, Dr. Watney's six-year-old Jersey cow, Red Maple, won the first prize and gold yard, three months after calving, 105 ter, a ratio of 1 lb. butter to 18.90 lbs.
ter 18 ozs. ter, a ratio of 1 lb . butter to 18.90 lbs.
milk.

GOSSIP.
The first exhibition of the Royal Agricultural Society of England in Park Royal, its new and permanent show ground, in the suburbs of Old London,
was quite as successful as could fairly be expected of the initial event under the new conditions, and the show will doubtless grow in favor. champion, class for, Shire stallions, the Hendre Royal Albert, the first-prize thre year-old colt, bred and exhibited by Lord Llangattock. There was no class for old was Mr. Walter Hammond's Gallant. The champion Shire mare was Sir J. Blundell Maple's Queen of Shires, first-prize mare with foal at foot. In
bs.
and
 SHORTHORNS AND BERKSHIRES ers-best breeding and quality. A few Berkshires,
months old montho old, both sexes. Prices reasonabi
Caledo. MA MRTINDALE \& SON.
dial shorthorns
 Sill


Shorthorns, Leicesters for fale- lyear and Berkshires.
 CHAS. RANKIN, WYEBRIDGE, ONT

SHORTHORN CATTLE and


BETTER THAN STONE OR BRICK!

## Thorold Cement <br> neegeve axoturer testimovial.


barn of f. h. eichenberger, nelaware, ont

Read what Mr. Eichenberger says
 ammin mind



HE farmer who reaches success is the one who not only works hard, but who utilizes all of the means within his reach. The Mc. Cormick corn binder is within the reach of every man. It will save your corn crop-ears, fodder, stalks and all -and will help double the

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 DR. B. J. KENDALL Co.. Enosburg Falls, Vt.
W. R. Bowman, Mt. Forest,

Yearlilg duhana bull


MERCER'S SHORTHORIS

 Thos. Mercer, Markdale P. O. and Station. Shorthorns, Cotswolds, Berkshires
 $\operatorname{SNM}^{\text {MA }}$ S. DYMENT bARRIE, ONT Breeder of Scotch Shorthoras TRout

 $\frac{\text { Millgrove, Ont, om Hamiton, ont. }}{\text { OAK LANE STOCK FARNV. }}$
Shorthorns, Cotswolds, Yorkshires and Barred Rock Fowls, veveramianam GOODFELLOW BROS, , mačile

##  <br> Stands for everything that is of any real value a Cream Separator, for back of the extending over a period of nearly quarter century and a guarantee that the DE LAVAL is the BEST in every particular, or no sale. <br> For proof of this <br> write us or our agents. <br> The de laval separator co. <br> 77 York St., Toronto. <br> 

Regular \$15 Field Glasses for \$3,95


FULL ACHROMATIC LENSES
50-MILE RANGE, During the month of May we advertised a sam-
ple orot of 3 doz. Toirs of Special Field Glasses,
which were to arrive fro which were to arrive from France, June 10th,
Long before the glasses reached here every pair
had had been spoken for, and our customers were sai
well eatisford with them that we immediatel
cabled to France for another shipment of it
 Hunters' Favorite" Pocket Field Glassss of re
markable power, and the reason weare bble to sell
them so cheap is because we buy direct from the
manufacherser
 fine joubers, wholesalers' and retailers' profits. The
fubes being houtise heatra fine crossbily no and draw-
tube bickel-plated, and the trimtubes being heavily nickel-p.ated, and the trim
mingsin both gilt and ninkel. The tubes are cover
ed with the best ed with the best grade of green alligator leather,
and are fitted with 6 genulne achromatic lenses
of high mannity of high magnifying power and great cleerness
Each pair of Iasise iis enclosed in a beautiful
satin-lined, alligator leather ced in satin-1ned alligator leather case and in the lid
protected by a satio pad, is a highly-polished
inirror which can be used for helograp
our illustration the
 what a bargiin they are, that we are willing to sendin ang these glasses would realize at once
ny address in Canada. You pay not one cent till on on see them forss for free inspection to vould like to examiad a pair pay not one cent till yon see them. Siinply write us that youl
Vhen ther arrive call at once ship them to your nearest Express Offce Hhen they arrive, call and test them thorounhly, and then if satisfled that they are afll we


 fll pleased with them. They are far better than I could buy here for three times the price,"



## Going to Build?

A new house, barn, silo, concrete floor, or any other such work? If so, use

## Quecinston Cememt



THE old brand made by a new made. All who contemplate using cement should first inspect the different kinds of built of the difthey would know which is best and cheapest. We especially request patrons about the new - process enston Cement used during the latter part of last season. Do not who sell the goods most profitable estimates and full particulars We can save money for yo when building.

INEAC USHERR, gUEENATON,

ON'TARIO.
GOSSIP.
(Continued from payc isis.)
flesh. Several excellentt hull calves at
also incluled in the herd, sons of the
splendid sires above enumerated, whil
the list of females abounds in goo
things, comprising a number of heifer
fit to show in first-class company any where, reference to some of which may年
made in later issues.
two original intention was to make of about 75 head, but it has been deeme wiser to weed out all not up to a hig
standard of breeding and condition, to be
disposed of locally and to include in the Hamiltor salo August 11th, all the best, making a un
form and attractive oifering, which the certainly will be, for it is no exaggera any single herd has been made at a public
sale in Canada in recent years, there be sale in Canada in recent years, there be
ing in it material for more than one young show herd, besides the wealth
list of breeding matrons, and the bes lot of bulls' seen in an auction sale in Canada in many year
Senator Cochrane wlo failing health and is desirous of closing up his business persion of the herd at the present time absolute, and it is with regret that the
result of so much careful selection and discriminating breeding is to be sub-
mitted for disposal under the salesman's hammer. It will, however, afford an un ing at the purchaser's own price first. class foundation stock of up-to-date type
for the establishment the upbuilding and improvement of ex of a bountiful harvest and the growing feeling of confidence on the part of the great country should serve as an this spiration to improve the character and qualty of our cattle, and so to be pre
pared for the great and growing deman that must surely come for breeding stock
to supply the newly-opening country at home and the increasing requirements the markets abroad. The catalogue
the Hillhurst sale is in urrparation Intimated in the advertisement, which
ind all appears in this issue

NOTES OF LIVE STOCK AT THF
WORLD'S FATR, ST. LOUIS.
Warner M. Van Norden, a promine
stock-raiser and financier, of Ryy, N. Y
burn that he will probably make ar entry from his herd of Highland cattle at he World's Fair next year. Mr. Van twice has won first prize at the Highland and Agricultural Society Show in Scotland.
class at the Wexhitors in each breed senior champion prize and a junior champion prize for males and females, and a the four classes. Competition for the
senior champlonships will be limited to mature animals, and young males and fe champion prizes. Prospective exhflbitors express themselves as highly pleased with
the plan of Chief Coburn of providinur for a more equitable method of awarding
championship prizes and thus thampionship prizes and thus increasin W. M. Springer, President, and C. E. Horse Soclety of America, have salle mong breeders of increase the interes horses in making, a representative ex hlbit at the World's Fair. Mr. Springer Who bears a special commission for the
purpose from the Louisiana Purchase Ex position Company, will spend considerable breeders and exporters of horses German many advantages of large exlibits at St ouis next year.
The World's Fai 904 will be the first ine stork shows of fons will be uniformly divided by age year, for beef cattle, swine and sheep,
thus glving proper recognition to the general method of feeding for early

The Books Are Free Spayin
 Rinisibone Mreespram Fistula Poll Evil Lamplaw

Hemm beo

FOUR BULLS (red) Ury and Stamford dams, bited

JAS. GIBB, SUNNYSIDE STOCK FARM, $\underset{\substack{\text { Brkbore } \\ \text { or }}}{\text { SHORTHORN CATTLE, }} \begin{gathered}\text { stock } \\ \text { for Rale. }\end{gathered}$ SHORTHORNE.
 SHORTHORNS. $\begin{aligned} & \text { Imp Christopher }=28859 \text { head } \\ & \text { herdi. } \\ & A\end{aligned}$

 HAXTHHORN HERD FOR SALE: Four Foung bull, from 8 to 24
monthe old, trom Al dairy oowe.
Oood doneal

Lakeriew Shorthorns, amot
 $=2=2$
W. G. PETTIT \& SONS

Scotch Shorthorns
SHROPSHIRE SHEEP,

##  12 monthe ol $\mathbf{6}$ bulis, 10 mos. to 2 yrs, by Imp, sire. Ilmp. and home-bred cows and helfers of Our en head. <br> Shorthorns, Berkshires and Leicesters in calt; also yeariling heitere, Cold heiliters, well gon Sd Bows fit for breding, and young pigg. cave. Boa

## ARTHUR JOHNSTON,

## GREENWOOD, ONTARIO,

Offers for sale at times' prices, if young
SHORTHORN BULLS, from imp, dam and by imp. sires. vearling and 8 two-tear-olit
hicirs $\underset{\text { Pickering Station, G. T. R. }}{\substack{\text { Claremont Satation, } \mathrm{C} \\ \text { P. }}}$

 dark red; also yearliny and twary.10 months old Imp. Royal Prince headd the herd.
JOHN MCHARKANE. GREEN GROVE SHORTHORNS
 ers, Mysies, Lanyuishes, Dutterfits, and Jessamines
and is headed by the noted Watt. bred bull , Spicy
Robin $=28259$, winner
 Wo-year-old heifers off spoice lot ot yearling and
few young cows in calt, mod Ror sale zalso

"A FREE SAMPLE PACKET" of Delicious "SALADA" Ceylon Tea (Black, Mixed or Natural Green) will be sent to any person filling in this coupon and sending it to us with a two-cent stamp for postage. (Writo plainly And montion Black,

Name
Address.

Address " SALADA" TEA CO., TORONTO.

## The FROST \& WOOD

## No. 3 Binder

IS SPECIALLY ADAPTED FOR HARVESTING


Farmers say the No. 3 BINDELR Draws Easily Light Team to Harvest with the No that they can use a

IT IS NOT A HOIRSE-KILLER
This fact should appeal to every humane larmer.
Ask your neighbor about the Light Draft F. \& W. No. 3 Binder

## 


Toronto, Ont.: Winnipeg, Man,; Montreal, Que
Quebec, Que.; Loult, Ont;

## PINE GROVE SHOTTHORNS AND SHROPSHRES,

Our herd comprises over 150 females, including our last importation of 30 head, all of the
most estemed strains of of Shrophice
ofirst-plass ramm. Adress W. C. EDWARDS \& CO Rockiand, - - - Ontario SHORTHORNS

Hencr




1. $C$

Son.
p, other -x.al aty and

GOSSIP.
The Dominion AT ST, Louis. planning for a grand representation a the World's Fair, St. Louis, 1904. Canada's exhiblt will be the largest most comprehensive that she has ever altempted to show. The Canadian authorilies, represented Agricultural Department at Ottaw Ort., and Mr. Win. Hutchison, ExposiChon Commissioner, are putting forth un the products of the Deminion a display justice to this country's magnificent re sources. Canada is vitally interested in
the St. Louis Exposition. already proved that at the Paris and Buffalo expositions she was to the from in securing first positions for natural urthermore, at the Osaka Fair held winter in Japan, ten foreign countries of honor for the best display. The Mr. Fisher, Minister of Agriculture for the Dominion, has just caused an item of $\$ 150,000$ to be voted for the St.
Louis World's Fayt. The Canadia building will cost upwards of $\$ 25,000$ the Canadian exhibit will beatures of
storage plant storage plant for the preservation of
natural
products. years a great number of Americans have
crossed the border, and have settled the Canadian Northwest; It is obvious, therefore, that a practical illustration of
Canada's natural wealth such as she inCanada's natural wealth such as she in-
tends to show at St. Louis next year, cannot but stimulate to a high degree a continuance of the emigration. Canada needs settlers of an industrious and
earnest character, and she must display all honest and available means to that
end. Stallion Salesman in state Mr. Lew W. Cochran Indiana, breeder and dealer in Percherille Shire and Hackney stallions, whose ad vertisement appears in this faper,
writes, exposing the alleged fraudulent conduct of one John A Araudulent tended stallion salesman, who hias been travelling over several States fur the
past few years, getting the confidence of importers and seeking employment for company plan, representing himself to be an expert in this line temporarily out o
employment, and claiming he had tion where a stallion could be sold in a
very few days to a company five men for a certain price. Downer's
story seemed to able that he was fitted out with a goo
three-year-old black Percheron stal three-year-old black Percheron stallion
welghing a ton, and set out for business with all necessary papers and money to
pay all expenses. Favorable met came back each week that his prospects
were fine thate were fine, that the deal would be closed
in a very few days, but requesting $\$ 50$ or $\$ 100$ more sent to close the deal
This story continued hopes and ordered the horse shipped
home, when another $\$ 100$ hes to pay up balance of expenses. asked fo amount was sent. Then another call
followed, that the horse was to wlre $\$ 16.00$ more to was sick, and
to veing This being done, and no horse shipped,
Cochran left at once for Ohio. where the alleged deal was on, and, to his sur-
prise, found that as soon as Downur had recelved the $\$ 16.00$ he had left for parts
unknow, and the horse, which had not
been slck, had been attached for exi run by Downer. Cochrane, of learning
that he was not the only horseman who had been so victimized, at once swore
out a warrant and a reward ofiered for
Downer's arroct delny, owing to the rapid movements of
the culprit, whs finally erfected in ordville, ind., where he taken to Craw-
$\qquad$


MAPLE LODGE STOGK FARM Shorthorns.-First.prize Sootch breeding.-Firist.prize milking straing beng bulls and heifers tor



## J. \& W. B. WATT

Shorthorns,
Clydesdales
and Berkshires

## Catlle. The imported bulls, Scottish Beau, Vioeroy and

 Imported and home-bred cows and heilera for Our herd af Toranto won three. frota, third out of five herdo olasees. Salom P. O. and Tologaph ofloo. Elora sta. O.P.E., O.T. PENNABANK STOCK FARM TThree chaice Shorthorn bulla from 12 to 14 monthold, solid reds. Prich reasonable. Allos a few Shrop
shires eft of choice smires left, of choice quality and breeding.
Hinkh Pugh. Whitevale. Ont
om SHORTHORNS and CLYDESDALES. We have for sale five bull calves, from 88
to 2 \& months, trom imp. sire and dams ;
also six extra

JOHN MILLER \& SONS, SHORTHORNS (IMP.)
 SHORTHORNS.
-
 lines, and are of the ap-to-dte kind kile Present
ofrering : some ohoice young bulls.
om Sincomotion Spring Grove Stodk Farm Shorthorn Cattle and Lincoln Sheep.

T. E. ROBSON, ILDERTON, ONT BONNIE BURN STOCK FARM


MAPLE SHADE FARM CRUICKSHANK SHORTHORNS SHROPSHIRE FLOCK founded 1871. inspent on. Call or write of choice tuality, ready for
om
JOHN DRYDEN \& SON

## THE FARMER'S ADVOCATE.



Portland Cement Concrete Silo


ISHILT FOR P. CRERAR, MOLESWORTH, hURON CO., ONT. -RATHBUN'S STAR" BRAND!

THE RATHBUN COMPANY
310 and 312 FRONT STREET WEST, TORONTO, ontario ?

Joseph Rodogers of solls
SHEFFIELD, ENGLAND.
Please see that this EXACT MARK is on each ${ }_{\text {blade }}$
IAMES HUTTON \& CO., MONTREAL, sOLE AOENTS
$\left\lvert\, \begin{gathered}\text { TRADE TOPICS. } \\ \text { Windmils at the royal.-C }\end{gathered}\right.$ dian implement manufacturers were weal
represented at the Royal Show in Lon don, England, this month. They report trade brisk, more especially with the
Continent and South Atrice Continent and South Atrica. The first
prize and the Soclety's medil prize and the Society's medal for a wind-
pumpling engine was awarded to the Imperial, manufactured by Goold, Shapley $\&$ Muir, Brantford, Ontario, against 22
competitors from competitors from all countries.
"MUSIC HATH Charms."-Wm. just issued a pocket catalogue, which, in completeness and artistic appearance corresponds well with the beautiful
organs which organs which it describes. The engrav
ings and descriptions ings arious styles of instruments are iust
var such as prospective purchasers will appreciate. We presume an inquiry by
post post card will bring a copy from the
company at Clinton, or from any local
neont of the fin Fine minn
this isswe MacGregor Bros., of Hiwh the advt. of have this seassn built and equipled with the latest and best appliances, a fine
two-story building for more extensive manufncture of harness. Their specialty
is fine hand-made driving harness. the is fine hand-made driving harness, the
several lines of which are illustrated and several ines of which are inustrated and
fully described in their catalogue, which is now ready for mailing. Macclregor
Bros. buy their leather and trimmings in large quantities, and, besides, have every facility possible for making tirst-class
hand-made harness To this cost of material and making they add but one oront. They clan, therefore,
assure assure a first-class article at a much
lower urice than if harness were made singly and to order. J. W. Macclregor,
the hend of the firm. trade in harness in in Highgate for the
past tour past four years, and during the past two
years has shipped a considerable number of harness to diferent parts of Ontaric,
and the Northwest. and the Northwest. These haruess have
given the best of satisfaction, and continual inquiries for quotations on har ness from places where these haraness are
known has forced them to make preparaknown has forced them to make prepara-
tion for doing a larger and more comPlete mail-order business.
sonally acquainted with Mr.
Being
J. Gregor, we know that goods made by
this firm are strictly first-class nnd compare favorably with harness sold at
several dollars higher than their prices. several dollars higher than their prices.
Fvery one interested in driving hanruess
will do well to droll n postal nsking tor their catalogue.
NORTHWEST
FARM LANDS. - The NORTHWEST FARM LANDS. - The
Tracksell Land and Investment Company, Limited, of Regina, N.W. T., box 482
advertise in this lands in Assiniboo, Saskatchewan, Al-
berta and Manitoba, to which the
 is directed either as homesteads or in-
vestments. Americans are showing Vestments. Americans are showing a
much nreater interest in Western Canala than Canadians are. There are, of
course, many settlers coming from the United States who some years ago went
from Eastern Canada, and have Imarkably well in the Western States on
imairie farms, nnd are
pran good prices and buying farms in Assini-
boia and Saskatchewan at low figures. There farms will in a short time be
valuabbe and make their owners inde-
pendent, and even ene kinmewn that the Regina district has a
very favoratle record in the matter of crops, and there is every prospect of a
repetition of the yielder of the past two
years, the abundant rains nad the fine years, the abuncrant rains and the tine
warm weather bringing the crops well
along, and are now in fine condition. In along, and are now in ine condition. In
adiditon to a large list of impored and
unimproved land in the vicinity or of unimproved land in the vicinity on
Regina, the company are orfering for sale
about thirty thousand nores in tho sale ity of Battleford, and lying very orn-
venient to the Canadian Northern Railway now being built through the North
Saskatchewan Vallev to Battleford and on west. These lands are all personally
sellected class for wheat or for mixed farming and
for dairying. They will tee very glad to show any of the lands they have, to
those who wish to investigete




 James Caskey, TIverton P.O., Kineardine Sta. Shorthorn Gattle, Lincoln Sheen


J. T. GIBSON. Om DENFIELD, ONT

SHORTHORNS


om Thedford H . $\mathrm{K}_{0}$. FAIRBAIRN.
H. PARKER, RIVER FARM,
 GRANDVIEW SHORTHORNE




Shorthorns and Berkshires.
 MAC CAMIPBELTE
BELLEVUE SHORTHORNS
 $\xrightarrow{\circ}$ CHOICE SHORTHIORNS

Imp. Shorthorns and Lincolns A. D. MOGUGAN.
RODNEY, ONT., P. O. ANDSTA Imported Aberden Hero at the head ot the herd
whinh is composed of the lest
scotothen tan

R. Mitchell \& Sons, Neison, Ont. Present ofering three extra good hulls from 12 to
and dams, two imp. in dams, and one trom imp. itre Also a number of Scoteh heifers in call.

## GOSSIP.

 Wo thepp wilhing and high hetest ing Jerseycous due to cale in August, also, a twy
 are advertised for sale by T. C. Pettit,
Burgess rille, Ont. A 225 -acre farm in the fine county of
Oxford, Ontario, is advertised for sale in
thic issun this issue by Messss. Ormsby © © Clapp,
of Woodstock. The farm is only miles from the beatifulu city of only ${ }^{2}$
mood
stock, and has. three

Mr. D. Leitch, Cornwall, Unt., breeder
of Ayrshire catle of Ayrshire catle, in ordering a change
of advertisement, writes:
1 out of bulls old enough for service, and offering, and which 1 um willing to dishese shortness of feed supuly vor owing to g winter, on account of the long spring
routh. Some of the doms as high as 50 lbs. on grass alone before growthy fellows for their bulls are large, in color, and would do for age, arell small herd
of cows this summer had a very successful season so far, hav good many more and could have sold
mhough the ... Advo ate," if they had been old enough.

Mr. T. H. Hassard, Millbrook, O. O. .
reports the sale of his last ink of five Clydestale stallions as follows:
"Lampton Knight Mr. J. D. Elliott, Boiton, Ont. The Prince
by Prince or Kyle, to Mr. Jos. Wilcor Stayner, Ont, Sir Gilbert, by Admiral Hill, Ont. Sir Cordon, by Royal Favor ite, to
Ernest R. Shaw, Millbrook. Sir
 chice pair of fillies that he imported,
sired by Royal Carrick, to Mr Andrew Sitchinson, Guelph, Ont." Mr. Hassard
sailed June 27th for the Old Country S. S. Tunisian, and intends bri,ging out fall and winter trade, further notice of
which many be of the "Advocate." for in later issues high-class huron co. farm for The advertisement in this issue of a offers an excellent opportunity for securing a very desirable property in one of
the very best farming districts in a quarter of a mile from is itucetield stal
sta tion, on the London alld Winglamu branch
of the G. T. R., where there is a grain levator and yood mathet for all fariu
rooduce, a sawnill ootore V. S., two churches-1 I reshyteris and Methodist. Deceased owner was it is in high state of fertility, as and farin has an magniticent orchard now growwellow clay loan, easest. Hork and well Evil effects of heary raius prof againt drouths. There is no better furming
and, no more prosyerous district, in the Whole loominion than in this section of
Huron Co. Darties dowsiring to secure an

$\$ 50$ In alotomia and Return


## PIGS ARE COMING

MAKES PIGS GAIN 3 LBS. PER DAY
Internattonal, Stoce Food Co., Minneapolis, Minm Gentlemen:- This is to certify that having used mend it to all stockmen, and aspecilly theerny recom hogs. Last spring with ounchechat had they made a gain of three pound apiec per





 WTERNATTONAL STOCK FOOD CO., WHAT PEOPLE SAY ABOUT THIS BOOK.
 me.
mery A \$3000.00 STOCK BOOK FREE

IT CONTAIN8 183 LARGE ENGRAVINGS OF HOR8ES, OATTLE, SHEEP, POULTRY, ETC.
 WPe Will Pay You $\$ 10.00$ Cash if book is not an densolibed



Shorthorns and Shropshires, $\begin{aligned} & \text { scotchand scotch- } \\ & \text { toped fanniliee }\end{aligned}$

 English Shorthorns.
星
 atchengh Farm, Alnwloke Nor

## W. W. CHAPMAII,

Soeretary of the Natlonal Shoep Breed
ors'Assoelation,
Seeretapy of the Kent or Romney Marsh
Sheop Breeders' Associat and late Seeretary of the Southdow Pedigree Live Stoek Agent, Rxporter and
Shipper All kinds of registered staek
nepsill parsonally seletered and oxported on eoek misslon, ; quotactions and exported on com
answered. Address: MOWBRAY HOUSE. NORFOLK ST. LONDON, W. C., ENGLAND.
ables-Sheepeote. London
HAMPSHIRE DOWNS
DISPERSAL SALE dit EARL OF CARNARVON, of Highclere Casile


Aurinst, 190:3.
The flock is of the higest merit, and holds
record hoth in the ehow and site rings equal t
unl, whit the the sclention selt to the


SUSSEX CATTLE
mikhext averaye daity yain, alive early maturity. The


SPECIAL OFFERING FOR THIS MONTH Ayrshire Bulls. $\begin{gathered}\text { Ianelieigh Pringe 12338, fine ind vidual, white, brown spots, aged } 3 \text { yre } \\ \text { one } 10 \text { mon }\end{gathered}$ Gueruseys. One bull, 8 months; one bull 3 yeare and 6 mones. ISALEIGH GRANGE FARM, - - - - DANVILLE, p. \&
AYRSHIRES
WATSON OGILVIE,




ROBERT HUNTER, Manager.

JULY 15, 1903
GUARANTETE A 85.00 PAOKAGE OF postpaid, to malke any coo under 10 years old breed,
or refund money. No trouble, no riske, Given in teed Live a day.
IERSEY RUI FOR
and ull sale
${ }^{\text {and }}$ a mon ha oll. Sirill make a splendid dairy sire and


 Having iven up butermaking, owing to scarcity
of euitable help. Tam offring two fine, def p-milking
Jersey cowe, three
 2ath. Also Jersey bull, , Brampton Hero, two years
old, sires by bramptons Monarch (imp., nut of
deep-milking dmm. SUNNYLEA FARM. For sale : Jerseys-6 yearling bulls; females sows, different agees shromhire eheer rams and
owee of good breeding. Pricee retionable.
mat. H. E. WILLIAMS. Knowlton. P. $\mathbf{Q}^{\circ}$ Three Ane YNAP IN JERSEEYS.
 W. W. BVERITT, Dun-Edin Park Farm,
Ohatham, ont.
Box 552. Ten Yearling and Two-year-old Heifers sired by, Nero of Glen Rouge, and bred to E. B HINMAN \& SONS, Grafton, Ont. Jerseys.

Just reoeived a shipment of Jereeys direot from
England and the Island of Jeroey, which brings our



## Lyndale Holsteins

We are now offering a number of young bulls, fit
for gervie, gired by Lad Luald
calver of both sexes. BROWN BROS.,
HOLSTEIMS, TAMWORTHS, COTSWOLDS and younger ones, Choung ooars and sowe fit to breed,


 finportid temale thatt have proven their worth
the pail. THOS. B. OARLAW \& SON Maple Park Farm Holsteins Silene M MACKLIN, for eale.

## Riverside Holsteins

Choice young bulls for fale, from 3 to 7 months
old, whose sire and dar
vanced Record of Merit. haldimand Co. RiCHARDSON, \& SON,
Brookbank Holsteins

 ore meame

Rldgedale Farm Holsteln-Frieslans for Sale.

 HOLSTEINS TAMWORTHS,

 BERTRAM HOSKIIN,


- . BoLlert Casel, on

Arrohire Bulls



## THE FARMER'S ADVOCATE



## FLIES on CATTLE.

HORN FLY OIL
Protects Cattle, Horses, Dogs, etc., from Flies of all kinds. Gnats, Mosquitoes, Fleas and other Insects. Especially aluable for Milch Cows and Working Horses
WM. RENNIE, Toronto.

## 674

You Can Test
The Kidneys
And Find Out if You Require
the Assistance of Dr. the Assistance of Dr Chase's Kidney-Liver Pills.

 まuwazuawaux w


 Disinfecting Fluid

W. S. CARPENTER,
 on ghearing ram, frrtat and gecond on ared ewes. and
gecond on the pont
nedrat tume exhibiting.
If in noed of a frate-talase yearing ram, imported of or home.
bred, writet
Your


IMP Wabash and ©.t.
 BROCRE \& LANQMAID, COURTIOE.ONT.

 SHROPSHIRES Sheppock or 110 head, fine, health
 внян

THE FARMER'S ADVCCATE.

GOSSIP
Ont. whose dispersion sale by auction advertised in the and Yorkshire hogs, place in the "Advocate," took writes that he had a very June 19th sale, his grade cattle, which were a good class, selling for good prices, and the farm of 110 acres for $\$ 7,450$. Owing Summerhill Member, the herd of was not complete, but sold fairly well,
his brother, Mr. Geo. Smith, securing some of the best for a foundation herd
Mr. Fred Smith intending to spend a few months in berta, hoping to regain his health, and if
he finds the country suitable may settl there.

ST, LOUIS WORLD'S FAIR NOTES F. D. Coburn, Chief of the Department
of Live Stock of the Louisiana Purchase Exposition, has arranged for a total o over 26,000 prizes in the classification,
for horses, cattle, sheep, swine etc., for the World's Fair shows next year. These are unprecedented in amount, and are divided ambng twelve
breeds of bee breeds of beef and dual-purpose cattle
with 2,352 prizes; the, 560 prizes : nineteen breeds dairy cat 3,458 prizes; eleven breeds of horses, $\begin{array}{ll}2,772 \text { prizes; } & \text { fourteen breeds of sheep, } \\ 2,548 \text { prizes; } & 375 \text { varieties of poultry }\end{array}$ and pigeons, 10,300 prizes; fifty-seven breeds of dogs, 2,604 prizes. There are
thirty-two additional prizes for sing thirty-two additional prizes for single
cows and herds entered in the dairy
demonstration, five for oxen fifty-five for demonstration, five for oxen, fifty-five for
mules, and 1,310 for the estimated dis plays, of pet stock, vehicles, etc.
Provision tim Provision has been made for five cash
prizes, and two honorable mention The final arrangements of the classifications may still further enlarge the num-
ber of prizes offered ber of prizes offered.
Mr. Coburn will hereafter be officially known as the Chief of the Department of
Live Stock. The Exposition has added much to its popularity in making live
stock an independent departiment and giving it a separate chief, wine a prize
fund of $\$ 250,000$. This substantial
recornitin recognition will do much to attract at-
tention to the great St. Louis enterprise and secure the hearty co-pperation of
stockimen, fanciers and ot hers interested.
This is the first world's fir This is the first world's fair to give live
stock the prestige and rank of a department with an independent chief,
and the great extent and high character and the great extent and high character
of the live stock exhibits already assured
the World's Fair couline this liberal policy.
The Louisiana Purchase Exposition will the the first world's fait to provide for
the holding of public sales of pure-ther
sto stock Complete plans have been marle
for a rimb for pult'ic sales aprart from
the main livestock amphitheatre, so that salos mas be held wit hout interfferinge wit
the judging or ot her foat wins of the exhib anspices of the hreeders be under the
terested. and witions in
thithin the periont in whiml following associations have alteady 'Tl American Shorthom Brecters' Assoviation
 Percheron Horse 1sreders' and Importer Association. Suine-American Dolati.
China Record Company, National Durat -ersey Swine Breeders' Association, A
erican Berkshire Asshctationn as a leading feature of the live-stoc awards at the Louisiana purchase Ex
position is the premier or sweppstalin championships for each breed. These ar
intented as arand
ser ine

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## Large English Yorkshires



Our winnings at the large shows, for 1901, are as follows: At Toronto eve y possible first prize and
eseconds, two silver medals, and first for pen of pure-bred bacou h hege, also sweepstakes on ber over all breeds; at London every possible frits but two ; while at the Pan -American, where our herd was
divided, half going to Toronto, wo won six out of ten possible frats, also sweepste divided, half going to Toronto, wo won six out of ton possible flrsts, also sweepstakes on boar any age. At
the Pan-American (Buffalo), Toronto and London there were thirt six


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## ed Darme all ages.

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have a limited number of young boars ing, and for ale, suitadnle for this young boars and sows
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Clarkson Station, $G$. T. E. GLENBURN YORKSHIRES $\begin{gathered}\text { won Gold Medal at } \\ \text { Ottawa } \\ \text { Gope } \\ \text { Herd }\end{gathered}$


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arived, and is rather better than I
expecte. Inmportd boars and ows
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now for sale at prices consistent
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allows the slow flowing blood to coagulate and gather in a gradually accumulates then until it almost closes the channel, thus interrupting state upon the inner walls of the veins; it distension of the weakened vessels and producing that consequent dragging sensation usually compation, causing pressure and This affliction is extremely distressing, for it leads to a most agent dragging sensation usually complained of in varicocele. of the general nervous system and causing total impotency. Of all troubles with which men are afflicted it is the most

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