# PAGES MISSING

MAY 2, 1907

THE FARMER'S ADVOCATE.



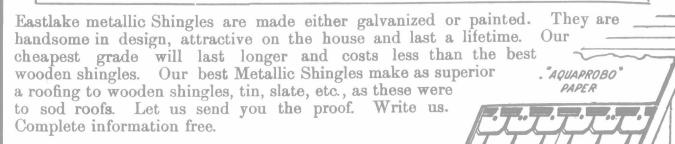
Lightning has no effect on them. They are absolutely fireproof. Rain and snow-heat and cold—can't rust, crack or warp them. The perfect fitting side lock (exclusively Eastlake) makes the roof absolutely leak-proof, and cost of putting on much less.

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We guarantee Eastlake Metallic Shingles to be made of better material, more scientifically and accurately constructed, to be more easily applied, and will last longer than any other Metal Shingle on the market. Our guarantee is absolute. Our Shingles have been made since 1885.



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8-48

do.

There are two young men of St. Louis, partners in a business concern, the younger of whom for a long time was addicted to the habit of reading to the other extracts from letters of a tender nature penned by a young woman of Chicago, signing herself " Claire." Not so very long after, the elder partner returned from an Eastern trip in time to attend the wedding reception of his friend and business associate. In his best manner the senior member of the firm offered his congratulations to the bride.

"I do not feel that I am addressing a stranger," said he, "seeing that I have frequently had the honor and pleasure of hearing extracts from his darling Claire's letters."

"I beg your pardon," responded the bride, into whose eyes there crept a curious expression, "but my name is Violet."



740

That is one place where mistakes are specially costly. To come suc-cessfully through the season to the harvest time, and then fail of a just reward because of inferior or imperfect harvesting machines is unfortunate, in-deed. You may make sure of success by buying a Deering binder.

The Deering is designed and con-structed with a view to efficient and long continued service. It meets fully the most exacting demands of the grain grower grain grower.

Should the grain be tall or short, light or heavy, standing or down and tangled, the Deering will harvest it all cleanly and without loss.

Being made in four sizes—5,6,7 and 8-foot cut—the Deering binder meets a wide range of uses.

The wide-cut binder is specially valuable to the large grain grower, being of unusual capacity.

with a tongue truck, which reduces the draft and weight on the necks of team. We can't bring out the many special features of the Deering binder in this small space. You should read about these in the

This extra wide binder is provided

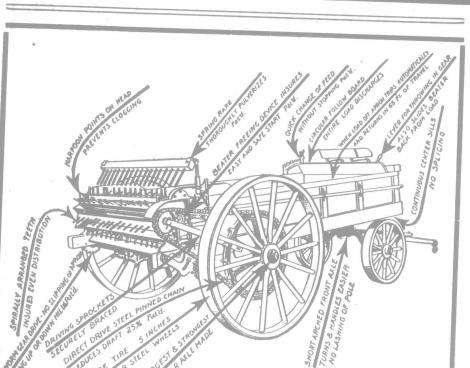
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You should read about these in the Deering catalogue. The Deering line of harvesting ma-chines is complete and includes, besides grain and corn harvesting machines, binder twine, mowers, tedders, sweep rakes, side delivery rakes, hay loaders, stackers. Also a complete line of tillage implements and seeding machines, com-prising disk drills, shoe drills, hoe drills, cultivators and seeders, smoothing, spring tooth and disk harrows, land rollers and scufflers. Also gasoline en-gines, cream separators. hay presses. wagons, sleighs, and manure spreaders. Call on the local Deering agent and

Call on the local Deering agent and discuss with him the qualities and ad-vantages of Deering harvesting machines. Any of the following branch houses will supply you with the Deering catalogue.

CANADIAN BRANCHES: Calgary, London, Montreal, Toronto, Ottawa, Regina, St. John, Winnipeg,

INTERNATIONAL HARVESTER COMPANY OF AMERICA, (INCORPORATED) CHICAGO, U. S. A.





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# THE FARMER'S ADVOCATE.

You can put on a roof that will

YOUT

It's Tress Money

Either roof will cost you about the same in

money at the start. But the "Oshawa"-shingled roof will be FIRE-PROOF-literally; and wind-proof actually; and lightning-

proof - positively. That's the hundred-year roof! And that "Oshawa"-shingled roof will be weather-proof for a century. We'll GUARAN-TEE in every way for a quarter-century-from

now till Nineteen-Thirty-Two.

**MONTREAL** 

60

221-3 Craig St. W. 11 Colborne St.

Guaranteed in writing for 25 years—and you needn't ever paint it, even! That's saying something, isn't it?

What would your mill-man say if you asked him to guarantee cedar shingles for even

ten years? He certainly would make remarks! And even the best cedar-shingled roof will be leaking badly inside of ten years. Seven out of ten of them leak the first time it rains. No woodshingled roof is fire-proof for a minute, and the first high wind

that catches a loose shingle-whoosh ! goes half your shingled roof over into the next township. **The** 104

TORONTO

last a hundred years and be the right kind of a roof every minute. Or you can put on a ten-year roof that will probably leak after the first rain hits it, and keep leaking till it is rotted away. Either roof will cost

-ten feet, by ten feet. Compare that with the present price of cedar shingles - how does it strike you? And you can put on these "Oshawa" Galvanized

Steel Shingles yourself,

easily, - with no tools but a claw-hammer and Simplest thing you know-can't get 'em on snips. wrong.

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Yet cedar shingles cost you just

"Oshawa" Shingles lock on all four sides—whole roof is practically one sheet of double-galvanized steel, that never needs painting.

And GUARANTEEDdon't overlook that. Guaranteed in writing, over the seal of a company with a quarter-million capital, guaranteed in plain English, without any ifs or buts, for 25 long years.

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That's the argument in a nutshell—cost the same

VANCOUVER

as wood - shingles; fire - proof, water - proof, rust-proof, lightning - proof; easier to put on; and GUARANTEED. That's the "Oshawa" proposition ! Tell us the measurement of any roof, and we'll tell you exactly what it will cost to roof

it with less work and for less money.

Plenty of facts that concern your pocket-book come to you as soon as you ask for our free book, "Roofing Right." A post card will do to ask on.

Why don't you ask now? Pedlar People.

WINNIPEG



Of Oshawa <sup>LONDON</sup> <sup>69</sup> Dundes St.

Field Peas have sold high for several years, -75 and 77 cents a bushel last year. This year's export demand will be keen, -- profit there for shrewd

farmers.

# PPP

**HIS Year** 

741

Two profits in a pea-crop, —the peas and the vines, —rich cow-fodder, valuable green manure, high in nitro-gen. Now that the pea-bug has quit business in Canada, peas PAY and Pay BIG.

# **PPP**

Easy crop to handle, —quick-growing, —does well even on 'tired' land, —and aSURE MARK ET at profitable prices for all you can raise. Plant peas early,— April and early May is best.





Roofs

Tools **A-Plenty** 

"Oshawa" Galvanized Steel

Shingles are GUARANTEED in

every way for Twenty-Five Years Ought to Last a Century

built. But the scarcity of stone and its prohibitive cost-not to mention the length of time necessary to construct one-make the stone fence a luxury which few of us feel like indulging in.

But as far as strength and years of service are concerned, a worthy succes-sor is found in the Frost Wire Fence. It is the strongest fence constructed to-day. It rivals a stone fence in the years

**OTTAWA** 

423 Sussex St

 It is the strongest fence constructed to-day. It rivals a stone fence in the years of service it will give.
 Unlike the stone fence. the Frost Fence is not constructed at a prohibitive cost. It is really a necessity instead of a luxury.
 You need the Frost Fence on your farm because it will improve the appearance of your estate-increase largely the value of your property. You need the Frost Fence because it will keep horses, cattle and pigs absolutely con-fined in the fields encircled by It. It holds them prisoners same as a stone wall would. They cannot break through or root under it. root under Notice that the lateral wires on the Frost Fence are of a special

grade No. 9 hard steel coiled wire, heavily galvanized. Any grade of coiled wire will expand, but the only kind we know of which will unfailingly contract is this special grade we are using on Frost Fence —the kind that always keeps Frost Fence taut.

Look at the stays on the Frost

Look at the stays on the Frost Fence. How rigid, and straight they hold the fence! They are made of No. 7 hard stude wire—not the weak, filmsy No. 9, No. 13 or No. 13 soft wires used as stays on many fences. See the difference between a Frost galvan-ized lock and others. Unlike others, the Frost Lock is the strongest, most unyielding part of the fence—not the weakest. And it practically welds the lateral wires to the stays where they cross each other, which assures a perfect distribution of any strain or enormous pressure that may occur—adds years to the life of the fence. Contrast the appearance of the Frost Fence with other fence which has been up for the same number of years. You'll find the difference all in favor of the Frost. Truly the Frost Fence is the strongest fence built to-day—th

99

DSL Fence

Truly the Frost Fence is the strongest fence built to-day-the most solid kind of an investment. If you would like to know more about Frost Fence write for our Free Catalogue, which explains it in detail.

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AVE to be an application to Mr. Alfred B. Owen, Ages to the moral spon application to Mr. Alfred B. Owen, Ages to the boys who are writing periodically from England to be placed in this sentry. The young immigrants are mostly between x and x3 years of age; all will have passed through a period of training in Dr. Barnardo's English Institu-tions, and will have been carefully selected with a few to their moral and physical suitability for Oanr-ian He. Full particulars as to the terms and com itions upon which the boys are placed may be ob-ained upon application to Mr. Alfred B. Owen, Ages to Dr. Barnardo's Homes, sx4 Farley Ave., Torento.



# Ample TIMBER for All Purposes

Prof. Thos. Shaw, after personal inspection, writes: "This rich and beautiful farming section lying in the vicinity of Last Mountain Lake, embraces one of the finest areas in the Northwest. The land is undulating in this region, mostly open prairie. The soil is rich black vegetable loam, from one to two feet deep, and is underlaid with a clay subsoil. Frost, to injure the wheat, is virtually unknown. Being thus favored so highly by nature, it is not surprising that the production of wheat in this region is phenomenally high; in several instances forty to forty-five bushels per acre have been reaped. Oats, Barley, Flax and all small grains yield relatively as good as those of wheat. Potatoes grow most luxuriantly. Two or three years ago there were not more than thirty-five settlers in the entire area; now there are over a thousand, and others rapidly coming in."

Send 25c. for our beautiful new photographic souvenir, entitled "The Lake and Lands of Last Mountain Valley," which is not only a work of art, but a book of authentic Information. We will also send Atlas of Canada, Maps, etc.

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# Wm. Pearson Co., Limited,

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"Persevere and Succeed."

# and Home Magazine

Established 1866.

Vol. XLII.

# EDITORIAL.

THE O. A. C. AND THE ONTARIO WINTER FAIR.

That the dairy industry has a good friend at Toronto in the person of Hon. Nelson Monteith, Minister of Agriculture for Ontario, is evident from the fact that over \$85,000 has been set aside in the estimates this year for purely dairy work, this not including the somewhat indefinite amounts indirectly granted through prizelists and demonstrations in the Dairy Departments of our numerous annual fairs. The figures represent an increase over last year of something like thirty thousand dollars. Nearly \$28,000, or, to be exact, \$27,915, goes to the work of the Dairy Department of the Ontario Agricultural College; \$35,000 is for the work of dairy instruction, which has been taken over this year by the Department of Agriculture, to be administered from Toronto, and the rest is for the Eastern and Western Dairymen's Associations and for the two dairy schools, at Kingston and Strathroy, the latter of which, by the way, is to be wound up at last.

The best thing about this generous grant is that every dollar of it is to be expended for useful purposes, viz., the improvement of products, the crux of the situation, in so far as Provincial aid to the industry is concerned. There is no lavish handing out of funds for purposes of questionable utility. This is good, because, while \$85,000, or even double that, is not too much to spend where we are sure of getting value back, on the other hand ten cents would be too much to lay out without prospect of return. We are glad that the Minister seems to recognize this important principle in the disposition of public monevs.

There may have been a shade of disappointment in some quarters that he did not see fit to acceded to the request of the deputation which

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doubling, the present housing accommodation, enlarging existing features, especially the dairy department, and possibly adding horses as well. The inauguration of a separate dairy show, if it proved a success in drawing attendance-which is by no means certain-would detract from this purpose, curtailing the growth of the present fairs. As has been wisely pointed out, the Ontario farmer is not an overly-frequent traveller, and one Winter Fair a year is enough. Most of our husbandmen are interested to some extent in several lines of farming, and it is to their very great advantage to have a winter fair where they can take in everything in the whole range of farming operations. Agriculture in Canada is not yet so far specialized as some would have us believe, and probably never will be. Besides, even specialists will be much better off for rubbing up against their neighbors who are competing in other lines. We must guard against the danger of rival class interest and prejudice. It is well to preserve the cosmopolitan character of our agricultural assemblages.

That dairying has not had a sufficient degree of consideration at the Guelph fair, is quite true. It is an outgrowth of the fat-stock show idea, and milking competition and dairy lectures were added as a sort of appendix. This must be changed. It is the Minister's intention that it shall be changed. The dairy-breed associations should have full and effective representation on the Winter Fair Board, and the whole exhibition and programme of lectures must be conceived with as much care to further the dairy cause as to encourage the production of better meats. Until this is tried conscientiously, it is premature to undertake a National Dairy Show, although the discussion of the project may bear good fruit in stimulating the Guelph City Council to co-operate with the Department of Agriculture in providing the needed extension of quarters at the Royal City

Another point that has been incidentally brought out is that the Ontario Agricultural College was established too far west in the Province to serve as a suitable center for the agricultural r in locating the Ontario Provincial Winter Fair, and is an equally cogent reason for having the Dairy Exhibition at the same place and time. The more people we can draw to the O. A. C., the better for it, for the country at large, and for each branch of agriculture represented.

# No. 762.

# UNRAVELLING THE TANGLED SKEINS.

A pretty good indication that the Royal Insurance Commission touched something worth while, is found in the systematic attempts of some person or persons interested to discredit its findings and discount its methods. Scarcely a day passes that we do not receive a marked copy of some paper or other, in which articles or spiteful cartoons cast reflections on the Commission and its report. Some of the editorials are more or less pointed, but an organized effort must be reresponsible for this persistent attempt to instruct us, and, no doubt, the editors of many other publications as well.

Without entering upon a review of the personnel, the proceedings or the recommendations of the tribunal, we beg to express our belief that the appointment of such a body was a wise, timely and most fortunate action. - That its inquiry revealed no such gross evils as had previously been discovered in the American Republic, is a matter for congratulation. The chief vindication of its appointment is the salutary corrective influence which the publicity given to its investigations will exert. Through it all the public has been much enlightened concerning the actuarial facts underlying life insurance, and many a man is in a better position because of this to choose intelligently the company, and more particularly the form of policy, in which to deposit his premiums.

One point brought out has been the perplexingly numerous forms of policies offered. The commission submits that four kinds of policies are ample to provide our needs, and recommends that all companies be required to conform by law to these four. This is a needed move in the direction of simplicity. The Commission also lays down the principle that insurance companies should not be interested either directly or indirectly in the promotion of other companies, and further submits certain lines of investment which it thinks they should be forbidden to touch. Whether the investments prescribed and those blacklisted are in all cases wisely named or not, organizations of the Province. But the presence the recognition of the principle that insurance of the College at Guelph was the determining fac- companies are simply trustees, and should therefore confine themes safe lines of investment, is sound. The recommendations as to Government inspection and publicity are also in the right direction. Much ado has been made because, in probing the investments of a certain fraternal insurance company, the unravelling disclosed some skillful manipulation\*of silken financial threads by certain gentlemen who fancied themselves secure under the cloak of "private business," and the attempt has been made to insinuate malign political motives in the appointment of the Commission. The men who are seeking to raise this cry at the eleventh or thirteenth hour, will not find it much to their advantage with the independent thinking public. A scrutiny of the Commission's report seems to show ample evidence of political impartiality in its strictures and reproofs. Men of both political parties were rebuked. The plain truth is that the Insurance Commission, while perhaps not a perfect instrument-few human institutions are-has not only been a good thing for our insurance policyholders, but will in the end work only benefit to the deserving companies, while the fact of its appointment will have a deterrent influence on men in other business who may be disposed to chicanery and graft. This is the day when the people are asserting their rights, and the high-handed methods of the captains of finance are being regulated for the general good. The Insurance Commission is only

waited on him in March to ask for a grant of \$4,000 towards the holding of a National Winter Dairy Show in St. Lawrence Market, Toronto. On behalf of this enterprise, it was argued that the dairy interest is inadequately served at the present winter fairs, Guleph and Ottawa; that a great special dairy show at some central point is desirable to advertise the industry, to bring patrons. makers, dairy-stock breeders, dairy-supply firms and others together for their mutual education, and to afford a rendezvous for the annual meetings of the several organizations pertaining to the dairy business. Beyond the Minister's public utterances, we do not know his mind on the matter, but it is certain that his objections to making this grant were based on broader grounds than a mere reluctance to part with the few thousands of dollars asked.

Ontario has at Guelph and Ottawa a couple of unique institutions, unequalled probably by any other exhibitions in the world, unless it be those at Amherst and in the West, which have been modelled after the Ontario pattern, for practical educational value. We have worked the idea out ourselves, and are entitled to no little Provincial pride in the results. Moreover, the possibilities in the way of their extension are indefinite. It is Mr. Monteith's avowed aim to use the Guelph fair, at least, as the nucleus round which to build up a far greater fair, doubling, or more than ture.

The Peterboro deputation, which had hoped to attract the proposed dairy show to their city, instead of Toronto, based a strong plea on the fact that Western Ontario has reaped a lion's share of the benefit from the O. A. C. and the Ontario Winter Fair. For the lack of the many incidental privileges of having an agricultural college in its midst, they claimed, Eastern Ontario was not keeping pace with the West. However, looking ahead, there is a ray of hope. In time the Macdonald College at Ste. Anne de Bellevue will become a center for the agricultural interest of Eastern Ontario and Quebec, and by reason of geographical and climatical conditions, it will serve that part of the Province much better than the Guelph College ever can. Meanwhile, for a few years, let us make the best of things as they are, by carrying out a consistent policy of concentration at Guelph, building up both the College and the Winter Fair in all departments, not forgetting, meanwhile, to do what can be done for Eastern Ontario and the Eastern Live-stock and Poultry Show, by way of partial compensation for remoteness from the Provincial school of agricul-

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# THE FARMER'S ADVOCATE AND HOME MAGAZINE

THE LEADING AGRICULTURAL JOURNAL IN THE

DOMINION.

PUBLISHED WEEKLY BY THE WILLIAM WELD COMPANY (Lasted)

### JOHN WELD, MANAGER

ANTHINE FOR THE FARMER'S ADVOCATT AND HOME JOURNAL, WINNIPEG, MAN,

### LONDON (ENGLAND) OFFICE : W. W. CHAPMAN, Agent, Mowbray House, Norfolk Street, London, W. C., England.

- \* THE FARMER'S ADVOCATE AND HOME MAGAZINE
- In published every Thursday. (5a issues per year.) In impartial and independent of all cliques or parties, handsomely mustrated with original engravings, and furnishes the most practical, reliable and profitable information for farmers, dairy-mon, gardeners, stockmen and home-makers, of any publication in Canada.
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an earnest of the rising spirit of the times. Incidentally, we hope to see some of its recommendations crystallized into Federal legislation at the next session of the Dominion Parliament.

# FREE RURAL DELIVERY-WHEN ?

Already, during the short regime of Hon. R. Lemieux, the Canadian Postal Department has required the United States authorities to raise the rates on second-class matter, such as newspapers and the like, coming into Canada from one to four cents per pound, and has induced the British authorities to reduce the rates on second-class matter destined for Canada from eight cents to two cents per pound-all of which is designed to restrict the circulation of an undesirable class of periodicals in this country and cultivate ties of sentiment and business with the motherland, by encouraging the circulation of British periodicals. As another move in the direction of improving the Canadian postal service, a supplementary item of \$50,000 has been placed in the estimates to extend free delivery of mail matter to the smaller cities where the P. O. revenue exceeds \$10,000and the population reaches 10,060 or 12,000. Several official tours are to be made this season, including the West, with a view to improving the service. Whether or not these will include an inquiry into the postal needs of the agricultural areas of the Dominion, including free rural-mail delivery, or a betterment of the service in other ways, no hint is given up to this time.

DON'T LET THE CRUST FORM

In the tillage of the land a vast amount of work is done to poor advantage for want of a clear idea of the objects of cultivation. It is well to regard the soil as a natural laboratory, where many complex changes are going on which result in the liberation of plant food. These changes are chemical and bacterial in their nature, and they take place only in the presence of heat, air and moisture. The supply of heat depends chiefly on nature's bounty, but the great objects of cultivation are to supply the other two favorable conditions, viz., air and moisture, and also to combat weeds. The control of weeds, however, should be brought about as an incidental effect of cultivation. Seldom need it be the primary object on a well-managed farm.

To provide air and moisture in the soil, the great essential is to preserve, under all possible conditions, a loose mulch of surface soil. This acts as a blanket to protect moisture below from the evaporating influences of sun, wind and air above. Investigations by the Department of Physics of the Ontario Agricultural College show that in the dry growing season of 1905 grain crops used two and a quarter times as much moisture as fell on them during their period of germination and growth. In the wet season of 1906 they required one and a half times as much as was supplied in the rain that fell. This extra moisture must have come from the subsoil, where it has been stored up chiefly in the dormant season. We can thus perceive the great importance of conserving moisture carefully. Much can be done in this direction by thorough pulverization of the soil to plow depth, thus increasing the water-holding capacity of the lower soil; but far more important it is to have the surface layer of two or three inches dry and loose-the drier and looser it is, the more effectually will it conserve the moisture below. Even a slight crust will impair its efficiency, tending to draw the soil moisture to the surface, where it is quickly evaporated. A harrowed or scuffled surface will preserve moisture very much better than a rolled one, or than one over which a crust has formed. To save soil moisture, therefore, never let a crust form when it can be avoided. If crust does form, break it up at the earliest possible moment. Every day's delay means serious loss of moisture, which, if the season should turn out to be dry, may be a very serious matter, and is regrettable in any By keeping the surface soil loose, we precase. vent the baking of clays, and thus insure a free range of root growth. Baking is caused by the sudden drying out of a moist, adhesive soil. It starts at the surface as a crust, and thickens as the soil dries out. The soil mulch prevents the rapid drying out, hence keeps the lower soil moist and mellow. Even in a prolonged period of drouth, this under soil will remain friable, and in case the dry weather lasted long enough that

HORSES.

# FOALING TIME

Occasionally one hears of early foals, and, in the hands of thorough horsemen, satisfactory results being obtained, but the rank and file of those breeding mares prefer to have the foals come the latter end of seeding, or after the rush is over. In a country where seasons are so short and the spring rush so marked, and where the mares are of necessity worked, it would appear as if the May foal would be most acceptable. This point will need to be considered by farmers when returning mares this season, as some catch the ninth day after foaling, and thus gain three weeks on the previous year.

Almost invariably better results are obtained from working the mares right up to foaling The udder is thus kept from becoming time. hard and inflamed, and thus mares are less likely to be irritable with the foal, and the foals are rarely constipated. The writer has taken mares out of the harrows to foal, and the offspring were invariably strong and lively. Many people are puzzled as to the signs of, immediate foaling, as the record kept from the service is frequently inaccurate. In addition to the increasing pendulousness of the body, two signs are pretty reliable, viz., the waxing of the teats, usually appearing within two or three days of the act, and the drooping over the rump, due to the relaxation of the ligaments, one of nature's provisions for the safe outward passage of a large body as the result of expulsive effort on the part of the mare. Some mares run milk for days before foaling, a sign not at all welcome by horse breeders, who claim that such usually portends bowel trouble in the Toal. If the mare has been fed a laxative diet, a little boiled flaxseed and bran, and limited amounts of hard grain, as well as being worked, little trouble need be feared regarding constipation in the foal. When it does occur, it needs very careful A homely practice on a stud farm. attention. well known to the writer, was the giving of a teaspoonful of unsalted fresh butter to the foal as soon after foaling as possible. Whether that has a beneficial influence or not, we are not prepared to say, only constipation troubles in foals were never experienced. The foaling lox needs to be roomy, and should be dry and well bedded. As a precautionary measure, it is wise to be prepared with a disinfectant solution to treat the navel string, for the prevention of navel or joint-ill and diarrhœa, causing the loss of hundreds of foals every year.

The act of parturition in a mare comes on very suddenly, and, all being well, is soon over. One may leave a box for a quarter of an hour, the mare seeming as quiet as possible, and come back to find her up and licking the foal. Usually there is a little more sign, the mare often chewing a few mouthfuls of hay, then dozing for a few minutes, and waking with a slight jerk. These little signs of uneasiness are very familiar to those who have spent long night watches A mare is the cleanest of all females, and, in ordinary cases, one cannot soil the hands. Slight matters may be put right by anyone at all familiar with the work. It is a great relief to see the fore feet and the nose, and know that all is If there is any doubt, one should once, and if there is any work to be done, one should strip to the waist. In malpresentations, a veterinarian should be secured as soon as possible, as the work is extremely hard, and oftentimes requires the use of instruments. The intervention of professional aid is for the purpose of saving the mare. Foals, unless delivered quickly and easily, are usually dead on A sequel of difficult foaling is inflammation of the womb, which also may be caused by the afterbirth being retained. Retention of the membranes (afterbirth) in mares is very dangerous, blood-poisoning and death oftentimes resulting in a couple of days. In normal foalings the afterbirth should come away in half an hour or so, and if not expelled then, should be removed, care being taken that no portion of it is left to cause straining or bloodpoisoning. Unless present at the foaling, the navel cord will likely have been broken, but in case it is not, it should be tied about an inch and a half from the foal's body and dressed twice daily with a strong carbolic solution; even the acid, as procured at the average drug store, neav be used, or formalin. Many people, especially novices, are worried because the foal seems to lack control in the use of its limbs, or is crooked on its legs. Draft foals, especially out of underbred mares, are frequently this way, but in time (a month) straighten up all right, although the foal may have walked right on its joints at

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## A WELCOME ARRIVAL.

I think your paper a very fine farm journal. and we all welcome it on its arrival each week. Every progressive farmer ought to read "The Farmer's Advocate." W. A. WALLACE. Carleton Co., Ont.

the lower soil actually did dry out, be much less hard than if it had quickly dried out by thickening of a crust above. If the value of the soil mulch were better understood, there would be more general use of the harrows to run over clay spots in the spring, instead of waiting till the whole field was ready, and then trying by roller, harrows and disk, to break up the dry, caked furrows.

A soil mulch also provides for the aeration of the soil, which is just as indispensable as the ventilation of a stable, for the processes by which plant food is liberated will not take place without air in the soil, and there must be continued change of air, too. The conditions under which aeration or soil ventilation is accomplished most readily are a moderately mellow soil beneath and a loose, dry mulch above. A hard, caked or soggy, wet surface does not conduce to the free soil ventilation, and is very undesirable on every count. Nor will the cracks that form in a driedup field help much to ventilate the soil, for, though they may let the air down, they do not distribute it through the soil body.

Finally, the cultivation which aims to prevent crust from forming, or destroy it promptly if it does, will also kill germinating weed seeds, with no particular pains or effort at all. A weeder used in this way will do more to keep down weeds than a broad-share cultivator can accomplish in destroying them.

In fact, about nine-tenths of the gospel of soil cultivation may be summed up in the simple injunction, " Don't let the cutor form."

There is often trouble to get the foal to suck. An overfond mare will keep turning round to touch the foal with her nose, and give him no chance to get to the teat. With a bridle on, she can be held to give him a chance. Providing the

, and, in tisfactory d file of the foals the rush so short here the 0 ppear as e. This ers when atch the ee weeks

obtained foaling becoming ss likely Dals are n mares ing were ple are ling, as ently inpenduletty reusually the act, the ree's prohe part r days ome by usually e mare boiled of hard trouble in the careful i farm, of a he foal er that ot preles in g box d well is wise on to navel of hunn very One , the back

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### MAY 2, 1907

mare is quiet, let the foal find the teat for himself, even if he is some hours over it. He will generally blunder to it at last. To push a foal up to the mare and try to make him suck, will, if not well done, usually make him stupid, and put him quite off it. If after some hours he has not succeeded in finding the teat, a little may be milked into the hollow of the hand to give him a taste, when he will probably follow the fingerends with his lips to the teat. It is of little use pushing his head to it if he will not follow the finger-tips.

With regard to constipation in foals, do not physic them. Give mare laxative diet, let the foal have the first milk, and, if necessary, introduce a cone of soap into the foal's rectum, if it does not pass any matter in the first twenty-four hours. The first passages are dark, and if these come away and the manure is of a lighter color, one can rest assured that the first milk, containing a laxative principle, has done its work. Watch the foul, and see that the natural passages for the water and fæces are in use.

# THE FARMER'S ADVOCATE.

# CLYDESDALE REGISTRATION

In a letter issued by the Secretary of the Clydesdale Horse Association of Canada, the importance of registration of all eligible stallions and fillies of a suitable character is urged. Many stallions, standing for service in Canada, as well as breeding mares, have not yet been recorded, and the registration of their progeny, sometimes only attended to when necessary for sale purposes, is then attended with unnecessary expense, trouble and delay.

In the case of a four-cross filly, it is sometimes difficult to obtain the required information and evidence, and this becomes greater as time passes. Owners of fillies eligible for registration are urged to attend to the matter early, as it gives enhanced value to the animal, and in the case of change of ownership, no delay occurs. Every breeder is recommended to keep in a safe place, not only a record of all colts, but the pedigree of the sire and dam from which each colt is bred.

The cost of recording is two dollars to non-members and one dollar to members of the association. In the case of an animal being sired by a stallion recorded in

Scotland, but not recorded in Canada, the sire must also be recorded. In filling out application forms, care should be taken to give the correct numbers of all sires, and, if the dam is registered, her name and number also. All Clydesdale breeders are invited to join the association, sending the membership fee to "the Accountant," National Live-stock Records, Dept. of Agriculture, Ottawa. The fee is paid annually, and the advantages are reduced cost of registration, and a copy of the studbook free.

Application forms, transfer blanks, envelopes, etc., will be forwarded to all persons requesting them, from the Accountant as above, all letters to whom so addressed will pass free of postage, if the letters O. H. M. S. are placed in the upper right-hand corner of the envelope. An advertisement appears in this issue of "The Farmer's Advocate," calling attention to the above, also an announcement in our advertising columns, calling a general meeting of members of the association to consider a proposed amendment to the rules regarding the registration of imported stallions and mares, the meeting to be held in Toronto on May 23rd.

# Views of Western Horsemen Regarding Stallion Enrolment.

Three Provinces in Canada, viz., Alberta, Saskatchewan and Manitoba, have on their statute books some form of stallion-enrolment legislation more or less adapted for present-day requirements. In each of these Provinces every stallion standing or travelling for public service must be enrolled with the Provincial Department of Agriculture, the certificate of enrolment statwhether grade or cross-bred, and if pureing bred, of what breed. In addition, the owner (or owners) of pure-bred stallions make an affidavit or present a veterinarian's certificate as to the soundness of the particular stallion. The soundness clause applies only to pure-breds, the idea being to give sound pure-bred stallions the advantage over all other stallions, either unsound pure-breds or grades of any description. All stallion advertising must contain a copy of the certificate of enrokment, and every stallion must be advertised. In the Manitoba Act there is also provision for a lien on the foals got by pure-bred stallions.

In our issue of January 31st, 1907, we published an article outlining the Western enrolment law and reviewing its working out. Since then The Farmer's Advocate and Home Journal, of Winnipeg, Man., has invited the views of its subscribers on this subject, and some letters appeared in its issue of April 10th. In view of the vital interest in this subject of stallion inspection and enrolment, we give space to these letters, and may publish more as they appear in the Western paper

### BELIEVES IN ENROLMENT OF STALLIONS.

With regard to the Horse-breeders' Ordinance, I would say I have made a study of horse-breeding for 25 years. We must post horse owners to get good horses, and we must have breeding in the sires or we cannot improve our stock. Unsound horses should not be used. I would

bar horses with spavins, ringbones, or cribbers, and any person travelling such for public service should suffer a penalty. Liens on Foals .- Service of horse should con-

# THINKS STALLION ENROLMENT O. K.

I think stallion enrolment is all right if it is put in force. We are blessed with pure-bred horses around here. The farmers are all for pure-breds. As regards unsound stallions, the thing is where to draw the line? I know a stallion that has boggy legs, but he is a fine horse other ways. I would say that a scrub should not be allowed to get colts unless for the man that J. B. LINNELL. raised him. Sask

ly exterminating them, as far as public use goes. Then, again, it is of great benefit to owners of good stallions, as it greatly facilitates the collection of service fees, thereby encouraging the outlay of greater sums in the purchase of good stallions, that will rely very greatly on outside patronage. The effect of the system in this respect is already quite obvious, and, as a result, the young stock of the West are beginning to show improvement, even if, it is but slight at present. But a few years, and the benefit of the enrolment system will be felt and seen all through

the West. As to suggestions regarding the use of unsound stallions, I emphatically suggest they should be avoided, and given no consideration whatever. By "unsound," I take it that hereditary unsoundness is meant. I think the most fatal mistake breeders can make is to use animals (male or female) which are known to possess any unsoundness that circumstance would indicate might be transmitted to the off-Accidental spring. unsoundness I see no reason to object to, other than the unsightliness that may accompany such unsoundness, and the fat that the socalled unsoundness exists, but I strongly advise anyone contemplating the pur-chase of such an ani-

mal to thoroughly

satisfy himself that

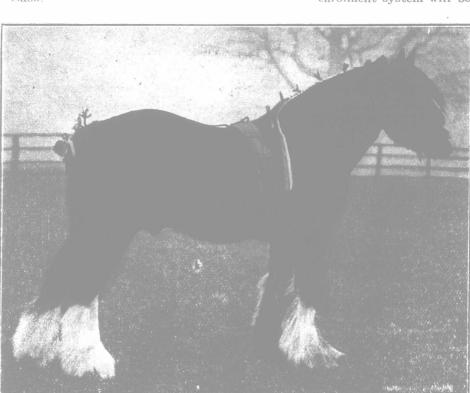
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stitute a lien for horse fees, without registration, if claimed within eighteen months after fees are

We have had good results from enrolment here, but there should be a man appointed in every district to see the law is put in force.

A. G. MORROW

# ENROLMENT SYSTEM PROTECTS OWNERS OF MARES AS WELL AS STALLIONS.

I think stallion enrolment is a very good system, as it protects those who are breeding mares; also owners of pure-bred stallions. I keep my stallion for my own use, with the exception of a few neighbors who bring their mares to be bred. This being a ranching country, nearly all the ranchers keep their own stallions, from which a lot of good horses are raised, but the homesteads around are being taken up fast, and I expect it will be a farming country before long. I do not believe in breeding from unsound horses, and I think stallions ought to be certificated as such, according to the nature of their unsoundness

ROBERT BLYTH.

# ENROLMENT ORDINANCE NEEDS ENFORCING.

The present system would be all right, providing it were carried out, but it is not. I know of several around here, common mongrels, plugs, that travel as registered horses, but they are not enrolled, and they run them any way from bull price to a plug of tobacco, and it makes it had for the man with the good horse

Re unsound stallions. I would not use a blemshed horse, unless I knew the blemish was caused an accident. I should suggest that the Deother the should enforce the law with regard to R. HARTLEY.

# Bramhope Cardinal 24058.

Shire stallion; bay; foaled 1904. Imported and owned by Messrs. Morris & Wellington, Fonthill, Ont.

# ENROLMENT SHOWS UP BOGUS PEDIGREES.

I am strongly in favor of enrolment, as it brings out the bogus pedigrees. I would suggest a license on grade horses; say ten or fifteen dollars, and a veterinarian's certificate of soundness along with them. I think that would be an improvement. My suggestion about unsound horses would be that all horses enrolled shall have, a veterinarian's certificate, along with enrolment, of their soundness, or what they are entitled to and then the public would know what was wrong. There are so many people who do not know a sound from an unsound horse when they see one. ROBERT FRASER.

# STALLION ENROLMENT AND THE USE OF UNSOUND HORSES.

Your letter to hand regarding stallion enrolment and use of unsound stallions. Taking your questions in order, I answer them as follows

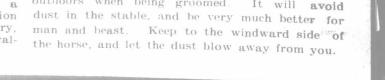
I consider the system of stallion enrolment as one of the greatest benefits to horse-breeding it is possible to have, and one that cannot be too rig-

How is it affecting the breeding of horses in your district? As the system has only been in existence since June, 1903, it cannot be expected that its effect is yet very noticeable, only as a means to prevent the scrub or mongrel stallion from standing or doing stud duty in the country and in this way it has worked wonders, practicalI suggest the animal under suspicion be left strictly alone.

As you ask what I would suggest by way of improvement to present enrolment ordinance, I suggest that the issuing of certificates to grade stallions should be done away with, as these horses are very seldom good sires, and as long as they are allowed to stand for public service there will be many owners of mares found to patronize them-a practice that does much harm to horse-breeding. Another suggestion I would make is that the time for "filing evidence of claim for service " be extended from 12 months (as now) to 14, from time such service is performed, as it gives owner of stallion a much-needed extension of time to enable him to protect himself. Owners naturally do not care to press their patrons for fees (especially in the case of a year like this, when the sale of wheat is almost at a standstill) or file a claim for service with the local registration clerk ; yet, the owner of horses must have protection, and the extension of time should give him ample time to obtain it.

R. M. DALE.

At this season it is well to stand the horses outdoors when being groomed. It will avoid





# ANOTHER VOTE FOR MR. McKNIGHT'S PLAN.

Editor "The Farmer's Advocate ":

I have been reading with a great deal of interest the different breeders' views re licensing of stallions in your valuable paper. To my mind the views in the letter written by Mr. S. J. McKnight, Grey Co. (issue, March 28th), fills the bill the best I have seen yetfor the Government to impose a fine of not less than one hundred dollars on the owner of any stallion offered for service at a fee less than fifteen dollars. A man can afford to travel a good horse at that price, but at no less. The owner of the scrub stallion, having to raise his fee to that price, would soon be out of business. as farmers and breeders having to pay the same for both would certainly use the good stallion in preference to the bad one. Now, most farmers to-day are good judges of horses, but the trouble is some of them think that five dollars saved is five dollars made, and do not stop to consider what the difference would be in the value of the colt at four or five years old. I do not think it right to pass any law that after a man goes to the trouble of getting a good stallion, and paying a big sum of money for him, that he should have to pay a license before he can offer the stallion for service.

I am glad you have given a page to this important question, and I feel sure the Ontario Government will do something to help the owners of good stallions, and encourage the others to get better ones

Middlesex Co., Ont. FARMER AND BREEDER.

# LIVE STOCK.

# CONTAGIOUS ABORTION IN DAIRY HERD.

My cows abort in from ten to eighteen weeks after service. Some abort a small calf in a sac; in others it apparently rots away, a thick, yellowish mucus being observed for three or four weeks from a time about eight weeks after service. I would like to hear through "The Farmer's Advocate " from parties who have had experience with and have conquered this pest. There is not a particle of accumulated filth in my stable. I have cement floors, and lots of fresh air. How should I disinfect ? Should I syringe out the interior of cows' hind parts. Please give directions. How is this disease communicated from one cow to another? Will switching their tails carry it from cow to cow? Could a man be prosecuted by law who would send his herd of over twenty cattle (diseased with contagious abortion) to a point twenty miles away, and have them sold in another party's name by public auction, thereby scattering the disease into probably twenty herds? Where can I secure a first-class published work on this disease ? Would the summer season be a better time to fight the disease than the present? DAIRYMAN.

In answer to the legal question put, we would say that the man has rendered himself liable to criminal prosecution, as suggested, and also to civil action for damages at suit of the party injured.

Contagious abortion is not one of the diseases dealt with under the Animal Contagious Diseases Act. The nature of this disease is not thoroughly understood, nor have scientists in any country reached an agreement as to the prophylactic measures most likely to secure its eradication.

The following measures have previously been ecommended by Dr. Rutherford. tor-General, as being advisable :

off all breeding stock, especially if not pure-bred, and restock after careful and thorough disinfection of the affected premises. Internal administration of various remedies, notably pure carbolic acid, well diluted, in doses of from one to four drachms every two or three days, has many advocates who are certain as to its utility.

# NATIONAL RECORDS CORRESPONDENCE.

Reference having been made in these columns recently to inconvenience and misunderstanding regarding the person to whom correspondence in connection with the National Live-stock Records should be addressed, the Secretary of the Record Board has kindly favored us with a letter of explanation, the substance of which is as follows, and which will, it is hoped, make more clear the situation and the reasons thereof "Ever since the Records have been in Ottawa it appears there has been much of confusion through correspondence in this connection being addressed to Mr. Henry Wade, sometimes sent to Toronto and forwarded by him to Ottawa, and sometimes addressed to him at Ottawa. The reason for this was that for a long term of years, people have been accustomed to forwarding matter of this sort to Mr. Wade, and all the forms which were sent out and which were in the hands of breeders, had Mr. Wade's name and address on them, and even at the present time there are a large number of these old forms continuing to come in. After the Records were removed to Ottawa new application forms, giving information as to the addressing of correspondence, were sent out to all persons whose names could be procured as likely to record stock. As

quired if correspondence addressed to H. G. Wade, Registrar Canadian Live-stock Records, could not be delivered to the office, and was informed that, according to the postal law they had to follow the written instructions. If correspondence were addressed to Mr. Brant, and his name were printed on all the forms, if at any time there should be a change, the same difficulty would be encountered, only in a much more serious, form than in the case of H. G. Wade, as Mr. Wade would have only a certain amount of the correspondence addressed to him at the Record Office. There is no inclination to prevent the general public from knowing the name of the accountant. All letters sent out from the Record Office are signed by that official. It was thought to be a matter of convenience for those who have correspondence with the Record Office, as it is thought that a permanent address will be found more convenient than addressing an individual who might at any time decide to withdraw from the office.

# LIVE - STOCK RESEARCH.

## O. A. C. EXPERIMENTS ON COST OF PRO-DUCING PORK.

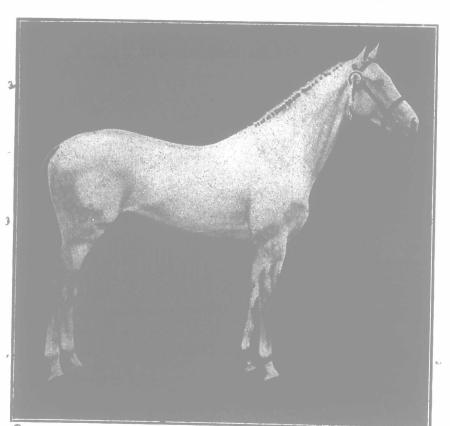
The annual report of the Agricultural College, Guelph, recently issued, contains Prof. Day's summary of the experiments with live stock conducted at the College during 1906. We shall consider in this article the part of the report covering the experiments dealing with swine-feeding.

The work was an essentially practical undertaking, being of the nature of an attempt to determine the cost of raising pigs from birth to marketing, or, in other words, to find out what

it was likely to cost, under average conditions, to produce a pound of pork. To obviate the possibility of controversy, the question of the valuation of foods was first considered. The valuation of purchased foods presented, of course, no difficulty, but in the case of home-grown foods the question was necessarily more complicated. Having regard to the fact, however, that the trouble of cleaning and marketing is avoided, and that these foods contain usually a great deal of small, unmarketable grain and seeds ; remembering, too, that it is possible, by a judicious selection of the lower-priced feeds on the market to materially reduce the cost, it was thought that a valuation of \$26.00 per ton for meal should be considered well within reason. In the matter of other foods, skim milk was valued at 15 cents per cwt., and roots at \$2.00 per

The cost of the mainenance of the n sow was not definitely determined, but an approximation was arrived at which will scarcely be doubted to be other than fair and satisfactory. The difficulty was found in the fact that pasture and many foods of practically no market value serve largely to maintain the sow while she is not suckling a litter. It was thought, however, that an estimate of 75 cents per month would be a reasonably average allowance. If the sow raises two litters per year, and suckles each litter six weeks, there will be left about nine and one-quarter months of maintenance between litters, amounting practically to \$7.00, making an amount, therefore, of \$3.50 to be charged against each litter. A young grade sow depreciates little in value while suckling a litter, provided she is well cared for, and no allowance was made for such depreciation. Nor was any allowance made for interest, a matter of very small proportions in pigfeeding; nor for risk, which may fairly be eliminated in the average of a number of litters. To further simplify matters, labor was charged against manure, as is usually done in cases of this kind. In an average of twelve litters, the average number of pigs to a litter proved to be  $6\frac{1}{2}$ , and the average cost of feeding sow and litter during the six weeks' nursing period was \$3.74. These litters were bred in various ways, and included pure-bred Yorkshires and Tamworths, and crosses between Yorkshires, Tamworths and Berkshires. The ration fed was composed mainly of middlings and bran, in the proportion of 2 to 1 by weight. Sometimes a small proportion of ground oats was

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1. Strict isolation of all reacting animals. 2. Destruction by fire of the foctus and its envelopes.

3. Thorough cleansing and disinfection of the stables occupied by pregnant cows. This is most effectively performed by thoroughly scrubbing all woodwork with hot water and crude carbolic acid, the latter in the proportion of 4 to 5 ounces to each bucket of water, to be followed by the application of a lime wash, to which one pound crude carbolic acid to each five gallons has been added. If the floors are of earth, it is well to remove four or five inches of the soil and substitute fresh therefor. " Admit fresh air and light into the stable, especially when empty.

4. Sponge at least once a day the vulva. thighs and tail of each pregnant cow with an antiseptic solution, such as creolin, 1-30, in soft water, or a 1-1000 solution of corrosive sublimate (perchloride of mercury) in soft water.

5. Keep the floors clean and sweet, using lime freely.

6. Be careful in the use of bulls. Any bull which has served an aborting cow is a source of danger to the rest of the cows. Many herds have become infected through the stock bull having served some infected cow, and thus contracted the disease. The disease is most insidious in its nature, frequently getting into a herd from the purchase of a cow which has aborted the previous year.

Affected cows show no external sign of disease. the first evidence being, generally, the abortion itself. The best way to get rid of the disease. where it is practicable, is, undoubtedly, to feed applicant. Mr. J. W. Brant, the accountant, en-

### Flambeau.

# Thoroughbred stallion. A King's Premium winner

well as giving information on these forms as to how the correspondence should be addressed, addressed envelopes were sent out with these forms. Notwithstanding this, the old forms still continue to come in, and correspondence is still addressed to Mr. Wade and sent to Ottawa.

This being the case, as there are bound to be changes in the ordinary course of events as time goes by, it was thought it would be better to have some permanent method of addressing correspondence which would not require to be changed. It is not a matter only of the correspondence being addressed in this way, but it makes considerable difficulty sometimes in the case of cheques, postal notes, express orders, drafts, etc., being made out in favor of an in-

A number of applications for registration of Shorthorns up to the present time have been addressed to Mr. H. G. Wade, the late registrar for that breed. Mr. Wade has lately resigned, and is now located in Montreal. Before going to Montreal, he left instructions at the Ottawa Post Office that correspondence addressed to him should be forwarded to Montreal. The result is that the accountant of the National Records is receiving a lot of correspondence which comes to Ottawa, is forwarded to Montreal and then returned to the Record Office, which probably makes a delay of two days before being received at the Record Office, by which time the certificate should be returned and in the hands of the

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added to the ration, and skim milk was fed when it was available. Adding now \$1.00 for service fee, and \$3.50 for maintenance of the dry sow, the total amounts to \$8.24, to be charged against an average litter of 6½ pigs. The total cost, therefore, of a single pig up to weaning time, according to this experiment, and at the valuation of the foods given, would be \$1.27.

At the time that the report was written, but five of the twelve litters had been marketed, and the following results apply only to these five lots. The pigs averaged 176 pounds apiece, and the average cost of food per pound of live weight, from birth to marketing, was 4.20 cents. To indicate how cheaply pigs may occasionally be raised, it may be stated that one lot was fed at a cost of 3.55 cents per pound, and another at a cost of 4.00 cents per pound. Adding now the fixed charge of \$4.50 per litter, the total cost per pound, including service fee and maintenance of dry sow, averages 4.61 cents. It should be explained that these were winter litters, and it is no doubt probable that summer litters can be fed more cheaply. It is stated that until further work has been performed these results must be regarded as merely tentative.

The results of the "Co-operative Experiments with Swine," which are also included in this report, have already appeared in "The Farmer's Advocate " columns in a summary of Prof. Day's address at the recent Winter Fair. It may be interesting to note, however, that although the basis and plan of work was rather different, and such as to make comparison a little difficult, the results of the co-operative experiments are in substantial agreement with those obtained at the At the highest valuation of meal, at College. \$23 a ton, and of weaned pigs at \$2.50 each, the average cost of production in an experiment including 95 pigs was 4.99 cents per pound. the lowest valuation of meal, at \$20.00 a ton, and of weaned pigs at \$1.50 each, the cost was 4.07 cents per pound. At the average and perhaps fairest valuation of meal, at \$20.00 per ton, and of weaned pigs at \$2.50 each, the cost was 4.57 cents per pound.

The author comments that in these figures there is much of encouragement for swine breeders We believe that they should give a and feeders. more substantial status to the bacon industry in Ontario. There is a growing demand and a growing market for bacon products, not only in Great Britain, but on this continent as well. The Canadian farmer is in a better position, through the class of grain that he grows, to produce a more desirable grade of bacon than his American neighbor. That he can do it as cheaply as is here evidenced, is highly gratifying. We commend a consideration of these figures to every reader, and suggest that they prove a stimulus, not perhaps so much to an increase in the number of the hogs raised, but rather to an improvement in the quality and uniformity of the product.

BRUCE.

# FITTING SHOW SHEEP.

I have a large flock of pure-bred Long-wool sheep which I desire to put in show and sale shape for the autumn trade. Kindly give your views as to the best methods of fitting, and particularly as to growing forage crops for feeding

# THE FARMER'S ADVOCATE.

feed available will be red clover, followed by vetches and oats, one-half bushel of former to one of latter. Then sow cabbage seed as early as possible, same as turnips—one pound seed to acre; thin out to two feet in row; no transplanting; an early sort, and World Beater or Autumn King for late; they are the same. Sow kale same time, thin to 15 inches; then rape, then Yellow Aberdeen turnips; lastly, Swedish turnips. I ought to have mentioned mangels, but these are not fit for sheep feed, or rather not at their best until spring.

This growing of various green crops may look like puttering, as the Yankees say. Call it what one may, it is the secret of success in fitting sheep for show. 'The greater the variety of green crops, the better the chance to win, providing the stuff fitting for show are worthy of such efforts.

One time, years ago, while on a visit to my father, who then had a flock of 500 Hampshire ewes, on the chalk foundation in Hampshire, he had his lambs on two or three different varieties of green crops daily. We visited most of the noted breeders of pure flocks. Mr. Budd said : "All my show and sale rams never pass a day without sanfoin, summer or winter."

I would suggest to your correspondent, let your show sheep have lucerne offered to them daily. We can grow that when sanfoin is not a success, as far as my experience goes. One will be surprised how a bit of well-cured lucerne hay is relished as a dessert after a hearty meal of luscious rape or cabbage.

It may seem strange to most feeders that I have not mentioned grain. It is for the reason that grain, without these various green-crop foods, is as dangerous as handling dynamite. The sheep do well in the spring while green feed is available, but when the dry July and August comes, and no provision for luscious, cooling, appetite-satisfying green food, the grain only adds fire to the craving for what is not, and the sheep go back and never come again—as the shepherds explained the matter, "Oh, burned up."

To wind up this altogether too long letter, not written for your correspondent alone, but to those of your readers who are interested in showing sheep:

1. Grow lots of green feed of various kinds; the greater the variety, the greater the chance of success.

2. Do not forget to try lucerne; it will remain with you three, four, five or six years, and can be cut three times a year after first year.

3. Feeding this luscious, cooling food enables you to feed grain in the hot summer months.

4. Don't sow rape seed too early. In my experience, it is the early-sown that suffers from the aphis. I am not an entomologist, but I imagine, if at the first of the season the aphis did not find a suitable resting-place for the sole of his foot, we would not be troubled. I would advise later sowing. Spraying, while useful in the garden, cannot be successfully carried out in the field, and as the aphis works on the under side of the leaves, it is not easily reached, by spraying.

5. No crop can equal cabhage, if properly cultivated—none so safe, no bloat, or loss of ears, and, for autumn feed, worth more than any with which I am conversant. RICHARD GIBSON. Middlesex Co., Ont.

### SHEEP NOTES.

Lambs should be docked and castrated at two to three weeks old. Much loss results from neglecting these operations. Ram lambs, except pure-breds intended for breeding purposes, are a nuisance on the farm in the fall, and their selling value is much discounted. If the ewe flock has lambed, and are in good condition, all may be safely shorn now.

Yearling sheep in good condition should be shorn, unwashed, before going to grass. They thrive better in the warm spring days, and there is less loss from "tags" on the fleece. Trim the hoofs of the flock before shearing.

Trim the hoofs of the flock before shearing. This may save trouble from an outbreak of foot rot. It is well to keep on hand a small phial of powdered bluestone to apply in case of hoofill or foul in the feet.

When sheep go to grass, they should be taken in and fed hay and a little bran and oats morning and evening for a while.

Provision should be made for sowing a patch of vetches, and another of rape, to supply succulent food for the lambs when pastures get dry. Lambs will be "trumps" this year, and will pay for good care in growing them strong.

# THE FARM.

# SOUND SILO SENSE.

Editor "The Farmer's Advocate ":

I notice in your valuable paper from time to time questions asked regarding silo construction, and not long since one man asked if a silo 15 feet in diameter and 30 feet high would feed 30 cows six months. I have a silo 12 feet in diameter and 24 feet high, and it does that. I consider the silo quite essential to successful farming to-day. But while many are building some are tearing them down. Now, sir, I think it is a great mistake to make a silo 15 feet in diameter. Men who have had no experience with them cannot imagine what an amount of feed these great tubs hold. Ten, eleven or twelve feet at the outside is large enough, and make it as high as you like. With less diameter and more height your silage will both keep and come out better. If I wanted more room I would rather build two small ones than one large one, and the results would be much more satisfactory. I speak a truism when I say that many have become tired of the silo simply because they built cheap, poorly-constructed silos, with too great a capacity for the stock kept, and therefore had a lot of spoiled silage to throw out every year. My advice to those who contemplate building silos is : first know that you can grow corn successfully, then build well regardless of first cost; not too large in diameter, and as high as you like. Build them round, either of staves or cement, and the only regret you will have is that you did not have one sooner. GAVIN BARBOUR. Waterloo Co., Ont.



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iring ihese uded osses ires. ings ght. was these sheep. Rape throughout the County of Kent has of late years been affected by aphis (small green lice). Can you recommend any substitute for rape that would not be affected by this pest? I thought of trying thousand-headed kale. Can anything be done to prevent the destruction of rape by the aphis? SUBSCRIBER.

I cannot, perhaps, give your subscriber all the information he requires, but what I write may be of use to him later. In the first place, I assume that he had made up his mind last fall that he intended showing, that he has had his flock in proper shape for the show-ring up to this date. He knows what competition he has to meet. He has done all he thinks necessary to win prizes, except making provision for the summer feeding of green food.

I cannot advise, knowing nothing of the condition of the flock at this time or the feed available. If you will allow me, Mr. Editor, a little latitude, I feel like putting myself in the position as asked for. When I left Chicago or New York with the winning wethers, "What were they fed upon, and how did you win ?" might have been asked. This is no secret, as I have often put myself on record through the press of Canada and the United States. But our people look for some mysterious cattle food or patent medicine wherewith to make winners. Don't do any such insane act." When medicine is necessary, let some educated veterinary surgeon advise.

I presume, from the inquiry, your correspondent has everything up-to-date, to his satisfaction. No doubt he has mangels to last over June: lucerne (alfalfa) hay, also, to same date. If he has lucerne, he will be able to cut it before June. For some years we have commenced cutting May 18th — If he has none of these, the earliest green



King Thomas (imp.) (12625).

Clydesdale stallion; brown; foaled 1902. Imported and owned by T. J. Berry, Hensall, Ont. Sire Prince, Thomas, by Sir Thomas, by Prince of Wales 673.

# ROTATION FOR CORN SMUT

. Editor " The Farmer's Advocate "

748

Regarding increase of smut in corn during recent seasons, I beg to say that while we have observed a little smut in our corn here each year, we have not considered that it has been on the increase. Neither in the experimental department, where corn has been grown for seed, nor on the College farm, where it has been grown for silage only, has it been necessary to take extra measures in the way of prevention. Information from the States is to the effect that rotation of crops is one of the best factors in the way of prevention known. Perhaps where rotation of crops has not been consistently practiced the presence of smut may be more noticeable than it has been here.

The reason why rotation is a useful remedy is found in the fact that the corn smut spores winter over in the ground, and only to a very slight extent on the grains of corn. The spores do not spread widely, and if the corn does not appear on the same ground for a period of three or four years, the probability is that the evil will be much lessened. This same fact will indicate that a treatment of the seed, as in the case of oats or wheat, viz., hot-water treatment or the formalin treatment, will not be effective for corn smut. These remedies are not advised by our College here, nor by stations in the States. The only remedies effective so far as I know are : first, the one mentioned, namely, rotation of crops; and, second, gathering the corn smut ears two or three times during the season and destroying them. This latter might be practicable in the case of small growers, but would hardly be possible on large farms. We think that the former remedy will be sufficient to prevent an increase of the smut. Ontario Agricultural College. H. S. ARKELL.

# CORNER POSTS.

Editor "The Farmer's Advocate"

I notice in "The Farmer's Advocate" of April 11th J. M. was wanting to know how to set corner posts, and his question is answered by illustration and description, but I would have objections to that method, especially when I think we have a far Letter plan. My objections are that that brace rod, if on a corner, obstructs the highway, and someone may get hurt some dark night, and the trouble may lead to a lawsuit; and also those end posts generally serve as gate posts, so that that brace rod would take up gateway. I will describe how we have set our end posts for three years, and have never had one to lift yet. Some stretches of fence are 80 rods long, 7 and 8 strands of No. 9 coiled wire, and stretched with horses and tackle. Dig a hole about 2 x 4 feet, 4 feet deep, or large enough for a man to get down in and throw out dirt; then take good-sized post, and 6 inches from lower end, on opposite sides of post; cut across post with saw 2 inches deep and 4 inches apart, and chisel out; now put a piece of 2 x 4 scantling in grooves and spike. Put post in hole, and after filling to top of scantlings, lay some boards on top and crosswise, making a platform, then fill in rest of earth, and you will have a post that will not lift, because it cannot lift all that dirt out. Caution : Do not rely on just spiking scantlings on post, for they will draw off, whereas by setting them in posts the end would have to draw off end post, which it will never do.

Welland Co., Ont. W. W. MARSHAL

# TO GUARD AGAINST FODDER SHORTAGE. Editor "The Farmer's Advocate " :

I trust your readers will pardon me for offering advice which may or may not be neededthat is, to preserve all coarse fodder that may not be needed this spring until we can better judge of the coming barvest. I see that both the American and Canadian meteorological officers forecast a dry, or much drier year than the preceding one. Our own opinion is that we shall be liable to late frosts. Should this prove so, it will mean short straw and a light hay crop. Taking into consideration the very great increase in the number of live stock, and the small amount of hay in stock, a shortage of fodder would be almost a calamity. We have already passed through two fodder famines in our farming experience, and we have learned since then never to waste feedstuffs until we see what the harvest prospects are likely to be. Our usual practice is to clean out all our manure yards in June, then cover them deeply with any spare straw or chaff we may have left. The cattle soon trample it down, and the yards are kept clean through the summer. This leads us to think of the corn crop as the farmer's stand-by in all seasons. In dry seasons, root crops are more or less of a failure, while corn, when once started, can laugh at dry weather and rejoice in the heat that shrivels other crops. To farmers on all kinds of soils, we repeat your sound advice, "Grow Corn." We have been growing it for upwards of thirty years, and never have had a failure. Some years it does better than others, but is always a paying crop. We hope to live to see the time when (to slightly alter Longfellow's lines)

> All around the happy homesteads Stand the cornfields, green and shining, Wave their green plumes in the sunshine, Wave their soft and silken tresses Filling all the land with plenty.'

If you do not like the corn crop, grow it and you will learn to like it. When once you learn to properly cultivate it, you will find it no more trouble than any other crop. The cultivation is mostly done between spring seeding and haying, the harvesting after your fall-wheat seeding and before root harvest and fall plowing. It can be grown in hills or drills, can be harvested by machinery or hand, stored in silo, or cured in shock and stored in barn green or dried, or, made into silage, it is good, wholesome stock food, and the cheapest that can be raised. Grown for the grain alone, it is a very valuable crop. By growing the flint varieties, an average of 50 bushels may be obtained, which makes excellent feed for any kind of stock.

Simcoe Co., Ont. FRED FOYSTON

### PRACTICAL HELP

I was much pleased with index of articles for reference you sent out. The discussions on different topics have been very interesting and valuable to me, especially the cultivating of corn and sowing of clover seed. You have done well on King Corn and Queen Alfalfa. What Prof. Dean had to say about milking machines was very in wish, we had more men (and I might say, agricultural papers) like Prof. Dean and "The Farmer's Advocate. I am very thankful to you for the information you have given your subscribers on barns and barnbuilding. B. A. WILSON Missisquoi, P. Q.

# DO SUGAR BEETS PAY ?

# Editor "The Farmer's Advocate "

I will give you my experience in growing  $_{\rm Sugar}$ I had two acres last year. I manured the beets. ground, plowed and harrowed twice the previous fall, plowed and worked again in the spring; sowed heets early, had a good stand; plowed them four times, and scuffled every week in the hoeing season. Was to load the beets whenever we were ready. I got mine up early, but could not get shipping instructions. Finally I had to pit them, and never got shipping instructions until about Christmas. We loaded with four teams, and weighed every load (on scales which are inspected by Government inspector), and cleaned our sleighs out every time, and there was in the neighborhood of 2,500 lbs, difference in our weight and the weight at the factory. Mine tested 13.2, while one of my neighbors, who had a crop apparently no better than mine, who got them away early, tested 17. The amount taken off for dirt was about 71 tons. If you had them covered with dirt you could not possibly get that much on them. I got \$49.00 for the two acres; charged for seed, \$5.40. We were to get paid for pulp on February 1st, but have not heard from the factory yet. If there is money in that, I think I will try some other way of making money.

Regarding the experience of others in the neighborhood : It was all right in the case of those who got their beets away in time, but those who could not get cars was something similar to mine. Simcoe Co., Ont.

H. C. BLACK

# MORE USES FOR THE WEEDER.

Editor "The Farmer's Advocate" :

In a recent number of your valuable paper I read J. E. M.'s article on the uses he makes of a weeder. I think were the uses to which it may be put a little more generally known, few farmers would be content to get along without one.

The weeder is about the first implement for which 1 find use in the spring. A Farmers' Institute lecturer, speaking of clover, remarked that farmers were more careless regarding the covering of clover seed than with grain. Does it not seem strange that a man should go to so much trouble to prepare seed-bed for wheat, barley or oats, the seed of which costs little over a cent a pound, and then throw away good clover seed, at eleven dollars per bushel, on a field, and let it take its chance, as so many do, when so little trouble almost ensures a catch. Some farmers, it is true, put harrows over the fall wheat after seeding with clover, but I think it the proper method to have a boy take one horse and the weeder; he can cover ten to fifteen acres in one day, shaking the seed down slightly, and not covering the wheat as harrows do, but working the ground finer. The cultivation is really beneficial to the wheat. Of course we make it a rule to sow the clover seed just so soon as the ground gets dry enough that the weeder will work properly. One of my neighbors seeded down his wheat last spring, put the weeder over half, then got too busy, letting the other half go. He has a nice catch of clover where the weeder covered the ground, while the other half is a total failure.

Then again, we find the weeder a great help on our potatoes while the plants are small. Although breaking a few of the plants, it lessens the after labor so much that I think it a great advantage.

Although raising twenty to forty acres of corn annually, we are not fortunate enough to own a horse

[Note.-A plan similar to the above was illustrated in "The Farmer's Advocate" about a year ago, but condemned afterwards by a correspondent, who argued, with some reason, we believe, that a mortise in the lower end of the post affords a place for rot to set in. -Editor.]

planter, and, consequently, either drill our corn or plant with the old-fashioned hand planter, and we find the weeder to be a much nicer implement to level the field, after planting, than are the harrows. Anyone who has used a weeder on corn land knows its advantages; how it kills all small weeds and stirs and mulches the soil right in the hill better than a man could do it with a hoe



Artist, C. A. To

ee Pairs of Twin Yearling Lincoln Ewes. .d A 10 M Gugan Glenora Stock Farm, Rodney, Ont.

pecting having to start shortly, when we think we cannot go through the corn with the cultivator again, we sow rape, turnips, or the mixture over the field ; then, if the corn be not so tall that the top of the weeder will break the stocks, we put it through again to cover the seed, and cultivate the corn, right among the hills, for the last time. By this method we never need use a hoe at all, except to cut deep-rooted weeds, such as Canadian thistie, dock, etc., and have our fields not only free from weeds, but a short time after the corn is harvested, a green mat of the most succulent feed for stock, and at very small+xpense when our pasture

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# THE FARMER'S ADVOCATE.

has pretty nearly given out. I think J. E. M. and to harrow thoroughly each evening the land land may be cultivated both ways during the others will find it greatly to their own advantage to plowed that day. experiment further along this line, as I consider the weeder almost indispensable. E. C. M. Kent Co., Ont.

## FORESTRY AND CITIZENSHIP

A people without children would face a hopeless future; a country without trees is almost as A true forest is not merely a storehopeless. house full of wood, but, as it were, a factory of wood, and at the same time a reservoir of water. When you help to preserve our forests or plant new ones, you are acting the part of good citi-The value of forestry deserves, therefore, zens. to be taught in the schools. If Arbor-day exercises help you to realize what benefits each one receives from the forests, and how, by your assistance, these benefits may continue, they may serve a good end.-Theodore Roosevelt.

## CULTIVATION OF CORN.

A study of the best methods of cultivation for corn has been made by almost every experiment station throughout the corn belt, but the soils of the different States, and different sections of the States, are so different in type and character, and are so influenced by climatic conditions, that no definite rules can be made that cover all cases. However, a few general principles have been worked out, and have been found to be of value, where practiced under average conditions

Recent experiments in this State (Indiana) have proven that cultivation means bushels of corn, and that the corn-grower can do much to control the yield in the preparation of the seedbed and the cultivation of the growing crop.

### CONSERVATION OF SOIL MOISTURE

One of the secrets of successful corn-growing is the early cultivation of land for the purpose of conserving the soil moisture. Careful experiments made by King, at the Wisconsin Experiment Station, and German investigators, show that to produce one ton of dry matter in the corn crop about 400 tons of water are required. This means that, for a good average crop of corn, an enormous amount of water is necessary. A study of the rainfall records for a number of years shows that the amount of rainfall during the growing season-May 10 to September 15-does not begin to supply the needs of the crop. If this be true, steps should be taken to hold in the soil as large an amount as possible of the fall, winter and spring rains. This can be done, in part, by disking the land in the spring as soon as a team can go on the soil and the danger of On land which has been fallpuddling is past. plowed, this cultivation will break up the crust and form a mulch, which will conserve the moisture and prevent the soil baking, in this way materially assisting in the preparation of the seedbed.

### FALL PLOWING.

Fall plowing cannot be recommended for all soils or all localities, but should be practiced more generally than at present. Fall plowing is preferable to spring plowing because it can be done at a time when the rush of work is not so great as in the spring. Fall plowing enables one to combat grub worms, cutworms, corn-root worms, corn-root lice, and other insects injurious corn-root The fall plowing opens up the soil and to corn. allows the moisture to enter more readily. It also allows earlier cultivation and insures earlier planting than spring plowing. Experiments have also shown that for a period of years fall-plowed land has yielded more corn than similar land spring-plowed.

EARLY PREPARATION OF THE SEED-BED. The early preparation and frequent stirring of the soil before planting time is recommended. In this way a loose mulch is maintained, the ground is prevented from baking, and many insects, as the corn-root louse, are largely controlled. Ground that is plowed early in the season, and allowed to stand untouched until a few days before

# TIME OF PLANTING CORN.

ditions, the best results.

planting time, does not give, under average con-

Since the date of planting varies with the season, the soil and the location, no definite time can be given. The results of experiments carried

growing season.

In deep soils, such as are found in the Mississippi Valley, the corn may be listed. This consists in throwing out a deep furrow and planting the corn in the bottom of the furrow. This practice is not to be recommended for shallow or stiffclay soils.

### CULTIVATION.

It has been found advisable to stir the ground once, and sometimes twice, between the time corn, has been planted and the time it comes up. For this work, the spike-tooth harrow is generally used, but on light soils or soils that are loose and easily worked the weeder may be used. The practice of harrowing corn after it is up, followed by many good corn-growers, is opposed by some,



Usual Method of Breaking Corn Ground.

For spring plowing this is objectionable, because of the heavy growth of organic matter which will lay between the subsoil and furrow-slice, and in this way interfere with the capillary move-ment of water. Disking before plowing will improve this condition. The following of the plow each day with the harrow will assist in breaking down the lumps and clods.

on at this Station (Purdue) lead us to believe for the reason that some of the corn is destroyed. this district is from May 1st to May 10th. Corn should, of course, not be planted in cold or wet ground simply because the calendar shows the usual time for planting has arrived, but, by good drainage, fall plowing, early cultivation, etc., every farmer should strive to have his land in shape at the proper time for planting.

### PLANTING.

The method of planting corn will depend upon the character of the soil and the preparation of the seed-bed.

Land that is rough or very rolling; land that is well prepared previous to planting, free of weeds, and easily tilled, can be drilled to good advantage.

Soils that bake easily, and require much cultivation after planting; soils that have an abundance of weeds, or have had the seed-bed poorly

that, one year with another, the early-planted It is true that a few plants will be pulled corn gives the largest yield. Early planting for out or broken, but the results from harrowing, under average conditions, are such that the practice is to be recommended.

> When the corn is high enough to row nicely, the cultivator should be started, and cultivators with narrow shovels that throw the soil but very little should be used. Fenders are usually found desirable to prevent the covering of the small plants.

> In this connection comes up the question of deep versus shallow cultivation. In recent experiments it has been found advisable to cultivate to a good depth (21 to 31 inches) the first and second cultivation, shallower cultivation being given in the later cultivations. This practice is followed for the reason that in the early season the root system of the corn plant is not very extensive, and will not be injured to any extent by deep cultivation; while later in the summer, when

corn or d we find level the Anyone ts advanstirs and a man h a hoe. are exto start we think through he cultiwe sow or th<del>e</del> he field; n be not e top of 11 break put it to cover cultivate among the last method method; se a hoe to cut ls, such thistle, have our ree from ort time is harmat of ent feed **a** i d **a** l l + xpasture

## DISKING BEFORE PLOWING.

Some work done in the way of disking land to be spring-plowed, before breaking, has given marked results in favor of this operation. disking of the ground breaks the crust that may have formed during the winter, cuts up and incorporates with the soil any stubble or other organic matter that is on the surface, in this way aiding the capillary movement of the water. Where grass, straw, weeds or cornstalks are plowed under in the spring, we often find this intervening layer of organic matter is responsible for the failure of corn plants to secure sufficient moisture in periods of light rainfall or drouth.

By disking the surface soil before and after plowing, it is found that the soil is pulverized the entire depth of the furrow slice, which furnishes a larger and better-prepared field in which the corn roots may feed.

### FOLLOW THE PLOW WITH THE HARROW.

In many soils, spring-plowed, lumps of greater or smaller size will appear. If these are allowed dry and bake in the wind and sun, a very undisfactory seed-bed is oftentimes obtained at lanting time. Much can be done to break these mps or clods and form a mulch which will aid conserving the moisture, if the plow is foland with the harrow. A satisfactory plan is

prepared, should be planted in hills, so that the the roots begin to occupy the larger share of the



# Result of Disking Corn Ground Before Plowing.

Plot 1 was plowed in the usual way and given ordinary cultivation. The stalks were small and weak. Plot 2 was disked before plowing, which was done at the same time as Plot 1, and was given similar cultivatio . The stalks were large and strong, and the yield of corn was much above Plot 1.

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# THE FARMER'S ADVOCATE.

ground, shallow cultivation is given, so as to prevent, as far as possible, injury to the roots.

One fault of the average corn-grower is that he ceases cultivating his corn too early in the average season. If the season is dry and the condition of the soil demands it, shallow cultivation should be continued, even though the corn is tasseling. This later cultivation is best done with a one-horse, A-shaped cultivator, with teeth similar to that of a spike-tooth harrow, or the dragging of a mower wheel over the soil will do much to preserve the mulch. Late cultivation, where practiced, during the last two or three years, has made many bushels of corn.

G. I. CHRISTIE. Purdue University Experiment Station, Ind.

# A COW STALL WITHOUT STANCHIONS OR CHAINS.

Most of our readers will remember seeing in " The Farmer's Advocate," of Sept. 20th, 1906, a barn plan with description taken from a recent bulletin prepared by F. M. Logan, for distribution by the British Columbia Department of Agriculture. This bulletin contained some striking new ideas in barn construction, the two chief features being that the stables were frame annexes of the main barn, while the latter was distinguished by its arch-rib balloon frame. The bulletin also included an illustrated description of a cow stall, which was designed to do away with neck ties and stanchions, the cow being held in place by a gate on each side of her, and a chain stretched across behind. This cow stall



Effect of Cultivation of Corn Crop.

Plot 1 received ordinarily good cultivation, and yielded 64 bushels of corn per acre. Plot 2 received no cultivation, and yielded 4 bushels of corn per acre.

# THE DAIRY.

# IMPORTANCE OF SHAPE IN UDDERS.

We have frequently had occasion to lay emphasis upon the importance of paying attention to the shape of the udder in cows. As all breeders of experience are aware, there are udders and udders, the best of all being the deep, square vessel, whose fore part rises well up under the abdomen, and whose point of attachment behind is also very high up between the quarters. The squarer and flatter the bottom or floor of the udder is, the better, as a rule, will the cow prove as a milker. And, conversely, the narrower and more pointed the lower aspect of the udder is-and, therefore, the more closely together the teats are placed-the poorer will be the milk-yielding capacity of the animal possessing it. The symmetry or shape of the udder is another point of considerable importance in this connection. In experiments which he conducted a few

was not described or illustrated in our paper, because we confess a degree of dubiousness concerning the practical utility of these ingenious cow-stall improvements. A great many have been introduced only to be discarded eventually. However, we were assured that Mr. A. C. Wells, one of the leading dairymen of British Columbia, and an unusually level-headed as well as enterprising farmer, has a stall after which Mr. Logan's was modelled, and which it very much resembles. Some weeks ago we were favored with a contribution from Mr. Wells, in which he described briefly and favorably his cow stall. We at once wrote him asking for a sketch to illustrate it, and meantime held his article, which appears in this issue, together with four cuts. On account of the similarity between his stall and Mr. Logan's, we decided it would be an opportune occasion to publish also a cut of Mr. Logan's stall, which is here given, along with the subjoined description, quoted from the above bulletin :

dirty the platform on which she stands; at the same time, this arrangement gives her more freedom than it would be possible for her to have if she were tied by the neck or head. A further argument in favor of this method is that it prevents a cow from slipping into the gutter when reaching for feed, or when turned out of the stable, which often proves serious, as abortion has doubtless been quite often caused in this

"When you wish to let a cow out of her stall, you open the gate at the side, which, by the way, serves as a division, giving each cow a separate stall. turns and comes out through the stall next to hers, The cow which permits her to step across the gutter instead of into it, as she would do if she were backed out, as is usually done. Before the cows are let into the stable again the gates are closed and fastened, and the chains are unfastened and hooked up at one side. This allows each cow to go into her own stall, after which all that is necessary to make them secure is to walk along behind them and again snap your chains or ropes. Cows tied in this way can be fastened and unfastened in onequarter of the time required to do this if tied by the

"When you desire to go in beside a cow for the purpose of milking her, you simply open the gate against the cow in the next stall, and the chain being fastened to the gate prevents this cow from backing out of her stall. By being able to swing this partition over against the next cow you have a good deal more space than you would have if the division between each stall were stationary. As a cow is always milked from the right side, this gate must swing to suit.

" I could have designed a fastening for this gate which would have been nearer automatic than the one shown, but it is difficult to have an arrangement which would be automatic and at the same time absolutely secure. This fastening, while not automatic, is not unhandy, and it would be about impossible for an animal to get a gate open if fastened in this way. are certainly not expensive, as any blacksmith can make them by simply cutting up a bar of half-inch iron, and bending one end in the form of a loop, which serves as a handle, prevents the rod from dropping through the staples, and makes a place to which a string or small chain may be attached for hanging it up. This string can be fastened to a staple, which should be driven in the edge of the upright stud, over the gutter, so the bolt will always hang where it will not interfere with closing the gate, and at the same time be in a convenient place when wanted. Two large-sized wire staples with this bolt makes the fastening complete.

"These stalls should be about 3 feet 6 inches from center to center for the ordinary sized cows. Some make them only 3 feet wide, which does fairly well for small cows, but is too narrow for large ones. It looks better in a stable to have the cows graded according to size rather than to have them indiscriminately mixed. If this were done, the width of the stalls could be made to suit different sized cows. If you should find that a cow is able to turn around in her stall, after the gate is fastened, you can very easily prevent her doing so by making a sort of rack to put on the side of the gate. This can be done by using pieces 1 by 3 inches to put on edge, up and down the gate, and then nailing slats on horizontally, thus making the stall 4 inches narrower than it was before, which will no doubt have the desired effect. This can he put on with screws or wire hooks and removed easily when no longer needed.

You will, of course, have cows of different sizes, and in order to make them stand so all the droppings will fall in the gutter, I have devised a movable feeder as

# FOUNDED 1866

years ago, a well-known dairy expert found that in a number of cows which had the front part of the udder much smaller than the hinder or the rear part, over one-half as much more milk was obtained from the latter portion of the udder than from the former. The better developed the udder is -- in other words, the better balanced its fore and hind quarters-the better the milker the cow possessing it will prove.

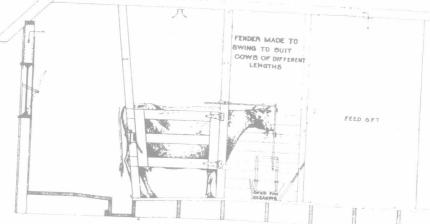
# COW - TESTING ASSOCIATIONS.

The following are reports of the results of cow testing under the associations named :

Shearer, Ont., for the 30 days ending 30th January, 1907: Herd average-Daily yield, 828 lbs.; test, 3.2 lbs. fat, 27.1. For 30 days ending 28th February c Herd average-Milk, 816 lbs.; test, 3.3; fat, 27.4 lbs. For 30 days ending 28th March : Herd average-Milk, 794 lbs.; test, 3.0; fat, 24.5 lbs.

Keene, Ont., for 30 days ending 28th March, 1907 No. of cows tested, 21; average yield of milk, 812 lbs.; average test, 3.2; average yield of fat, 26.5 lbs.

Cowansville, Que., for 30 days ending 25th January, 1907: No. of cows tested, 71; average yield of milk, 365 lbs.; average test, 4.8; average yield of fat, 17.6 lbs. Highest herd average-Milk, 526 lbs.; test, 5.3; fat, 28.2. Highest individual yield-Milk, 1,115 Ibs. Highest individual test, 5.3; lowest milk yield, 40 lbs.; lowest test, 4.8. For 30 days ending 28th February: No. of cows tested, 53; average yield of milk, 481 lbs.; average test, 4.6; average yield of fat, 22.3 lbs. For 30 days ending 27th March : No. of cows tested, 56; average yield of milk, 583 lbs.; average test, 4.2; average yield of fat, 24.6 lbs.



Side elevation of Logan's sanitary cow stall

# THE LOGAN SANITARY COW STALL

 $^{\prime\prime}$  A cow tied by the neck with a chain, or with the old-fashioned stanchion, has the privilege of stepping forwards and backwards for a distance of two or three feet. This liberty permits her to step back into the gutter, and after getting her feet covered with manure, she will step up on to the platform, where she de posits this dirt, and then lies down in it, with the result that some (far too much) finds its way into the milk pail. The device shown here prevents this entirely. With a rope or chain stretched across the stall just back of the cow it is impossible for her to step back into the gutter, while the fender in front prevents her from going so far forward that she is lawly to

shown in the figure. As a cow, in lying down, will lower her front part first, she will always lie far enough back in the stall to keep the platform clean, so if is only when she is standing that we need to regulate her position. This fender will compel the cow to stand in the proper position, and can be adjusted to suit different lengths of animals, by merely taking out the wedges which hold the braces of the fender at a certain notch, and sliding them to the notch desired.

"The manger of the ordinary stable in Canada is not only a disgrace to the different stockmen, but is an

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actual menace to the health of the animals. Most of these stables have a manger for each animal, which is desirable, for if there are no divisions the best fighters will get more than their share of the feed, and some will not get enough. The objection, however, to individual mangers is that there are four corners to collect rubbish and dirt, and these are usually very difficult to clean, with the result that the manger is always dirty, and in ordinary cases decidedly unfit for stock to cat out of. To do away with the four objectionable corners in each manger, I have devised a plan whereby the lower board in the division can be made to lift up. about six inches, say, so when you wish to clean the mangers you would walk along the passage and hook

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at the same dom than it were tied by n favor of om slipping when turned serious, **as** used in this

r stall, you y, serves as The cow kt to hers, instead of out, as is the stable the chains This allows h all that along bepes. Cows ed in oneed by the

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up all these boards, then take a broom and sweep the oats, ground, 75 pounds-the whole well mixed at end. As there would be no corners to dig out, this would require but a few minutes, and you would then have no difficulty in keeping the mangers thoroughly clean. The hay would be fed from the passageway in age, so that it will be all eaten together. We front, and the slats on the fender should be far enough apart to allow the cow to draw the hay through, but at the same time prevent her from throwing it out of the manger or getting it under her feet. Pulped roots, ensilage, grain, etc., would, of course, be put in from the passage in front, while the cow can get it at the bottom of the manger from the other side of the fender The mangers could, of course, be made of cement, and the partitions in them of thin steel or wood, which would make them still more sanitary and easier to keep clean

"The question might arise that it would not be wise to sweep the dirt from one manger to another, on account of the danger of spreading contagious or infectious diseases. Authorities on this subject, however, claim that these diseases are spread by the germs becoming dry and floating in the air, rather than by the animals coming in contact with each other, so I think there would be little or no danger if this style of manger were adopted.

"A light wire link chain, with a snap on one end, would make the cleanest and best arrangement to put across each stall to keep the cow from backing out. These chains can be purchased for about 25 cents each, and should last a lifetime. The staple on the gate to which this chain is attached should be in a plate and put on with screws or bolts, as it would be liable to split the board or pull out if simply driven into the wood. Some hardware dealers are communicating with an eastern firm in regard to having these specially made, so anyone requiring them will be able to procure them at very moderate rates."

# A BRITISH COLUMBIA DAIRY FARM

Editor "The Farmer's Advocate":

As you get but few letters from B. C. farmers, I thought it might not be amiss to send a few lines concerning our dairy farm of 300 acres, in the Chilliwack Valley. We milk between 50 and 60 cows the whole year; about the same in winter as in summer. In order to keep up the

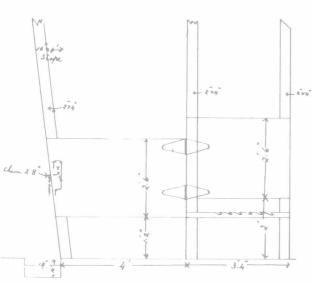


Fig. 1-Side view of Mr. Wells' cow stall.

# THE FARMER'S ADVOCATE.

dirt from one manger to another till you come to the least 12 hours before using. The heavy milkers are fed from 5 to 10 pounds each of ground oats have been trying for 15 years to arrange the cow stalls so that we could keep the cows clean and free from manure, which so much disfigures the

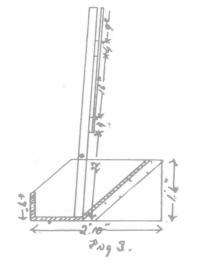
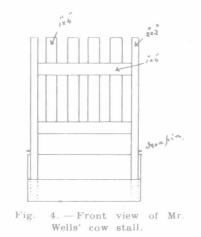


Fig. 3-Cross-section of manger

cow, and makes it so hard to get clean milk. We have at last succeeded. We put in new stalls in winter of 1905-6. Since then we have had almost perfect success. If the cow in her stall is properly managed, it is impossible for her to get herself dirty. Each cow has a stall. The manger is movable, so that whether the cow is long or short, the stall is made the right length, so that the hind feet are near the gutter, and to



prevent her backing into the gutter a small rope or chain is hooked across behind, just above her The gutter is ten inches deep and twelve inches wide; the top is half an inch below the level of the floor; the floor slopes a little to the gutter so that liquid will run to gutter. The cow has perfect liberty. Not being tied, she can stand or lie at will without soiling herself.

getting my herd where they are giving a better flow of milk, and a good-testing herd. In 1904 I got an average of 3,000 pounds of milk per cow per annum; in 1905, 4,000 pounds; in 1906, 4,800 pounds; and still a good chance to gain. This was done simply by weeding out my poor cows. I am in hopes to soon reach the 8,500 mark, with 300 pounds butter-fat. I think, by using the spring balance, the Babcock test, saving the heifer calves from my best milking and testing cows, and using a pure-bred sire from a good milking strain, I can soon reach the mark I am aiming for. L. S. COLT. Stanstead Co., Que.

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# TEN - COWS RECORD.

Editor "The Farmer's Advocate ":

Hartman Snider, who lives about one mile from Ernesttown Station, G. T. R., in the County of Lennox, drew \$695.95 from Farmer's Friend Cheese Factory for the product of ten cows, this being an average of \$69.591 each, besides keeping the Sunday morning's milk for butter part of the The factory started April 11th, 1906, season. and closed December 1st. His cows are grade Holsteins. This does not count calves or spilt milk. HARVEY LUCAS. milk.

Lennox Co., Ont.

# POULTRY.

# RAISING TURKEYS.

### ELEMENTAL INSTRUCTIONS.

A Huron County subscriber asks us to give a few instructions on the raising and feeding of This subject was admirably young turkeys. covered in a series of three articles by W. J. Bell, of Simcoe, Ont., in "The Farmer's Advocate" of March 15th, March 22nd and April 5th, 1906. However, for the benefit of new readers, we shall undertake to summarize Mr. 'Bell's points, and will also be pleased to hear from anyone who may find time to contribute a helpful letter, based upon personal experience.

We all know that turkeys require ample range. It is well not to keep more than one bird for each two acres of land in the farm. Turkeys are great foragers, and will glean a good part of their living from waste grains and grasshoppers in the fields, if given a fair chance. Overstocking infields, if given a fair chance. creases the amount of extra feed necessary, saturates the premises with some chemical or bacteriological material or other that militates against their thrift and greatly increases the chances of loss by specific germ diseases, such as blackhead The more fowls, or, for that matter, and roup. the more stock of any kind, kept together, the greater the chance of introducing diseases, and the greater the damage sustained if they are intro-This is the greatest obstacle to the sucduced. cess of special poultry-farming, and it applies more to turkeys than to any other kind of poul-

Needs in the way of shelter are easily supplied. An airy building is sufficient for the worst Close buildings are injurious to health weather. and thrift. The ordinary henhouse is too warm and stuffy. Basement barns are especially to be avoided.

The age of breeding birds is unimportant, but good strong, healthy, well-matured females of mejum size mated to a good-sized, long, vigorous male, will prove the most prolific mating, and on an average five females will be required to make sure of fifty poults. Some undertake successfully to break up the hen from hatching after laying her first clutch of eggs, set these under a hen, and have her lay another lot; but the plan is open to objections. A turkey is the best mother for her own poults, and an early-hatched turkey is worth much more than a late one. The latter are the first to contract disease, and often introduce it into a flock that would otherwise remain healthy. The breeders should be in only moderate flesh, and to prevent the females becoming too fat, grain should be withheld from them towards spring. The male should have a good feed of oats or wheat each day. In selecting breeders, give the preference to those long in body and short in leg, as they do not show such a prominent breastbone when dressed as do the deep, short-bodied specimens. Regarding the matter of inbreeding, Mr. Bell claims that in the beginning of his turkey-raising experience he selected his birds for many years, and bred them irrespective of relationship. He found the size was actually increased, but admits that deformities, such as crooked toes, wry tails and crooked breasts, were becoming common. To obviate this evil, he now buys an occasional female from a good flock and mates her to one of his best males. From the produce, he takes the best female and mates the following season to her From this progeny he selects the best sire. male to mate with his original females. Mr. Bell claims that the untoward effects of inbreeding come from selecting the worst specimens as breeders and sending the best to market. For our

number and secure good cows, we raise all the heifer calves. The Babcock test has been a great help in weeding out the poor cows, which we send In the spring cows are on the to the butcher. grass by first of May, and are fed a little clover hay and ground oats until the grass becomes firm. The pastures are usually green until November, and cows get nothing but grass. Sometimes, however, in the months of July and August, pas-

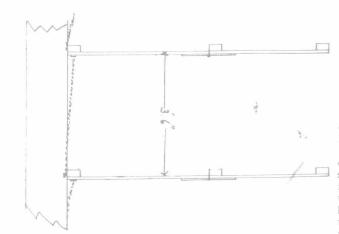


Fig. 2-Ground-floor plan of Mr. Wells' cow stall.

tures become short, then the cows get newly-cut dover night and morning in the stable while they are being milked. Our winter feed is : Ensilage, 500 pounds; cut straw or clover, 100 pounds; pulped mangels, 300 pounds; bran, 75 pounds;

ALLAN C. WELLS.

### AN AMBITIOUS DAIRYMAN.

Editor "The Farmer's Advocate ":

I have been keeping individual milk records for something like two years. It takes me one minute per day per cow to weigh her milk and set down the weight. I keep a spring balance and a sheet with each cow's name or number directly back of my cows. I started this record to ascertain, if possible, which cows were paying me a profit and which were not. I also have a four-bottle Babcock tester, and test my herd once a month; it takes four minutes per month for four cows, and a definite knowledge may be had of which cow really pays. I have learned in these two years that the cows I should have called very good ones before, are fit only for the butcher

I think, if a man will begin to weigh each cow's milk morning and night, and see what a small amount of time it takes, he will soon get interested in each cow, will feed better, take better care of his herd, and, therefore, receive a larger income. I will here give an instance of two of my cows. One was a grade Shorthorn, of which I was proud, the other a small grade Ayrshire. The Shorthorn would eat twice as much as the Ayrshire (this was when I began my records). She was giving 35 pounds per day; her test was 02.3. The Ayrshire was giving 25 pounds per day; test, 04.6. The Shorthorn would go dry four months out of twelve, the Ayrshire one and a half out of twelve. Now I am

own part, we cannot help looking askance at the idea of such close breeding. No doubt an intelligent, capable breeder, who feeds well and takes good care of his flock, may inbreed to some extent with impunity. It was the selection, care, feeding and general management that accounted for the increase of size in his birds, but Nature raised her protest after all, in the form of increasing tendency to deformity, and had not a change of practice been resorted to, we have no doubt other unfortunate results, such as lack of constitution and barrenness would have resulted in course of time. The turkey fancier may be driven to breed closer than otherwise desirable in order to propagate the results of his selection for type and points, but to the commercial grower of market poultry, our advice is not to inbreed more than can reasonably be helped. We suspect that many a successful poultryman would be still more successful, from a utility point of view, if he inbred less.

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# LAYING AND HATCHING.

Boxes so constructed that young turkeys cannot get out of them should be fixed in near-by fence corners and outbuildings early in spring, even the last of March, as the hen will be on the lookout for a nest some time before laying. Chaffy straw makes good nesting, but should be renewed before the turkey is set. Gather each egg as laid, and keep in bran in a cool room, turning it at least once a week. When removing an egg from the nest, it is well to leave a hen's egg instead. This is cheating the old turkey, of course, but so long as she doesn't know it, who cares? the turkey is unquestionably broody, give her the When eggs-never more than 20-and dust the nest thoroughly with fresh insect powder. Make the nest fairly flat, otherwise they will all crowd toward the center and some may be broken. If she is liable to be bothered by dogs or skunks, close her on the nest at night. Make sure that she can find water when she comes off. About three days before the four weeks are up, shake insect powder freely over the hen on the nest. A start free of lice is an important point in turkey-raising. Mr. Bell says he has never had to grease a young poult for lice, and he gives the credit to the prenatal application of insect, powder. If a young bird should become lousy, use insect powder in preference to grease. If a coop that has been used the previous season is to shelter the brood, whitewash it thoroughly at the time of dusting the hen, so that it may be dry when required.

[Note.-Having carried the reader through the preliminary stages of the business, we shall leave him to digest the above, reserving the balance of the article "to be continued in our next."]

From East Middlesex. Ont., comes the report of a precocious pullet, which began productive enterprise at four months of age, laid about three dozen eggs, and then wanted to sit. From seven eggs she hatched as many chicks, and is still on the sunny side of six months. Her owner wonders whether any Professor's fowls can beat this record.

III.

neral appearance

6. Bechtel's double-flowering crab, in bloom\_\_\_\_ about first of June, and lasts two weeks.

Spircea Van Houteii, in bloom about third week in June, and lasts about two weeks.

8. Viburnum opulus sterilis, or snowball, in bloom the first week of June, and lasts over two

9. Lonicera Tartarica, or bush honeysuckle, in bloom the first week of June, and lasts about a

10. Weigelia rosea, in bloom the first weeks of June, and lasts nearly three weeks.

11. Philadelphus, or mock orange, of several varieties, in bloom about 15th of June, and lasts from two to three weeks.



Shaded with Maples and Adorned with Vines and Climbers.

# Home of A. W. Peart, Burlington, Ont.

12. Rhus cotinus, commonly known as purple fringe or smoke tree, in bloom about the middle of July, and plumes last till November

13. Hydrangea paniculata grandiflora, in bloom about the middle of August, and lasts about three or four weeks.

For southern sections of the Province, this list might be greatly enlarged to include many of the more tender kinds, such as the Altheas, Deutzias, Laburnums, etc., which are not hardy at Guelph.

In arranging shrubs upon the grounds, it is well to avoid the common mistake of scattering them all over the front yard. The front lawn, as has already been mentioned, should be kept more or less open to give an air of breadth and expanse to the grounds. A few fine specimen bushes may be planted  $sing_V$  where they have room for full development and show to good effect ; but, for the most part, the best way is to

unite in the most harmonious way the walls of the building with the surface of the lawn. grouping them thus about the buildings, the taller specimens may stand in nooks and corners where they do not obstruct the view from the windows, while lower-growing kinds may be planted beneath windows, and in this way a varied and pleasing outline will be presented to the eye, rather than a continuous hedge. Along the drive and near the walks shrubs may also be used with good effect. Wherever a curve is made in a drive or walk, there should be some object to make the curve appear necessary, and nothing answers this purpose better than planting a clump of shrubs in the bend.

The more one is acquainted with the habits of shrubs, and knows the ultimate size to which they will grow, the better he can arrange them to give the most pleasing results ; but it is well to plant them fairly close, and thin out or transplant afterwards, as may be found necessary, to give desired effect.

It is well, in planting upon the lawn, where cultivation cannot conveniently be given, to mulch the ground heavily around the bushes with coarse, strawy manure or other material which will hold the moisture and enable the roots to make a good start.

In caring for shrubs and trees about the home, the main thing is to keep them growing thrifty and healthy. As a rule, very little if any pruning is necessary, except with roses and flowering plants of that kind. Each tree or bush should be allowed to develop its own natural form. We cannot too strongly condemn the practice of spoiling beautiful trees and shrubs by clipping them into unnatural shapes, as is often done with evergreens. In proximity to large public buildings, the architectural style of gardening, in which trees and shrubs are clipped into regular form, may be adopted if it is in keeping with its surroundings; but on the rural lawn, where the surroundings are all more or less natural, and even on city lawns, where the buildings are not pretentious, these clipped vegetable curiosities are ridiculous. And, for the same reason, many other artificial constructions, which are from time to time introduced on otherwise natural grounds, are to be discouraged.

Vines and climbers are particularly valuable upon village and town lots where the space is limited and all the surface available is desired for the growth of plants, but they are none the less valuable for the adornment of rural homes, and may be used in conjunction with ornamental shrubs to add beauty to the buildings, and unify them with the lawn and its surroundings. There are many kinds of beautiful climbers, differing in their luxuriance of foliage, vigor of growth and habit of climbing. Some are particularly adapted for climbing upon brick or stone walls. For this purpose, there is nothing better than the Boston Ivy (Ampelopsis veitchii) where it is sufficiently

hardy to stand the winter. At Guelph it is not sufficiently hardy to be depended upon, although if given protection for two or three winters it often covers a wide stretch of wall, but then may be killed back to near the ground. One of the hardiest climbers is the Virginia forms of this : the common-

est one (Ampelopsis quinque-

folia) climbs by means of

tendrils, and is one of the

best to cover a wooden build-

ing, or hide from view an un-

sightly outhouse. The other

(Ampelopsis quinquefolia, var.

Engelmanni) cling to the

The

brick or stone almost as well

Climbing Bittersweet (Celas-

trus scandens) is a rampant-

growing vine, found wild in

many parts of the country,

which climbs by twining

and, if given a chance, will

soon climb the pillars of a

veranda and festoon the balcony. The Trumpet Vine

and Climbing Honeysuckles

are also valuable to give

variety in flower and foliage. Among the flowering vines, one or more of the

The Trumpet Vine

as the Boston Ivy.



FOUNDED 1866

be greatly improved, but there is nothing like shrubs and vines to tone down the harshness and give detail and finish to the picture. These present such variety in form, foliage and flower, that no lover of Nature's handiwork who has room for them can afford to be without a good collection. lengthy list of varieties may be found in any of the nurserymen's catalogues, and many good kinds may be found growing wild in most any section of the country. With such a number to choose from, the amateur is often bewildered in making a selection. As a guide to the intending planter, we would recommend the following as a dozen very desirable hardy flowering shrubs to begin These are selected as a few of the best with. among the hundreds which have been tested on our College grounds, and whatever stands the climate here, we feel safe in recommending for the greater part of the Province. These are named in the order of their season of bloom, the first coming in bloom with us about the end of April and the last holding on till late in the autumn The dates of bloom are given to show how well the season may be covered from early to late.

1. Forsythia, or golden bells, in bloom about end of April, and lasts about three weeks

2. Ribes aureum, or golden currant, in bloom the second week of May, lasts two weeks.

3. Pyrus Japonica, or Japan quince, in blo about 15th of May, lasts nearly three weeks

4. Caragana, or Siberian pea-tree, in this about 24th of May, lasts over a week.

5. Lilacs, in great variety, some in bloom about 24th of May, and last about two weeks others in bloom as late as the 1st of July.



A Cosy Cottage.

Sheltered with evergreens and shaded by a stately elm. The perennial border in the foreground bounds the lawn in front.

amange shrubs in groups or clumps, massing them towards the borders and at the back of the lawn. They may thus be planted next to deciduous trees, not so close as to be overshaded by them, but in a way that they will help to blend the trees with the Lagn When planted in masses, the nds should, of course, be planted larger-growing id or center of groups, and the abught to the front, where their sweep the grass. Shrubs may smaller kin.

varieties of Clematis are excellent to cover a screen or lattice. Two of the best of these are Clematis Jackmanii, the large, purple-flowered one blooming in July, and Clematis paniculata, the small, white-flowered one, blooming in October. The Rambler roses, too, deserve a place about every home. Of these, the Crimson Rambler is the lavorite.

In planting vines and climbers about a dwelling, care should be taken to see that they are planted in good rich soil. A common cause of failure with them is that they are planted in the

# ICRO SAFETY -

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walls of wn. the taller rs where windows, inted be ried and the eye the drive sed with a drive nake the vers this shrubs

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### MAY 2, 1907

hard, bare subsoil excavated from the cellar, which is usually banked around the cellar walls. If the soil is not of good quality, it should be dug out, and good rich soil put in its place Nor should vines be planted so close to the wall that they are deprived of moisture by overhanging eaves. On the other hand, the lack of eavetroughs may allow them to get more water than they can stand.

# THE BROWN - TAIL MOTH IN CANADA.

By Dr. Jas. Fletcher, Dominion Entomologist, Ottawa. In 1902 Mr. William McIntosh, of St. John, New Brunswick, took a single male specimen of the browntail moth (Euproctis chrysorrhœa, L.) about 20 miles from St. John, N.B. About the same time another specimen was taken by Mr. Goldon Leavitt, at St. John, and in July of 1905, Mr. John Russell took a third specimen at Digby, Nova Scotia. Up to the present time these have been the only authentic records of this much-to-be-dreaded insect having been taken in Canada. Recently, however, I have received from Mr. C. Perry Foote, of Lakeville, Nova Scotia, one of the winter nests of the brown-tail moth, filled with the living caterpillars, thus proving that this insect has established itself at one place at least in Canada.

It was to be expected that the moths might be found here at any time, having been brought up direct from Massachusetts on one of the steamboats which ply regularly between Boston and the Maritime Provinces, but this would not necessarily prove that the insect had established itself. The occurrence of the young caterpillars, however, is a more serious matter, and shows that energetic measures are necessary at once to suppress and possibly to wipe out this unwelcome visitor before it becomes more widespread. The recognition of the winter nests is an easy matter, and this is the time of year to attend to their destruction. The brown-tail moth passes the winter as a very young caterpillar, and large numbers of these form colonies at the tips of the branches of the trees upon which they have been feeding the previous summer. The eggs are laid during July, and on hatching the caterpillars feed for some time on the upper surface of the leaves. As winter approaches they crawl to the tip of a branch and bind together a few leaves so as to make a tent. This is securely closed up with silk, and the caterpillars remain dormant all through the winter, and until the buds burst the following spring. These winter nests are easily recognized, from being almost invariably at the tips of the branches, and from being at this time of the year the only nests which contain colonies of living caterpillars. These latter are black, but covered with rusty hairs, and on the 10th and 11th segments towards the end of the body there are two reddish-yellow cushion-like tubercles, one on each segment, which the caterpillars can elevate or depress at pleasure.

### WHAT TO DO NOW.

The only way in which the brown-tail moth passes the winter is in the shape of these half-grown caterpillars, little more than one-quarter of an inch in length, in colonies of between two and three hundred, inside these nests of leaves at the tips of the branches. These are easily seen, and everybody in Nova Scotia and New Brunswick who is concerned in the successful management of orchards, and every citizen who is interested in the beauty of the town he lives in, should examine and look to the destruction of every nest of leaves found to contain caterpillars, which he may

# THE FARMER'S ADVOCATE.

they cause much annoyance from their stinging hairs, which cause excessive irritation when they come in contact with the human skin. Each hair is barbed, and at the time the cocoons are spun these hairs are broken off and carried by the wind, when they fall on the neck and other exposed parts of the body, giving rise to the painful rash, which is very serious with some people, even although they may not have actually touched the caterpillars. Dr. Howard's assistants who have been working on this insect have suffered very severely, and persons engaged in removing the nests from trees in the winter time must be careful not to handle these nests too freely, or they may be inconvenienced by this rash. The nests should be cut off from the trees, placed in a basket with as little handling as possible, and burnt at once. Dr. Howard states that "a large part of the popular feeling in New England that the brown-tail moth must be exterminated, is due as much to the annoyance of this rash as to the loss of vegetation from the caterpillars." As a remedy for this rash a free use of vaseline is recommended.

# DESCRIPTION OF INSECT.

The brown-tail moth resembles very closely the wellknown fall webworm, being of a beautiful pure white, except the tip of the body, which in both sexes is brown, and from which the popular name is derived. The female bears at the tip of the body an almost globular tuft of brown hairs. Both sexes fly freely, and are much attracted to lights-a fact of some importance as affecting their spread. The search-lights of night-sailing passenger steamers has attracted so many as to have drawn the attention of the officers of such vessels, who reported that moths have alighted upon their ships in great numbers in the vicinity of Boston about midnight on several occasions, and the introduction of the species at more than one seaport in Maine is attributed by Dr. Howard to vessels coming from the infested districts rather than by natural spread by direct flight.

# ONLY ONE BROOD IN THE YEAR.

The eggs are laid in masses containing about 300 eggs. These masses are brown in color from a thick covering of the golden brown hairs from the tip of the body of the female moth, and the whole egg mass more nearly resembles a silky, downy caterpillar than a cluster of eggs. These masses average about twothirds of an inch in length by one-fourth of an inch in width, and are found on the lower surface of the leaves in July. The caterpillars hatch in August, but do not injure the trees much before winter. As soon as the buds burst in spring they are at once attacked by the caterpillars, which emerge from their winter shelters and do much harm.

# SUMMER TREATMENT.

If the winter nests of the caterpillars have not been destroyed, trees should be sprayed with arsenical or other poisonous washes, so as to destroy the caterpillars during May and June. The caterpillars of the brown-tail moth are not so resistant to the poisonous effects of Paris green as are those of the gypsy moth. The spraying of all occhards with the poisoned Bordeaux mixture as a regular practice is recommended to all Canadian fruit-growers as the best general means of securing first-class fruit free of most of the ordinary pests which injure fruits. As the brown-tail moth caterpillars attack mapy other kinds of trees than fruit trees, it will be necessary that they should also be sprayed, and for this purpose Paris green may be used. A good useful poison wash consists of Paris green, one pound; fresh lime, one pound; water, 160 gallons. It is a very usual practice, however, among fruit-growers to use more than one pound of Paris green with lime in the 160 gallons, and, indeed, two pounds may be used without danger if two pounds of lime are added. Arsenate of lead is a newer remedy of great value, from the fact that it does not injure foliage so much, and remains on the leaves for a longer Three pounds of arsenate of lead may be used in 50 gallons of water without injury.

# ANNAPOLIS COUNTY, NOVA SCOTIA.

We have had a long winter. From the 25th of November to the 15th of April it has been possible to haul logs on snow anywhere in the forest. Every farmer is waiting for spring. Although a long, cold winter, there has been little depth of snow, probably not more than 20 inches at any time, and still we have had at least the usual amount of sleighing and sledding, consequently the frost has entered the ground to more than the usual depth. From present appearances we will have frost in the ground in May.

I wonder if any of your readers has noticed or will agree with what an old farmer told me not long ago? He said he had always noticed that after a winter in which there was little snow, that the ground dried more quickly after rains and suffered more from dry weather the following summer than if the winter had been one of heavy snowfall. I suppose if the fact were reduced to theory it might be explained that the soil is less thoroughly saturated by the melting snows of the winter in which there is a scarcity of snow, and therefore the rains of summer are more quickly absorbed. It was quite noticeable last summer that the ground became dry very quickly after each rain, and we certainly had very little snow in 1906. If this be the case, we shall need to get the cultivators at work soon after each rain the coming summer, for we shall need all the moisture we can get and keep. The precaution will hold good in any case, for the cultivator is never liable to be used too often. In our observations in this county, nine farmers use it once or twice during the summer-when it becomes absolutely necessary to keep down weeds-to one who uses it often to retain moisture. However, the right use and appreciation of the tool is gradually spreading, and wherever we see it used properly and often, we see better crops. As deforestation continues, we will be forced to adopt better methods of cultivation, and perhaps there is no more important subject for our Institute workers to keep before the farmers than this one of thorough and frequent cultivation.

The fruit trees have come through the winter seemingly in good shape. There seems to be an opinion prevalent among some of the old-time farmers that a certain sleet storm in March, which covered the trees with ice for three days, had the effect of destroying the eggs, etc., of insect pests. The greatest evil resulting from this belief will be that these farmers will take this as an excuse for not spraying.

Apples are pretty well sold out. Nonpareils have sold for \$3.00. R. J. MESSENGER.

# THE FARM BULLETIN

# RETAILERS AND THE SEED CONTROL ACT.

In the eastern part of Ontario the competition is keen among the seedsmen, or, perhaps better, their agents. The result is one has an opportunity of making some comparisons. Occasionally we find a local dealer handling the seeds of three or more firms. At one point a farmer was told that the seed he was looking at was Government standard when he asked if it were free from weeds; to which he replied, I find that there is nothing in that Government standard term. I will take a sample and send it to the Seed Branch, and if it turns out all right I will take so much of that seed

A number of the seed retailers, when weed seeds are pointed out in their samples, say that they are disappointed, and another year the wholesaler who gets his ist give a written guarantee that the seeds he buys will grade No. 1 under the Act, for what he wishes to sell as No. 1, and that the other must be good enough to sell. A few of the large firms seem to be grading some of their brands very close to the maximum number of weed seeds allowed to be sold, viz., 5 to 1,000. This is rather a foolish and dangerous policy. Some of the English and Chili seeds which have been imported are very large, and make a fine looking sample, but too frequently they are being offered in the trade with too many weed seeds, such as ribgrass, curled dock, fool's parsley, catchfly and dodder, besides a seed which resembles wild mustard very much, except in color and flavor. Most of the farmers have secured their supplies of seeds by this time, but very often they run short and need some to finish out a piece. That is the time to look out for low-grade seeds. The best seeds are usually bought up first by enterprising farmers, while tenant farmers are too frequently satisfied with the cheaper grades, much to the disadvantage of the land owners, who, if they wish to keep their farms clean of noxious weed life, should furnish the small seeds to sow themselves.

The destruction of these winter nests is the most effective means of keeping them within bounds.

# A DANGEROUS ENEMY.

With the exception of the San Jose scale there are no two insects which have attracted so much public attention, nor with regard to which so much money has been spent in America by the State and Federal Governments of the United States, as the gypsy moth and the brown-tail moth. Both of these are pests introduced into America from Europe-the gypsy moth about 1869, and the brown-tail moth somewhere about 1890. Millions of dollars have now been spent on fighting the gypsy moth and the brown-tail moth in Massachusetts and the adjoining States. Dr. Howard, when treating of this insect, and an effort which is being made to introduce European parasites, says, in the Yearbook of the Department of Agriculture for 1905,: "The brown-tail moth has become even more abundant and injurious than the gypsy moth, and, owing to the fact that the female flies readily, whereas the female of the gypsy moth does not fly at all, the brown-tail moth has far exceeded the gypsy moth in its spread

### PLANTS INJURED.

These caterpillars injure nearly all of the large and small fruits, and many perennial plants. The pear and apple seem to be favorites, but stone fruits, elms, maples and the oak are also commonly injured. A list over 80 different kinds of food plants was published Thousands of fruit trees in the vicinity of Boston, Dr. Howard says, have been killed by the le own-tail moth.

### THE BROWN-TAIL RASH.

ters upon the foliage of many kinds of trees, but postage will be required.

### RESUME.

The brown-tail moth, which has been the cause of enormous loss in Europe and the United States, is, undoubtedly, established in one locality in Nova Scotia, and probably in several others. It is important to find out as soon as possible the range of infestation, and everybody is urged to send in as soon as possible any suspicious nests of insects, or clusters of leaves webbed together, particularly if they contain caterpillars, if they notice any on their trees.

The collection of the winter nests is the best and easiest means of controlling this insect.

The collection of these nests must be done carefully. with as little handling as possible, and all should be burnt at once when cut from the trees.

This work must be done before the buds burst.

Any trees bearing nests of the brown-tail moth after the buds have opened, must be sprayed with some poisonous mixture for the destruction of the caterpillars.

The establishment of the brown-tail moth in "inada is a serious matter, affecting everybody in the district where the insects occur

What is now only a matter of considerable interest, may, if neglected, become a public calamity.

Specimens for examination may be sent to ' The Farmer's Advocate," or to the Entomologist, Central Not only are the caterpillars of this insect voracious Experimental Farm, Ottawa. If sent to the latter no

On the whole, it may be stated that the seed merchants are conforming to the law pretty well, and the average of the seed for purity is growing better from year to year. T. G. RAYNOR.

J. A. Ruddick, Dairy and Cold-storage Commissioner, Department of Agriculture, Ottawa, has been appointed Canadian delegate to the third International Congress of the International Dairy Federation, which meets this year in September at the Hague, Holland. He will also attend a health convention in Brussels, at which the relation of dairy supplies to health will be discussed.



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# THE FARMER'S ADVOCATE.

Agricultural Legislation of 1906-'07 at Ottawa.

While practically all of the legislation that has been put through by the Dominion Government during the session that has been in progress during the past five months has more or less interest to the agriculturist, in common with other classes of the community, three of the measures that have been enacted have a direct bearing upon agriculture. These are the "Cold-storage" Act, the "Meat and Canned Foods" Act, and the "Customs Tariff Revision of 1907.".

THE COLD-STORAGE ACT is in accordance with the policy of the Minister of Agriculture, formulated some years ago, for the purpose of aiding the export trade in perishable food products. Commencing with the assistance to steamship companies towards the installation of cold chambers for the carrying of fruit, dairy products, etc., the work was extended to the provision of an iced-car service during the heated months for butter, then for cheese; the construction and operation of illustration cooling rooms, and the bonusing of cheese and butter factories for the construction of refrigerators according to plans recommended by the Department." This still left the weak link of a lack of cold-storage facilities for the cooling and holding of such products as fruits, dressed poultry, etc., until these could be forwarded to the market by cool cars and steamships.

This bill provides for the granting of subsidies to persons who may enter into contracts with the Governor-in-Council for the construction, equipment and maintenance in good and efficient working order, of public cold-storage warehouses equipped with mechanical refrigeration, in Canada, and suitable for the preservation of all food products.

Upon the approval of the Governor-in-Council of the details of plans, specifications, location and amount to be expended upon every such warehouse, the Minister of Agriculture grants towards the construction and equipment of such warehouse a subsidy of thirty per cent. of the cost thereof in five installments, as follows 15 per cent. upon the completion of the cold storage and its satisfactory operation ; 7 per cent. at the end of the first year following; 4 per cent. at the end of the second year; and 2 per cent. at the end of each of the two next succeeding years; provided the warehouse is maintained and operated to the satisfaction of the Minister of Agriculture.

THE MEAT AND CANNED-FOOD ACT is a measure that should very materially assist the export trade in meats, vegetables, fruits and fish. Its purpose is to safeguard the trade in these products from charges of unwholesomeness, and in this way establish the same measure of confidence for these foods as already exists in Canadian cheese and butter. A meat inspection measure has been recommended by the Veterinary Director-General for two or three years, but not until the effect of the revelations of conditions at Chicago packing-houses became apparent did such legislation appear necessary in Canada. The publicity given the findings of the inspection commission appointed from Washington, gave all canned goods and products of meat-packing plants a name so bad in the minds of consumers wherever American foods reached, that the sale for them fell off greatly in all the leading markets of the world. To insure confidence in Canadian dressed, cured and canned meats, etc., the new measure was enacted.

To the great satisfaction of the Government, an inspection of all the meat-packing plants in Canada, preparing food for either export or interprovincial trade, by an official of the Department of Agriculture, revealed a generally satisfactory condition. The plants themselves, and the manner in which they were found to be operated, were calculated to turn out wholesome food in attractive form. It was to insure a continuation of this condition, and to have the products of Canadian factories marketed bearing the seal of Governmental inspection that the meats and canned-food act was introduced and made law by the Parliament of Canada. There are two main divisions to the bill. The provisions in regard to meats, including dressed carcasses, cured bacon, hams, dressed poultry, sausages, and all canned or bottled meat products are a little more drastic than the provisions which apply to fruits. vegetables and fish. In plants where the former are prepared, one or two duly qualified Government inspectors are to be constantly employed, to inspect the animals alive and again after slaughter, and the parts thereof in the course of curing or canning. That found healthy and fit for food shall be duly marked by the inspector, which mark it is intended shall constitute a guarantee that the product is above suspicion. Provision is made for re-inspection before shipment, if considered necessary, with a view to determining whether the product has undergone deterioration since the first inspection.

regulations shall be granted permission to use such marks as will indicate that their products are sound and good. A plant that is not so conducted may be closed and its packed goods confiscated. All unsound or unwholesome products discovered in packing plants by inspectors shall be confiscated or destroyed.

Penalties ranging up to five hundred dollars are provided for false marking, tampering with marks, obstructing inspectors, and other violations of the Act. The Governor-in-Council may suspend the operations of any sections of the Act until the beginning of the year 1908.

The industry to be safeguarded by this Act is now worth about twenty millions of dollars annually for export alone, while the interprovincial trade in these products is enormous. It is calculated that some \$60,000 will be required to carry out this inspection the first year. This will include the salaries and expenses of from 35 to 40 inspectors, in addition to the bonus of \$100 granted to each candidate who chose to prepare himself for inspection work by taking a special course in meat inspection at Chicago. At the present time there are in Canada from 15 to 20 meat-packing plants that will require constant inspection, and from 60 to 70 canneries that will need occasional supervisory inspection.

# THE TARIFF CHANGES.

The Customs Tariff Act of 1907 differs from tariff measures previously enacted by the Parliament of Can-Heretofore one specified general tariff was proada. vided for, while the Act of 1907 makes provision for three separate specific tariffs, viz.: British Preferential, Intermediate and General.

The British Preferential Tariff applies to goods produced or manufactured in the following British countries when imported direct to a Canadian port : The United Kingdom, Bermuda, British West Indies, British Guinea, British India, Ceylon, Straits Settlements, New Zealand, Cape of Good Hope, Natal, Orange River Colony, Transvaal, and Southern Rhodesia. Any ot British Colony may be admitted to this preference an order-in-council, and the preference may be wi drawn by the same procedure from and after, in eit case, the publication of the order-in-council in, Canadian Gazette.

In the old tariff of 1897, which remained in ope tion until the present one came into force in Nove ber, 1906, the British Preference amounted to a red tion of 25 per cent. of the general tariff on all Brit goods, with the exception of certain spirituous liquo medicines, tobaccos, etc. This preference, by the A of 1907, is set at a fixed amount or percentage each article specified.

The Intermediate Tariff shall apply to goods t produce or manufacture of any British or foreign cou try, to which the benefits of it shall have been extend to that country by the Governor-in-Council, in co sideration of favors granted the products of Canad By this process articles shall be transferred from t general to the intermediate classification. This tran fer shall have effect simultaneously with the publication of the order-in-council in the Canadian Gazette. Pr vision is made for the withdrawal of this benefit at t discretion of the Governor-in-Council.

This intermediate tariff has not yet been put int operation with any country. It is purely a provision for a reciprocal arrangement that may be entered int between the Governor-in-Council and a country seeking better terms than the general tariff affords.

In order to guard against the effects of undervalu tion of imports, provision is made in the Tariff Ac for levying a special duty ("Dumping Duty") on suc

Barley ...... 30% 15c. 12 tc. 100 Beans, per bush... ..... 15c. 25c. 22 1c. 15c Buckwheat, per bush..... 10c. 15c. 12 tc. 100 Peas, n.e.s., per bush ..... 10c. 15c. 12 tc. 10c. Bran, millfeed ..... 20% Oatmeal, lbs. ..... 20% 60c. 50c. 40c. per 100 lbs. Hops, per 1b. ..... TC. 6c. ec. te Bulbous roots, n.o.p. ..... 20% 25%221% 15% Plums, bush. ..... 25%30c. 20c. 20c. Quinces ...... 25% 50c 45c. 35c. Potatoes, n.o.p. ..... 15c. 20c. 17<u>1</u>c. 12 <u>‡</u>c. Melons ..... 25% 3c.  $2\frac{1}{2}c$ . 2c. each Tomatoes, bush. ..... 20c. 30% 273% 20% 10% Agricultural Implements, Appliances, etc .--Harvesters, self-binding ..... 20% 171% 171% 121% Lawn mowers ...... 35% 321% 30%20% Mowing machines ..... 20% 171% 17:8% 121% Rakes, hay, n.e.s. ..... 25% 221% 20% 15% Reapers ..... 20%  $17\frac{1}{2}\%$ 171% 121% Spades and shovels, spade and shovel blanks, and iron or steel cut to shape for same ...... 35% 321% 30% 20% Windmills ..... ..... 25% 20% 171% 121% Horse-powers, portable engines, threshers, separators, and finished parts thereof for repairs ...... 25% 20% 171% 15% Stoves of all kinds, and parts thereof ..... 25% 10% 73% 5%

Field and Orchard Products-

Following is a complete statistical classification of imports relating to agriculture, together with the rates of duty under the three tariffs, as provided in the Customs Tariff Act now in f.

ther	toms Tariff Act now in force :	an pro	inded in	the Cus-
by		British		
ith-		Prefer-	Inter-	
her		ential	mediate	General
the		Tarif	f. Tariff.	Tariff.
	Animals, Agricultural Produ	icts and	Provisio	ng
era-	norses, cattle, sheep, goats, ass	S	1.011310	
em-	swine, dogs and domestic for	vls		
luc-	for the improvement of stor	.k		
ors,	under regulations prescribed	by		
Act	the Governor-in-Council	Free	Free	Free
for	Bees	Free	Free	Free
	Horses over one year old, value	-d		
the	at \$50 or less per head each	\$10	\$12.50	\$12.50
un-	Animals living, n.o.p.	15%	223%	25%
ded	Meats, fresh, n.o.p Canned meats, canned poultr	2c.	2 <b>∄</b> c.	3c.
on-	and game; extracts of meat	y		
da.	and fluid beef not medicated	S		
the	and soups of all kinds	17101	OF OF	0710
ns-	fourtry and game, n.o.D	1919	20%	27 <b>±%</b> 20%
on ro-	meacs, n.o.p., per Ib.	140	1 % % 1 % c.	20% 2c.
he	Provided that the weight of	0	- 4 U.	4U.
	barrel of pork for duty pur	-		•
to	poses shall not be less than	1		
on	two hundred pounds.			
to	Lard, lard compound and similar			
ng	substances, cottolene and ani mal stearine of all kinds, n	-		
	o.p.; per pound			
a-	Eggs, per dozen	1 <u>\$</u> C.	1ªc.	2c.
ct	Cheese, per pound	2c. 2c.	2 1 c.	3c.
ch	Butter, per pound	30	Зс. 4с.	3c.
ng ue	Hops, per pound	40	Øc.	4c. 7c.
to	beans, n.o.p., per bushel	15c	22 dc.	25c.
er	reas, n.o.p., per bushel	10c.	12 <u>1</u> c.	15c.
g-	Buckwheat, per bushel	10c.	12 <u>1</u> c.	15c.
or	Buckwheat meal or flour, per			
16	100 lbs.	35c.	45c.	50c.
	Barley, n.o.p., per bushel Corn meal, per barrel		12 <u>1</u> c.	15c.
ts	Indian corn for purposes of dis-	20c.	22 <u>1</u> c.	25c.
n-	tillation, subject to regula-			
s. e-	tions to be approved by the			
is	Governor-in-Council, per hush	710	710	710
15	ritinan corn, not for purposes	. 2	130.	7 ± C.
	of distillation, and under requ-			
1S	lations prescribed by the Min-			
	ister of Customs Oats, per hushel	Free	Free	Free
	Oats, per bushel Oatmeal and rolled oats, per	7c.	9c.	10c.
	100 lbs			
sh	Rye, per bushel	40c.	50c.	60c.
r -	Rye Hour, per barrel	7c. 33c.	9c.	10c.
ı l	wheat, per bushel	8c.	45c. 10c.	50c.
Ĩ.	wheat flour, per barrel	40c	10c. 50c.	12c. 60c.
	Hay and straw, per ton	1.65	\$1.75	\$2.00
	rlaxseed, per bushel	71c.	10c.	10c.
	Seeds of twimothy and clover	5%	10%	10%
	Field and garden seeds, not		, -	
0	specified as free, valued at not			
	less than 85 per lb., in pack-			
	ages weighing not less than 1 ounce each	- 01	~	
n n	ounce each Garden, field and other seeds	5%	10%	10.%
	for agr. or other purposes, n.			
	c p: sunflower, canary, hemp			
	and millet seed, when in pack-			
	ages weighing over 1 lb. each	5%	10%	1017
		.,	10/0	

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Carcasses or portions thereof considered unhealthful or unfit for food, or which contain such ingredients or preservatives as may render them unfit for food, shall be marked by the inspector in such a manner as to indicate their condition, when it shall be disposed of as regulations provide.

In the case of fruits, vegetables and fish, the bill provides for sufficiently frequent and thorough inspection of packing plants to ascertain whether these are kept in a sanitary state, and whether the products prepared and packed for export are sound, wholesome and fit for food. Factories conducted in accordance with

articles equal to the difference between the said sellin price for the article for export and a fair market value for home consumption. This special duty is limited t fifteen per cent., ad valorem. Exempted goods unde this provision include sugar refined in the United King dom, and binder twine made from certain grasses ( fibres and measuring not exceeding 600 feet to th pound.

Again, a surtax is provided to apply to the good of any foreign country which treats imports from Car ada less favorably than these from other countries The amount of the surtax when imposed shall be one third of the duty specified in the general tariff. Thi is a continuation of the amendment to the custom tariff, assented to in October, 1903.

Articles for which changes in the general custom tariff have been effected by the Tariff Act of 1907 1904 - 1905

-1907-

		.,	1.0007	
Article.	Tariff.	General Tariff.	mediat Tariff.	Britis) Prefer e ential Tariff
Live Stock and Live-s Cattle (unregistered) Horses (unregistered) Horses (unregistered) ove	20% 20%	25%	2237	15%
1 yr. old, valued at \$50 or less per head each Sheep (unregistered)	20%	\$12-50 2572	\$12.50 2214	S10 (0) 157
Canned meats, poultry an game		2717	25%	1797
beef not medicated, and soups Meats, fresh, n.o.p	. 25%	274 (** 26		17 (S) 2

NDED 1866

21c. ₿<u></u>₫С. 2<u>1</u>c. ₫C. 0c. lbs. Ec.

1%

0c.

%

%

%

%

6

6

15%

20c.  $\frac{1}{2}c. = 12\frac{1}{2}c.$ ₫C.

20%

121% 20%

121% 15% 121%

20%

15%

5%

ication of

the rates

the. Cus-

e General f. Tariff.

Free

Free \$12.50

25% 3c.

271%

20% 2c.

4c. 25c 15c

15c

71C.

Free

60c

60c. \$2.00

ons-

121%

# THE FARMER'S ADVOCATE.

	Garden, field and other seeds for agr. or other purposes, n. o. p.; sunflower, canary, hemp	)			ers, and complete parts there- of, not including shafting 1 Cultivators, plows, harrows.
	and millet seed, when in pack- ages weighing 1 lb. each or less seeds, viz., annato, beet, car-	15%	22支援	25%	horse-rakes, seed-drills, manure spreaders, weeders and wind- mills, and complete parts
	rot, turnip, mangold, mustard sowing rape seed and mush-				thereof, not including shaft'g 1 Portable engines with boilers,
	room spawn Seed peas and seed beans, from the United Kingdom		Free	$\mathrm{Free}$	in combination, horse-powers and traction engines, for farm purposes; wind stackers and
C	Trees, n.o.p., and teasels Trees, viz., apple, cherry, peach, pear, plum and quince, of all	Free	Free	Free	threshing machine separators, including baggers, weighers, and self-feeders therefor, and
	kinds, and small peach trees known as June buds, each		2 <u>1</u> c.	Зc.	finished parts thereof for repairs Hay loaders, potato diggers,
	<ul> <li>Grape vines; gooseberry, rasp- berry, currant and rose bushes; fruit plants, n. o. p., trees, plants and shrubs, commonly known as nursery stock, n.</li> </ul>		- 1		fodder or feed cutters, grain crushers, fanning mills, hay tedders, farm, road or field rollers, post - hole diggers, snaths, and other agricultural
	o. p	12100	171%	20%	instruments, n.o.p.
,	Potatoes, n.o.p., per bushel Tomatoes, fresh Tomatoes and other vegetables,	$12\frac{1}{2}c$ 20%	$17\frac{1}{2}c.$ $27\frac{1}{2}\%$	20c. 30%	Axes, scythes, sickles or reap- ing hooks, hay or straw knives, edging knives, hoes,
	including corn and baked beans in cans or other air - tight packages, n.o.p.; the weight of				rakes, n. o. p., and pronged forks Shovels and spades of iron or
	the cans or other packages to *be included in the weight for duty, per pound	1c.	14c.	1.1	steel, n.o.p.; shovel and spade blanks, and iron or steel cut to shape for the same; and
	Vegetables, n.o.p Fruits, viz., bananas, plantains, pineapples, p o m e g r anates, guaves, mangoes, wild blue-	15%	$27\frac{1}{2}\%$	1 <u>4</u> c. 30%	lawn mowers Stoves of all kinds, for coal, wood, oil. spirits or gas Churns, n.o.p., brooms. whisks,
	berries, wild strawberries and wild raspberries	Free	Free	Ener	washboards. pounders and rolling pins
	Apples, per barrel Apples, dried, desiccated or evaporated, and other dried,	25c.	35c.	Free 40c.	Freight wagons, farm wagons, drays and sleighs, and com- plete parts thereof 1
	desiccated or evaporated fruits, n.o.p Here and the second	171%	221%	25%	Buggies, carriages, pleasure carts and vehicles, n. o. p.; tires of rubber for vehicles of
	berries, strawberries, cherries and currants, n.o.p.; the weight of the package to be included in the weight for				all kinds, fitted or not; cut- ters, children's carriages and sleds, and finished parts of all articles in this item 22
	duty; per pound Cranberries and fruits, n.o.p1	1 <u>1</u> c.	1 % c.	2c.	Provided that for duty pur-
	Pears, quinces, apricots and		223%	25%	poses the minimum value of an open buggy shall be \$40,
	nectarines, n.o.p., per 100 lbs. Plums, per bushel	35c. 20c.	45c. 20c.	50c. 30c.	and the minimum value of a covered buggy shall be \$50.
	Melons, each	2c.	$2\frac{1}{2}c$ .	3c.	Steel strips and flat steel wire,
	Grapes, per pound Peaches, n.o.p.; the weight of the package to be included in the weight for duty, per 100	1 <u>1</u> c.	1ªc.	2c.	when imported into Canada by manufacturers of buckthorn and plain strip fencing, for use exclusively in the manu-
	lbs Honey, in the comb or other- wise, and imitations thereof,	67c.	90c.	\$1.00	facture of such articles in their own factories, and barbed fencing wire of iron or steel. F
	per pound	2c.	2 c.	3e.	Galvanized iron or steel wire,
	Raw sugar produced in Canada from Canadian beet-root —				Nos. 9, 12 and 13 F
	under regulations by the Min- ister of Customs-per 100 lbs,				Binder Twine and Woollen Goo Binder twine F
	testing not more than 75 de-				Articles which enter into the cost of the manufacture of
	grees by the polariscope ; And per 100 lbs. for each additional degree over 75	31 <u>4</u> c.	31 <u>1</u> c.	31 <u>‡</u> c.	binder twine, when imported for such use exclusively by
	degrees This item to expire Dec. 31.	1c.	1 c.	1c.	manufacturers who manufacture such twine only F Horse clothing of jute, shaped
	1909, provided that raw sugar imported under this item shall				or otherwise manufactured 20

		horse-rakes, seed-drills, manure		
21%	9-01	spreaders, weeders and wind-		
~ 2 /0	25%	mills, and complete parts		
		thereof, not including shaft'g $12\frac{1}{2}\%$	171%	20%
		Portable engines with boilers,		
Free	Free	in combination, horse-powers		
		and traction engines, for farm		
		purposes; wind stackers and		
Free	Free	threshing machine separators,		
		including baggers, weighers,		
		and self-feeders therefor, and		
		finished parts thereof for repairs 15%	173%	20%
2 <u>1</u> c.	Зc.	Hay loaders, potato diggers,		
		fodder or feed cutters, grain		
		crushers, fanning mills, hay		
		tedders, farm, road or field		
		rollers, post - hole diggers,		
		snaths, and other agricultural	00.00	0 - C
73%	20%	instruments, n.o.p 15%	221%	25%
7 <u>1</u> C.	20c.	Axes, scythes, sickles or reap-		
71%	30%	ing hooks, hay or straw		
		knives, edging knives, hoes,		
		rakes, n. o. p., and pronged forks 15%	0.007	0010
		Shovels and spades of iron or	20%	$22\frac{1}{2}\%$
		steel, n.o.p.; shovel and spade		
		blanks, and iron or steel cut		
1 <u>4</u> c.	1±c.	to shape for the same; and		
7 1 %	30%	lawn mowers 20%	30%	321%
* 10×	0070	Stoves of all kinds, for coal,	0070	023/0
		wood, oil, spirits or gas 5%	71%	10%
		Churns, n.o.p., brooms. whisks,	3 /0	2070
		washboards, pounders and		
ree	Free	rolling pins 15%	171%	20%
35c.	40c.	Freight wagons, farm wagons,	- /	7.5
		drays and sleighs, and com-		
		plete parts thereof $17\frac{1}{2}\%$	223%	25%
		Buggies, carriages, pleasure		
1/0	25%	carts and vehicles, n. o. p.;		
		tires of rubber for vehicles of		
		all kinds, fitted or not; cut-		
		ters, children's carriages and		
		sleds, and finished parts of all	0.00	0 - 01
9		articles in this item $22\frac{1}{2}\%$	30%	35%
<sup>8</sup> ₄C.	2c.	Provided that for duty pur- poses the minimum value of		
1%	25%	an open buggy shall be \$40,		
5c.	50c.	and the minimum value of a		
0c.	30c.	covered buggy shall be \$50.		
<u></u> 1€.	3e.	Steel strips and flat steel wire,		
2 € . 4 € .	2c.	when imported into Canada by		
4	20.	manufacturers of buckthorn		
		and plain strip fencing, for		
		use exclusively in the manu-		
De.	\$1.00	facture of such articles in		
		their own factories, and barbed		
		fencing wire of iron or steel. Free	Free	Free
2с.	3c.	Galvanized iron or steel wire,		
		Nos. 9, 12 and 13 Free	Free	Free
		Binder Twine and Woollen Goods-		
		Binder twine Free	Free	Free
		Articles which enter into the	LIGG	1.1.66
		cost of the manufacture of		
$\frac{1}{2}C$ .	31 <u>1</u> c.	binder twine, when imported		
		for such use exclusively by		
		manufacturers who manufacture		
1с.	1с.	such twine only Free	Free	Free
		Horse clothing of jute, shaped		
		or otherwise manufactured 20%	271%	30%
		Wool and the hair of the camel,	215	10

and complete parts there- not including shafting124% vators, plows, harrows. se-rakes, seed-drills, manure aders, weeders and wind- s, and complete parts	173%	171%	Harness and saddlery, including horse boots Fertilizers, unmanufactured, in- cluding phosphate rock, kain- ite or German potash salfs, and German mineral potash;	20%	271%	30%
eof, not including shaft'g 124% ble engines with boilers, combination, horse-powers	171%	20%	bone dust, charred bone and bone ash; fish offal, or refuse, and animal or vegetable ma-			
traction engines, for farm poses; wind stackers and			nures Fertilizers, compound or manu-	Free	Free	Free
shing machine separators,			factured, n.o.p	5%	71%	10%
iding baggers, weighers, self-feeders therefor, and			APPROPRIATI	IONS.		
hed parts thereof for repairs 15% loaders, potato diggers, ler or feed cutters, grain hers, fanning mills hav	17素%	20%	The fiscal year now ends on June 30th, as formerly. The f for agriculture, for the year endi	following	g are esti	imates

17 months. Experimental Farms \$140,000 Additional Branch Farms 40,000 Publication of Bulletins and Reports 8,000 Fumigation Stations 4,500 Exhibitions 250,000 Dairying, Fruit and Trade Extension 115,000 Cold Storage 50,000 Live Stock 45,000 1907-08. 
 Live Stock
 45,000

 Health of Animals
 350,000

 Food Inspection
 75,000

21% It will be seen that an extension of service is being provided for in most of the departments. It is ex-0% pected that branch experimental farms will be put into operation in Central and Southern Alberta during the

present season. An additional vote of thirty thousand 20% dollars, not shown in the above table, is for a new horticultural building and cattle stable at the Central Farm.

The work of the Dairy Commissioner is being extended in the direction of supervising and assisting the export butter trade. For this work Mr. Geo. H. Barr, formerly Chief Dairy Inspector in Western Ontario, has been appointed to a place on the staff of this branch of the Department of Agriculture.

The enforcing of the Seeds Act in the various Prov-15% inces, and the establishing of a seeds laboratory at Calgary for the Western Provinces, call for an increased expenditure of money in the branch of the Seed Commissioner.

The Cold-storage Bill, already described, explains the disposition of \$100,000 of the grant for cold-storage purposes.

The Health of Animals Branch, which is now associated with the Live-stock Branch, will administer the inspection of meats and canned foods, as provided in the bill already described. During the session a grant of \$5,000 was voted to Dr. Grenfel, the Labrador missionary, towards the importation of reindeer from Northern Europe to the Canadian Labrador,

to provide flesh, milk and clothing for the inhabitants ree of that barren country.

# COMING EVENTS.

May 1-4-Canadian National Horse Show, St. Lawrence Arena, Toronto.

May 8-11-Montreal Horse Show.

- May 8-9-Glasgow Jubille Show; horses, cattle, sheep, ree etc.
- June 5-10-Bath and West of England, Newport, Mon. 0% June 6-8-Galt Horse Show.

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MAY 2, 1907

		not be subject to special duty. Maple sugar and maple syrup 15% Cider, not clarified or refined. per gallon	17番% 50. 100. 200号 17番%	20% 5c. 10c. 224% 20%	alpaca, goat, and other like animals, not further prepared than washed, n.o.p.; noils, be- ing the short wool which falls from the combs in worsted factories, and worsted tops, n. o. p Free Wool, viz., Leicester, Cotswold, Lincoln, Southdown, combing wools, or wools, or wools known as lustre wools, and	Free	Free	<ul> <li>June 7-13—International Horse Show.</li> <li>June 7-13—International Horse Show.</li> <li>June 13-15—Winnipeg Horse Show.</li> <li>June 25-29—Royal Agricultural Society's Show at Lincoln.</li> <li>July 9-12—Highland and Agricultural Society's Show at Edinburgh.</li> <li>July 13-20—Winnipeg Industrial Exhibition.</li> </ul>
		Cement. Portland and hydraulic or water lime,' in barrels, bags or casks, the weight of the package to be included in the weight for duty; per 100 pounds	11c. Free	12₫c. Free	<ul> <li>other like combing wools, such as are grown in Canada, per pound</li></ul>	24c. 274%	3c. 30%	IN THE TRAIL OF THE SPLIT - LOG DRAG. In a letter to "The Farmer's Advocate" office, Mr. T. G. Raynor, of the Seed Branch, Ottawa, observes that while driving from Alexandria to Lancaster, Im Glengarry Co., Ont., he noticed a split-log drag in operation on some of the heavy clay roads in that sec- tion, and it was doing.good work, although the ground was almost too dry. in his judgment, before the drag- ging was begun. "But," he says, "it was levelling and filling in the ruts in good shape. The split-log drag is bound to prove popular."
9	C	number 14 gauge, nor to in- clude fencing of wire larger than number 9 gauge	1217	15%	of woollen goods, for use ex- elusively in their own fac- tories	171%	20%	By special invitation, President G. C. Creelman, O. A. C., Guelph, attended the commencement exercises of the Agricultural College, University of Nebraska, on April 26th. His trip included a visit to the Iowa State College at Ames, where four Canadian graduates of the Ontario Agricultural College are included in the staff.
		when plates of steel, but not coulded, punched, polished, or otherwise manufactured Free wing machines, harvesters, off-binding or without bind- ess, binding attachments, reap-	Free	Free	articles in their own factories Free Miscellaneous— Hides and skins, raw, whether dry, salted or pickled; and raw pelts	Free	Free Free	H. G. Bell, B.S.A., a 1905 graduate of the Ontario Agricultural College, who has since been connected with the Experimental Department of the College, has ac- cepted the position of Assistant Agronomist in the Iowa State College at Ames.

# THE 1907 SESSION'S WORK OF THE ON- beekeepers are now for the first time in direct touch TARIO LEGISLATURE.

AGRICULTURAL SOCIETIES.-The new Agricultural Societies Act, passed in 1906, comes into operation for the first time this year. A short amendment act was passed at the recent session, providing for the incorporation of a few societies whose affairs were in a somewhat uncertain condition, and changed two societies, those of Forest and Chesley, from horticultural societies into agricultural societies. It appears that for some years these two societies have been carrying on agricultural work, and as the two classes are now controlled by separate acts, it was necessary to transfer them from the one class to the other. The old question of horse-racing at fairs has been a subject of much discussion. The Provincial Fairs Association twice asked the Minister to take the ban off horse-racing and deave it to local option. The Government has not seen fit to do so. Then the representatives asked the Government to protect the directors from prosecution by Takers and confidence men, who threatened revenge through being excluded from the grounds. The Minister decided that as the enforcement of this part of the act has always been a local enforcement measure, he would protect the directors thus far, in that prosecutions must be inaugurated by members of two yesrs' standing. The fact is that agricultural exhibitions are run by the directors and not by the members. The result is that directors cannot ignore the wish of the members in this regard. For the first time a vote of \$5,000 appears, to be divided among the Toronto, London and Ottawa exhibitions, which do not share in the \$70,000 grant for agricultural societies.

LIVE STOCK .- The report of the commissioners appointed to enquire into the horse industry was presented to the Legislature, and is now being printed. The Minister did not introduce any legislation based upon it. Opportunity will be given for a full consideration of the evidence, and meetings will probably be held to discuss the subject. There appears to be a wide diversity of views as to what should be done. The Minister proposes to move cautiously, and allow all sides to be heard. The grant for the spring stallion show was increased from \$1,000 to \$2,000, and \$4,000 is allowed to continue the horse investigation and make grants to local horse shows. The Premier announced that the question of enlarging the Winter Fair buildings at Guelph will be considered and decided before the next session. Provision was made for special swine sales in Eastern Ontario, with a view to increasing the supply of bacon hogs. There is a vote of \$2,000 to pay the transportation of Ontario horses to the London, England, horse show.

INSTITUTES .- The only noticeable change here is an increase in the contingencies vote, which is intended, we understand, to provide for the salary of an assistant to the Superintendent.

DAIRY BRANCH .- The grant for instruction and inspection has been increased from \$32,500 to \$35,000. This, however, does not really represent the increase. Hitherto, the factories benefited have been charged a fee of \$15. This is abolished. All the instructors will be inspectors as well, and every factory in the Province will be visited. The aim is to enforce the act, so that all factories will be required to provide sanitary conditions. A large deputation pressed upon the Minister to assist by a substantial vote the holding of a Provincial Dairy Show. This was not acceded to. The Minister, apparently, is of the opinion that the strengthening of the Winter Fair at Guelph calls for more immediate attention.

FRUIT.-The new experimental fruit farm in Lincoln County has demanded a good-sized vote; \$15,000 is available for new buildings, equipment and expenses. We understand that no pains are being spared in searchlive expert, who will take charge of the iming for portant work. It would be easy to find a man who could grow fruit, but what is wanted is a man who can produce new varieties of fruit. Ten thousand dollars was voted for spraying, San Jose scale and assisting co-operative associations. The Department and the Ontario Fruit-growers' Association are encouraging these very promising organizations. Five thousand dollars has been set aside to be voted to these associations, based on the work done by power sprayers. An amendment was made to the Scale Act. The section providing for the appointment of township inspectors was enlarged as follows: " Upon the report of the inspector to the council that there is scale upon the trees or shrules on any lot within the municipality, the council may direct that notice be given personally by the inspector, or by being sent by registered letter to the owner or occupant of the lot, to have the trees or shrubs forthwith sprayed, and in case the same are not sprayed within ten days, the inspector may cause the spraying to be done, and the cost of same shall be charged on the lot and be collected as a special tax, in addition to the other taxes imposed by the municipal council on the lot."

with the Department's work.

PIONEER FARM .- It is proposed to start a new experimental farm in the clay belt of Northern Ontario. Three thousand dollars was provided for clearing and beginning the work.

ONTARIO AGRICULTURAL COLLEGE.-Provision is made for the continuing of the work already in hand, and also for extension. There will be increased work in plant-breeding and in testing wheats and flours. Several votes were required to complete the work begun in 1906 in the Mechanics' Building, Chemical Laboratories and greenhouses. In addition, there will be a new mammoth coal house, a storehouse for vegetables, new roof for main building, and an addition to accommodate 40 additional students. The total vote in capital account amounts to \$77,225.

TOTAL EXPENDITURE .- Apart from capital account, the total appropriation for agriculture was \$505,453, as against \$460,557 in 1906.

IMMIGRATION.-The Governor's message announced that special efforts would be made during the year to assist farmers to procure help. The appropriation this year is \$55,665, an increase of \$17,000 over 1906.

AGRICULTURAL TEACHING .- A beginning is to be made in introducing agricultural courses in half a dozen high schools; \$6,000 was provided for the pur-The intention, as announced, is to select pose. high schools. Teachers are to be provided by the Agricultural College. The courses have been arranged. The Government will grant \$1,000 to each school. Class work will be given, and experimental plots will be established. The teaching will be adapted to the agricultural conditions of the section in which the school is located.

COMPANIES ACT .- Hitherto, various special acts provided for the organization of cheese and butter manufacturing companies and co-operative fruit companies. All these have now been provided for in the new Companies Act. The companies already organized will be continued, but hereafter all companies must be incorporated under the new act of the Provincial Secretary's Department. The methods of incorporation will be simple and the fees low. The aim is to have them all registered in one place, have all report to the one office, and thus keep them somewhat uniform. It has been felt that the modes of organization were somewhat crude and uncertain, and that the farmers' organizations should receive as much consideration and protection as the more ambitious organizations of larger capitalization

VETERINARY SURGEONS .- According to statute no one is allowed to use the title "veterinary surgeon" unless he holds the diploma of the Ontario Veterinary College, or the certificate of the Ontario Veterinary Association, which practically amounts to the same thing. Occasionally a petition is presented to the Legislature to permit someone to use this title who has not taken the course at the Ontario Veterinary College, the ground being that of experience. At the recent session two bills were presented and passed, authorizing Jerry Brisson and Thomas Johnston to practice as veterinary surgeons. Announcement was made during the past year that the Government propose to take over the Ontario Veterinary College and conduct it along lines similar to those of the Ontario Agricultural College. Nothing was presented to the Legislature, as the announcement was made that Dr. Andrew Smith will complete the education of the pres ent classes, but students entering in October, 1907, will be required to take a three years' course, and the Government will take over the work in 1908. Terms are now being arranged between the Government and Dr Smith, and it is expected that the new Principal will be selected during the coming summer.

PUBLIC SCHOOLS .- One of the mo

to complete their general plan. Toll roads may be purchased and included. Villages and towns (not separated) may be assisted in improving roads that form part of the plan. The plans are to be approved by the Government, and the by-law also by the ratepayers. Then the Government is prepared to pay onethird of the cost of the improvements.

SUGAR BEETS .- The bounty of \$75,000 a year has been paid to the beet-sugar manufacturers for the past five years. The first act (1902) provided for three years, then an extension took place for two years more. Urgent appeals have been made to continue this bounty. It was laid before the Minister, and after full consideration the decision apparently reached not to continue it, as nothing appears in regard to it, either in legislation or estimates.

CATTLE POISONING .- Hitherto, Provincial coroners have had the power to hold inquests to investigate the causes of fires, but it was found difficult to gather evidence as to the poisoning or injuring of live stock. An amendment has been passed, whereby the same officers "shall have the power to investigate cases of maiming or suspected poisoning of horses, cattle, and other domestic animals." The proper course now to pursue is for the owner thus injured to apply at once direct to the Attorney-General.

TOTAL VOTES .- For the first time the appropriations have crossed the seven million dollar mark-to be exact, the appropriations for all purposes this year amount to \$7,044,382.28. The Provincial Treasurer reported cash balances on hand on the first of January, \$3,497,240, and he estimated receipts during the year amounting to \$7,612,287. It will perhaps interest the readers of this article to know where this money is to come from. Here are the principal items

Dominion Subsidy\$	1.339.287
Interest on Trust Funds and Investments	170,000
Timber Dues, Bonus and Ground Rents	1,715,000
Crown Lands, Leases and Sales	
Royalty and Crown Mines	200,000
Mining Licenses	100,000
Cobalt and Kerr Lakes	1,155,000
Taxes on Corporations	640,000
Liquor Licenses	550,000
Succession Duties	700,000
Provincial Secretary's Dept. (charters, etc.)	175,000
Public Institutions	135,000
Central Prison Industries	60,000
Agricultural Department	74,000
Education	45,000
Other Revenue	287,000

\$7.612.287

# DALGETY BROS.' CLYDESDALE SALE.

The 18 imported Clydesdale fillies, advertised by Dalgety Bros. to be sold by auction at London, Ont., on April 24th, was attended by a medium-size but good-bidding crowd. The fillies were a real good lot, such as this firm handles, and although a number of them were quite thin, and nearly all looking gaunt from their long and tedious journey, they were readily taken at fair prices; the highest price, \$600, being paid by Prof. Day, of the Ontario Agricultural College farm, for the grand and typical bay four-year-old, Sunflower, by Martinet (10594). Following is the sale list

Sunflower, foaled 1903; Ont. Agri. College, Guelph.\$600 Blackhall Maid, 1904; D. McCrae, Glencoe..... 405 Peggie II., '03; A. B. McDonald, Appin .... Flowerdale, '04; John Stewart, Springbank. Miss Ramsay, '04 ; John McLean, Aldboro ..... 275 Corskie Bridesmaid, '03; Wm. Boyle, Lucknow ..... Miss Ironside, '04 : Col. Curtshore Londo

FOUNDED 1866

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This provides for a full and complete enforcement of the Scale Act by the local authorities. It is ander stood that more municipalities are every year appears ing inspectors. This is the most promotion the work whereby the scale may be kept in sheet

HONEY .- Last year the Foul Brood Ast and amount ed, permitting the Minister to appoint spectors as he thought necessary to end The grant has been increased to \$1,200. has explained that he intends to appoint six inspector to cover the Province, so as to expedite the work. Th

creases in grants occurs under the heading of Public and Separate School education. In 1906 the grant was \$629,178; this year it is \$896,667. The Act amending the Public Schools Act sets forth a new basis for the payment of salaries of teachers in rural public schools. In every school section whose average equalized assessment for the three preceding years has been at least \$30,000, the head teachers must be paid at least \$300 per year, and every assistant at least \$200 per year. In every school section of an organized county having an assessment of less than \$30,000, and in every school section in a territorial or judicial district, the head teacher must be paid at least \$150, and every assistant at least \$100 per year. The townships are required to raise the amounts to pay these salaries. The counties raise in addition an amount equal to the grants paid by the Government. It will be seen that the regular grants to public-school work are this year very largely increased. The regulations of the Department which are authorized by the School Act provide that the Government pay 40 per cent. of any salaries in excess of the minimum salaries above stated (\$300 and \$150) up to \$600; also, an unconditional grant of \$15 for each section, and a grant for equipment and 1904. \$118,000; 1906, \$178,000; 1907. \$380,000.

There are other increases ; for instance, the grants otimuation classes have been increased from \$32. \$10,000. There is a grant of \$5,000 for the

ID LOTADS. The Minister of Public Works input through the House an Act, appro-

in the interiore, of , con. Gartshore, London	OIU
Lady Perth, '04; John Stewart	340
Lady Rose, '05; C. B. Fitzgerald, Rebecca	230
Lady Overton, '04; Wm. Boyle	315
Lily of Hilton, 1897; Wm. Boyle	305
Lot 12, '03; Walter Nixon, Arva	375
Lot 18, '04; Chas. Cundick, Watford	305
Lot 14, '01; P. A. McDevitt, Alvinston	
Happrew Fancy, '04; John Stewart	290
Minnie, '03; Jas. Cobban, Middlemiss	275
Roving Lass, '04; Hy. Seargeant, Bellwood	300
Miss Maggie ; Walter H. Brownlee, Aughrim	300
18 fillies sold; average, \$334.	

Prof. Andrew M. Soule, a Canadian, who has distinguished himself in public service in the United States, has resigned his position as Dean and Director of the Virginia College of Agriculture, to become head of the new agricultural college at Athens, Georgia, at a salary of \$5,000 per annum. He will also have charge of the State Institute system, and advise in the management of the new State agricultural high

The Government at Ottawa have appropriated \$15,000 to connect the Central Experimental Farm by electric railway with the city. It is proposed to extend the Ottawa street railway tracks along Wellington to Preston, and then down that street to the Farm. The move is a good one. Heretofore when a visitor to the National Capital inquired of a citizen or policeman the way out to the Experimental Farm, he was lugubriously told that he might go either of two ways He might go to the end of the car line, and then walk a mile, or if he preferred he could take a short cut

towns (not roads that be approved y the rateto Pay one-

a year has for the past for three years more, his bounty, ll considero continue in legisla-

cial coroninvestigate to gather live stock. same offie cases of attle, and se now to y at once

appropriaark—to be this year Treasurer of Januuring the os interest nis money ns:

 $\begin{array}{c} 1,339,287\\ 170,000\\ 1,715,000\\ 267,000\\ 200,000\\ 100,000\\ 1,155,000\\ 640,000\\ 550,000\\ 700,000\\ 175,000\\ 135,000\\ 60,000\\ 74,000\\ 45,000\\ 287,000\\ \end{array}$ 

# ,612,287

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ised by on, Ont., size but ood lot, nber of unt from ly taken paid by re farm, inflower, it :

ph.\$600 ..... 405 ..... 330 ..... 325

.. 275 .. 305 310

# MAY 2, 1907

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# THE HARD-EARNED MONEY OF THE FARMER

If you are farming for the money you make out of it, then you want to keep that money in a safe place. After you have worked hard for your money and your group have

your money, and your crops have escaped all risks, you should make the proceeds of your crop safe and solid. That is what you will do if you

deposit your money in

# THE BANK OF TORONTO

Interest is paid on all savings accounts four times a year.

THE BANK OF TORONTO Incorporated 1855.

# MARKETS.

# TORONTO. LIVE STOCK.

Receipts of live stock at both City and Junction markets last week were liberal, so much so as to cause prices to be easier. The quality was generally good at both markets, but not any better than they should be at this season of the year. Trade in shipping cattle was slow, owing to shortage of vessel space. Butchers' classes were a little easier owing to large supplies. On Monday, at the Junction, receipts were light, there being only 758 cattle. Exporters were dull at \$4.90 to \$5.25, bulk selling at \$5.10 to \$5.15. Butchers' firm, at quotations given below.

Exporters.—Prices ranged from \$4.90 to \$5.35, but few got the latter price, the bulk selling for the week at \$5.90 to \$5.15. Export bulls sold at \$3.75 to \$4.25 per cwt.

Feeders and Stockers.—Trade in feeders and stockers has increased, several dealers having bought large numbers. John Sheridan got about 600 of good quality for his ranch at Coboconk. But all dealers are looking for good quality, and common-bred steers are slow sale. Steers weighing from 1,000 to 1,050 lbs., \$4.35 to \$4.60; steers 1,100 to 1,200 lbs., \$4.70 to \$4.85; good steers, 800 to 900 lbs., \$3.90 to \$4.12½ per cwt. Stockers sold from \$3.50 to \$3.75.

Milch Cows.—There was a moderate trade in milkers and springers at prices ranging from \$30 to \$55 each, the bulk selling at \$40 to \$50.

# THE FARMER'S ADVOCATE.

there were few in each class that could really be classed as good, in comparison with the numbers offered. A few choice heavy-draft horses sold from \$200 to \$275 each. General purpose horses are in demand. Burns & Sheppard quote first-class drafters as selling from \$200to \$275; general purpose and express horses at \$160 to \$225; best quality carriage horses, \$250 to \$300 each; common ordinary drivers, \$100 to \$135; first-class, well-trained drivers are worth \$200 to \$259 each, and hard to be got at these prices.

### BREADSTUFFS.

Wheat—No. 2 white, 73c.; No. 2 mixed, 72c., No. 2 red, sellers at 73c.; Manitoba No. 1 Northern, 92c. bid at North Bay. Corn—No. 3 yellow, 52c. bid, Toronto. Oats—No. 2 white, 39%c.; No. 2 mixed, 38c. bid.

Rye-No. 2, 60c. bid.

Barley-No. 2, 53c.; No. 3X, 51c.; No. 3, 50c.

Peas-No. 2, 78c. to 80c. Buckwheat-56c.

Bran-Scarce, at \$23 to \$24, sacks included, at Toronto.

Flour-Manitoba patent, \$3.85, track, Toronto; Ontario, 90 per cent. patents, \$2.67; Manitoba patent, special brands, \$4.50; strong bakers', \$4.

COUNTRY PRODUCE.

Butter--An easier feeling prevailed, especially for choice dairy pound rolls, as receipts have been much larger, causing a drop of 2c. per lb. in this grade. Creamery, 29c. to 30c.; creamery boxes, 27c. to 28c.; dairy pound rolls, 24c. to 25c.; tubs, 22c. to 23c.; bakers' tub, 19c. to 20c.

Eggs-Market firm, at 17c. to 17½c. Cheese-Market steady at 14c. for large; twins, 14½c.

Honey—Supplies light; prices steady, at 12c. for strained, and \$2.60 to \$2.75 per doz. for combs.

Evaporated Apples-9c. per 1b.

Potatoes—J. J. Ryan, who received 5 cars last week of New Brunswick Delawares, reports car lots as worth from 95c. to \$1.60 per bag.

Poultry-Supplies were light. Yearling chickens, 15c. to 17c. per lb.; spring chickens. 30c. to 40c. per lb.; Mr. Stewart, of Stouffville, Ont., brought in 50 pairs of springers, 2½ to 2½ pounds per pair, sold wholesale at \$1.25 per pair; turkeys, 15c. to 18c. per lb.; old hens, 12c. to 14c. per lb.

Hay-Baled-Market strong, at \$12 to \$13 per ton for No. 1 timothy.

Straw-Baled, \$6.50 to \$7.50, by the car, on track at Toronto.

SEEDS.

There is a good demand for seeds from farmers, at following prices for re-cleaned seed: Red clover, \$14.50 to \$16.50 per 100 lbs.; alsike, \$10.50 to \$13 per 100 lbs.; timothy, \$5 to \$7 per 100 lbs.

HIDES. . T. Carter & Co., 85 Front street, MONTREAL.

Advices from England show that the market for cattle is weak. Prices are considerably lower than a week ago and trade is reported slow.

The approaching opening of navigation is occasioning somewhat more activity, but, at the best, the quantity of space booked from the port of Montreal for the month of May is unusually small. There has been a little demand from American exporters for sailings from Portland, and quite a little space has been booked from there to Liverpool at 27s. 6d., for May. All the May space, to London, on one line of ships, has been taken. Some Glasgow space has also been let at 35s., some Liverpool at 32s. 6d.. and Bristol, 25s.

Cattle—In the local market choice cattle brought  $5\frac{1}{2}$ c. to  $5\frac{1}{4}$ c., fine 5c. to  $5\frac{1}{4}$ c., good  $4\frac{1}{2}$ c. to 5c., medium  $3\frac{3}{4}$ c., to  $4\frac{1}{2}$ c., and common down to 3c. Really choice calves sold at \$7 to \$10 each, but there was a considerable number of poor animals at \$3 to \$5. Sheep and lambs were scarce, sheep being  $5\frac{1}{2}$ c. to 6c. per lb., yearlings  $6\frac{1}{2}$ c. to 7c., and spring lambs \$4 to \$6 each.

The market for hogs was steady at the recent decline. Offerings rather light, owing probably to the lower prices, but the scarcity had a steadying effect on the downward course of the market. Prices are now 7c. to 7½c. per lb., for best stock, off cars.

Horses—There is practically no change in the market for horses. Demand is fair and the opening of navigation is causing increased activity. Prices are steady at: heavy-draft, 1,500 to 1,700 lbs., \$250 to \$300 each; light-draft, 1,400 to 1,500 lbs., \$200 to \$250 each; express, \$175 to \$225; common plugs, \$75 to \$125, and choice driving and saddle animals, \$300 to \$500 each.

Dressed Hogs and Provisions-Demand for dressed hogs continues excellent. Supplies were not quite so large as during the previous few weeks, but they were sufficient for the demand. Sales of fresh, abattoir-killed stock were made at 9ªc. to 10c. There is an excellent demand for smoked meats of all kinds and prices continue practically unchanged, at 13c. to 131c. per lb. for hams of 25 lbs. and upwards, 14c. to 141. for 18 to 25 lbs. weights, 141c. to 151c. for 12 to 18 lbs., 15 c. for S to 12 lbs. Choicest smoked bacon is 15c. to 16c. ; choice, 14c. to 15c.; inferior and green and salt bacon, 12c. and down to 10 tc. Barrelled pork is \$20.50 to \$24.50 per bbl., and lard, 91c. to 101c.

Maple Products-There seems to have been a heavy make of syrup and sugar. Receipts of both have been larger the past few days than at any time this season, last week having been very favorable for the sap. The long spring has been responsible for the large make. Sales of syrup are being made at 51c. to 6c. per lb., in kegs, and at 61c. to 7c. in tins. Sugar is selling at 9c., some the dark and inferior stock selling at 8c. Demand is fair and supplies appear to be large. The market is easier than a week ago. Potatoes-The market for potatoes shows very little change. Supplies are fair and there is a moderate demand throughout the market. Carloads of mixed stock, mostly white, were bought at 68c. to 69c., on track, per 90 lbs., but the general range is from 62c. to 65c. for reds and 68c. to 71c. for whites, although some of the latter range up to 75c. These are being sold at about 80c. to 85c. for reds, bagged and delivered into store, in a jobbing way, and at 85c. to 95c. for whites. Eggs-Dealers appear to be arriving at the conclusion that eggs are going to be a luxury this season. It would seem that 16c. is being paid at country points, in the west, and that purchases cannot be made in the vicinity of Montreal at a great deal under 17c.; probably 161c. is a general figure. In the city, 17c. is quoted by some, though 171c. is more frequently the price, this being for seconds. Dealers are taking the choice, large eggs out of the straight receipts and putting them away and selling the smaller stock. Fresh, straight receipts would not be sold at less than 18c. Deshows a considerable improvement. Dealers, profess to believe that by the end of the week there will have been another break in the market and that 20c. will represent values. This seems somewhat like an attempt to force the pace, a result of which action is frequently the opposite of that desired.

Cheese—There is very little interest in the market for cheese. Cables to the other side have met with no response, and the market is now lower than it was a year ago. At the moment, it would be impossible to make sales at more than  $11\frac{1}{2}c$ . and  $11\frac{3}{4}c$ . for new cheese

Flour and Feed—The situation in the market for feed is more acute than ever. Almost no bran or shorts are to be had and millers will only sell to those who purchase a certain proportion of flour. For Manitoba shorts, on spot, fully \$23 and \$24 per ton, bagged, has to be paid, while for bran, \$25 to \$26 is charged.

Grain—The market is stronger than a week ago and prices are about  $\frac{1}{2}c$ . per bushel higher, at  $43\frac{1}{2}c$ . to 44c. for No. 2,  $42\frac{1}{2}c$ . to 43c. for No. 3 and  $41\frac{1}{2}c$ . to 42c. for No. 4, store, for local account. There is practically nothing else doing in grain in the local market.

Hay and Hayseed—\$13.50 to \$14 per ton for No. 1 timothy, \$12.50 for No. 2 and \$11.50 for clover. Demand for all kinds of hayseed is very active and the market is firm all round. Dealers are selling timothy at \$5.50 to \$7.50 per 100 lbs., Montreal, red clover at \$16 to \$17.50, white clover at \$14 to \$20 and alsike at \$13 to \$16.

Hides—The market for hides is easier. Demand is quite dull and the quality of the beef hides is very poor. Dealers are paying 11c.; 10c. and 9c. per pound for Nos. 1, 2 and 3, respectively, Montreal, for country take-off and  $\frac{1}{2}$ c. more than these prices for city hides. They are selling to tanners at  $\frac{1}{2}$ c. advance in each case. Calf skins are steady, at 13c. per lb. for No. 2 calf and 15c. for No. 1. Sheep skins are \$1 each and spring lambs 10c. Horse hides and tallow, steady.

# BRITISH CATTLE MARKET.

London.—Canadian cattle are easier at 11c. to 12c. per lb.; refrigerator beef is  $8\frac{1}{2}c$ . to 9c. per lb.

# TRADE TOPIC.

# A RARE GOOD THING IN EARLY POTATOES.

Those who are looking for a really good thing in early potatoes should not miss the chance offered to procure a stock of seed potatoes from Thos. Bousfield, of Carlisle, Ont., who is advertising the variety called Snider's Best Early. Mr. Bousfield is in no sense a promoter, but a plain, practical farmer, who has got hold of a very superior variety, and is letting his fellow farmers

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priated rm by to exington Farmvisitor policee was ways a walk t cut Veal Calves.—Deliveries large; prices easy at \$3.00 to \$6.50 per cwt., the bulk selling from \$4 to \$5 per cwt.

Sheep and Lambs.—The North American Live Stock Co., of Port Arthur, were represented on the market by Mr. Jaffray, who bought 800 lambs and 115 yearlings of extra quality. This consignment of sheep and lambs, which were of the finest quality, sold readily at \$8 per cwt., although they had been shorn before shipment. Export sheep sold at \$5 to \$5.75 per cwt.; spring lambs sold at \$5 to \$8 each.

Hogs.—The Davies Packing Co. quote selects at 6.40 and lights at 6.15 per cwt., fed and watered at Toronto.

Horses .- The horse market at Toronto is in a flourishing condition, so much so that two more sales stables are promised in the near future. The Union Stock Yards Co. at Toronto Junction are negotiating for the erection of a large stable and arena, where auction sales of horses will be held two or three days weekly. David McDonald, of the firm of Mclionald & Maybee, wholesale cattle dealers, is arranging to erect one of the most up-to-date auction sale stables on the continent, in conjunction with the city market. Mr. McDonald contemputting up buildings to cost in the orhood of \$40,000 on Stanley adjoining the city market, if percan be obtained from the city. horses in all the different classes

Lis were in excellent demand, but

have been paying the following prices: Inspected hides, No. 1 steers and cows, 10 ½c.; No. 2 steers and cows, 9 ½c.; counttry hides, cured, 9c. to 9 ½c.; country hides, green, 8c. to 8 ½c.; calf skins, No. 1. city, 13c.; calf skins, No. 1 country, 11c. to 12c.; sheep skins, each, \$1.65 to \$1.75; horse hides, \$3.50 to 3.75; horse hair, No 1, per lb., 30c. to 32c.; tallow, per lb., 5 ½c. to 6 ½c.

### CHICAGO.

Cattle.-Common to prime steers, \$4 to \$6.85; cows, \$3.25 to \$5; heifers, \$3 to \$5.25; bulls, \$3.40 to \$4.60; stockers and feeders, \$3 to \$5.25.

Hogs.—Choice to prime heavy, 6.55 to  $6.57\frac{1}{2}$ ; medium to good heavy, 6.50 to  $6.55\frac{1}{2}$ ; butchers' weights, 6.55 to  $6.57\frac{1}{2}$ ; good to prime, mixed,  $6.52\frac{1}{2}$  to  $6.55\frac{1}{2}$ ; packing, 6.25 to 6.55; pigs, 5.50 to 6.50.

Sheep and Lambs.—Sheep, \$4.25 to \$6.25; yearlings, \$5.25 to \$7; lambs, \$6.75 to \$8.79.

# BUFFALO.

Cattle.—Prime steers, \$5.75 to \$6.25. Veals.—\$5 to \$7.75.

Hogs.—Heavy, \$6.75 to \$6.95; mixed, \$6.95; Yorkers, \$6.90 to \$6.95; pigs, \$6.85 to \$6.90; roughs, \$5.90 to \$6.05, Sheep and Lambs.— Sheep steady; lambs, \$5.50 to \$7.75. mand is good. Butter—Demand for new milk butter is good. The market has experienced a decided break since the beginning of last week, prices being now 24½c., as against about 32c. At present figures, demand

know of it through our columns. Members of "The Farmer's Advocate" staff saw an exhibit of these potatoes at Toronto Exhibition last fall, and we believe them to be all he claims. The variety has been very highly commended at both Guelph and Ottawa as an unusually productive, strong-growing, vigorous, early variety. If you have not already corresponded with Mr. Bousfield do so at once.

### COSSIP.

SALE DATES CLAIMED. May 9th.-W. J. Thompson, Mitchell, Ont., Shorthorns. Dispersion. May 23rd.-G. A. Gilroy and G. H. Manhard, Holsteins, at Brockville, Ont. May 24th.-Jas. I. Davidson, Balsam, Ont., dispersion sale of Clydesdales and Shorthorns.

Mr. John Campbell, Woodville, Ont., writes: "The choice young Clydesdale stallion, three years old on May 20th, recently advertised in "The Farmer's Advocate, has been sold to Mr. S. J. White, of Whiteside, Simcoe Co., Ont. The purchaser is to be congratulated on securing one of the very best bred Clydesdales in America; a real good individual, with a gilt-edged pedigree, is the combination secured, and this horse should prove a prepotent sire of the right class of stock."



# Like, Literature and Education.

[Contributions on all subjects of popular in-terest are always welcome in this Depart-ment.]

# DEMENTIA AMERICANA.

An observant and thoughtful Canadian, after a somewhat extended residence in the United States, tells us of two very marked changes passing over the spirit of the dreams of the Republic. So unmistakable is the strength of these tendencies that they may be ranked among the most hopeful signs of the times on this continent.

First is the waning idolatry of wealth and wealth-getting. One of the premonitory symptoms of this is the phenomenal and continued appreciation of Wagner's "Simple

Life," which a few years ago struck a responsive chord in the overwrought and luxury-surfeited heart of the American people, in contrast with which that remarkable little book was the very an-To-day we tithesis. see millionaires vieing with each other in placing their accumulations upon the altars of humanity. Some people are worrying about their motives, but these we need not stay to analyze. There is a distinct reversion to higher ideals, and a slump in public esteem of the unscrupulous money-making machine.

Secondly, there is a most wholsome revulsion of sentiment among the thinking

# VARIOUS FISHERMEN.

The first of May is the beginning of a new year for the fisherman, and nobody makes so many or so sincere good resolutions. On the last night of the piscatorial year, instead of wasting time waiting for the midnight bells and lying abed next morning, he retires with the hens, in order to begin his "new year" with the Indeed, that punctual riser is sun. for once given an example; the angler is afoot in the gray morning twilight, hurrying for his particular hole "-a spot he has had in mind for weeks. Alas! standing in the one spot that commands it is his neighbor, Turner, who bids him goodmorning with restrained cheerfulness. By sunrise a wavering procession of rods is moving along the creek. The fishhook appears to be the insignia of equality. One may see an aristocrat in long rubber boots and wicker creel, throwing into the same pool with the bare-legged youth who fishes

cal competition with his victim in the latter's chosen element.

I have never seen him fishing, for, like others of his craft, he is excessively shy. Once I was nearly in time-just too late to see the fisherman, whose wet footprints on a rock and a half-eaten sucker showed how recently he had gone away. The ripples had not entirely died from the surface of the water. But another June day, on the Pagwachuan River, I had better luck. The river was fine and broad, with a current that carried us rapidly down the forestway when assisted by our paddles. A long way down stream there appeared two floating black spots. Ducks? They were not behaving like ducks ; every now and then they disappeared, popping up again somewhere else. We had ceased paddling, and our Indian was silently diagnosing the situa-tion. At last, in a whisper, " Neeg-yig !"

Ah ! otters. We w now close enough to recognize the u and watch

Little wonder the otter is the premier fresh-water fisherman. Long generations of application to his profession has made him a specialist in aquatics. His legs have shortened up, broadened, and grown tremendously powerful. No doubt the stout, tapering tail is for speed, too; it is almost thick enough to be considered a prolongation of the bodylike an alligator's. The dainty, conical teeth might seem unserviceable until one notices how sharp they are; no fish is too slipper for those awl-like points. The bear does a little fishing in

the first of the season, but he is only a novice, and is satisfied with tame sport. He is not particularly fond of the water, and fishes rather from necessity than choice. In late April the most noticeable feature about a black bear is his appetite. At about the same time the suckers are possessed of an insane determination to go up-stream at all costs. They push up rapids, flounder across shallow

places, and, apparently satisfied with this unusual display of energy, lie up in some quiet back-water. Muquah, who knows something about this spring madness, picks out a nice place where a log has fallen across a shallow place, fixes himself com-fortably, and leans over admiring his reflection. One big paw hangs idly, the claws trailing in the current. Presently a sucker comes floundering along, is scopped out, along with a pailful or so of river water, and begins a heel-and-toe dance on shore. The big fisherman scrambles up rather hastily, and eats his catch on the spot. Then operations are resumed. After a while, if his luck is good, he grows fastidious, and selects only the dainty parts. The soft throat is bitten out and the remainder left for some needier body. At the end of a good afternoon's operations, quite a pile of mutilated suckers are left as crumbs from the feast. The bear, however, is a confirmed Jack-of-all-trades, and, as usual, not much good at anything. If fishing becomes difficult, he resorts to ripping open dry logs and licking up the ants, at the risk of some day losing his teeth. For a clumsyfingered fellow, he is a champion berry-picker. In August, when the blueberries are ripe, he wouldn't gofishing under any circumstances. But the spectacular exponent of the gentle art is of quite another My first glimpse of him was while travelling down a shallow river expansion back of Kenogami. It was a quiet, muddy place, full of reedsa splendid place for pikes to take a snooze of a hot afternoon. I don't know whether they actually fall asleep or not, but for hours they will



and self-respecting masses against the mercenary and low-toned press, with its indecencies in print and picture. They have come to discern at last, with sure intelligence, the menace that a vitiated journalism is to the youth and future of the state, by undermining the work of the home and the school.

The Government of Canada, through with a maple pole and strings his the new international postal convention, has taken a position designed to check the lately increasing inflow. and, fortunately, the press of Canada has kept itself singularly free from these cheap and objectionable features. No parent, no citizen, who has any regard for the future of his home, the education of his family, and the good of Canada, will permit the "yellow" stream to cross the ageous protest at this juncture in the decease is skillfully conducted by country's progress will exert a most

# And Fisherwomen, Too.

catch on a willow gad.

They are a heterogeneous lot, and yet one has only to visit the woods to find a stranger tribe of anglers, employing the strangest of outfits and methods. With them, open seaof the ice, but, as elsewhere, there are a lew who laugh at the law. At all events, the first catch of the seacerned, it doesn't much matter; his

every movement. What litheness and sinuosity of motion ! They were playing in the water, diving and reappearing rapidly. Their sniny. wet bodies undulated in and out with a swiftness and ease suggestive of a serpent. At times there seemed neither head nor tail, but a writhing succession of black folds. With scarcely a pause, the two kept up this intricate serpentine water game. quite obvious, seemingly, to their surroundings. But we were floating up close now. One of the players paused and turned a square black head in our direction for a moment. then disappeared, and the game continued. Only for a moment, however, and this time they both stared uneasily into a grim pair of tubes.



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he is only ith tame rly fond ther from ate April about a At about are posnation to 'hev push shallow oparently this unof energy, ie quiet Muquah, omething ing madt a nice log has shallow self comeans over eflection. hangs trailing Presr comes ong, is ong with of river egins a ince on g fisher-es u p , an d on the

### MAY 2, 1907

# THE FARMER'S ADVOCATE.

lie still, and, when disturbed, dash off excitedly, as if suddenly awaken-This afternoon was a splendid one, and, no doubt, a good many siestas were in languid progress. The spruce forest kept off any breeze that may have been stirring, and the sun poured down ardently. My canoeman had rudely disturbed one sleeper by jabbing at him with his paddle, when somewhere overhead came a high-pitched "he-he-he," like an unaccessful attempt at mirth. It took a moment for the eye, roving across the sky, to define anything in so immense a space, but at last it seized upon a black speck sailing ever so high above the tree-tops. Like a tiny black satellite, obedient to some invisible cosmic force, it described slow, wide circles. The circles gradually carried it down the river; our eyes, following the wheeling speck, descried another smaller one farther away. Presently the two were together, swinging in great curves, their paths crossing, approaching and retreating, rising and sinking, as if at the will of creatures as buoyant as the atmosphere. I was not aware then that these airy circlings were a feature of domestic economy-the daily patrol duty. Yet, at their incredible height, the two hawks were beating up and down their fishing ground, scrutinizing the water away below for prey. No doubt from that elevation the river looked very shallow, and shadows, reeds or fishes appeared as if covered by a glass plate. Such, at least, is the impression given the human eye on looking from a height into water well illuminated by

The two were again separating, one growing faint in the distance. The other was coming our way, growing larger with every great circle. It was descending, too. The motionless wings and spread tail grew dis-It would soon pass overhead. tinct. But at the end of a long, silent glide the great wings fluttered rapidly, as if in distress, and the body poised, stationary, for a moment. Then the wings half closed into a flattened crescent, and, like some heavy, inanimate object, came shooting downward, gaining terrific velocity. Against the dark forest background the eye lost track of its meteor-like fall, but almost instantaneously a splash of white spray rose high above the reeds. A great flapping of powerful wings succeeded, and the fish-hawk, no longer buoyant, struggled upward, holding in his claws something that glinted in the sun.

the sun.

Of the Geological Survey, Canada.

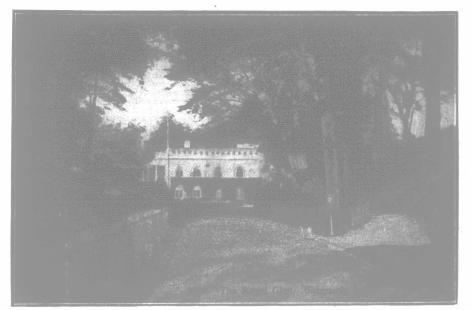
C.,

OUR ENGLISH LETTER.

mous seaside resort, and except in pily, no serious harm was done, althe parts of Old Sidmouth which retain old-time features, it has a family likeness to similar places all over this sea-girt isle.

There is now a fine promenade, extending from one end to the other, and a sea-wall to protect the houses facing it from the ravages of the sea, the calamity which once overtook it, as long ago as 1824, not having been forgotten. The story goes that it was in one of the cottages afterwards washed away in which lived the famous Mrs. Partington, who was credited with trying to keep out the Atlantic with a mop. She was excellent at a slop or a

though the incident caused much comment at the time, and is recorded as an incident in the early history of Victorian days. The residence in Sidmouth of the Duke and Duchess of Kent brought many royal and notable visitors to the then pretty little village, whose advent has not been forgotten. Probably in those longago days royal ears heard the voice of the town crier, arrayed in his crimson coat, white waistcoast and cocked hat, prefixing his announcements with the "Oyez! Oyez!" of his office. I heard the town crier during my little visit to Sidmouth, but he was in the everyday, unpic-



### The Royal Glen, Sidmouth.

puddle, but should never have meddled with a tempest.

The exact age of the fine old parish church is not known, but there are records which prove it must have been in existence before 1259. It has been restored from time to time, and, as in so many of the churches of Great Britain, the various styles of architecture introduced in pillars, windows, rood-screens, etc., mark various stages in its history.

The sextoness, who showed me over the church, pointed with pride to a very fine window which the late Queen had placed over the chancel in memory of her father, the Duke of Kent, who had died at Sidmouth on through lanes, the banks of which

turesque garments of 1907, and I must freely contess I could not understand one word he uttered after he had stopped ringing his most unmusical bell.

The corner of the Sidmouth Esplanade in the picture is a bit of the old village, and close to the Royal Glen. The road behind the house leads over the cliff to some lovely places which I longed to visit, had time permitted, and had my purse limits not vetoed my desires. I had already treated myself to one delightful drive round Sidford and across the bridge which arched over the silvery little river "Sid," and



The Quiet Hour.

### BE COURTEOUS. -1 St. Peter iii.: 8.

759

Courtesy is not a falsehood or grimace: it need not be such .-- " Bending before men," is a recognition that there does dwell in that presence of our Brother something Divine.-[Carlyle.

In the R. V., the words I have chosen as the text are translated,  $^{\prime\prime}$  Be  $% ^{\prime\prime}$  . humbleminded." So, also, where it is stated-in Acts xxvii-that a Roman centurion "courteously entreated Paul," the revised translation is "treated Paul kindly." It would seem, then, that true courtesy includes humility and kindness, and it is a grace well worth cultivating. The Roman soldier's unexpected courtesy and kindness to one of the prisoners in his charge is still remembered in his honor, long centuries after his acts of bold daring have been forgotten by the world. And other acts of courteous kindness still stand out in bold relief, though performed many centuries before Rome was even thought of. Look at that tableau in Genesis xxiv. An elderly, travel-stained man, hot and tired and thirsty, goes up to a fair young girl and says: " Let me, I pray thee, drink a little water of thy pitcher."

How graceful and kind is her ready response as she quickly lets down her pitcher upon her hand, saying "Drink, my lord;" and, as if that were not enough to satisfy her desire to show hospitality, she adds, "I will draw water for thy camels also, until they have done drinking." And this was not a mere Oriental parade of grand and meaningless words, for "she hasted, and emptied her pitcher into the trough, and ran again unto the well to draw water, and drew for all his camels." Though that little scene was acted about 4,000 years ago, it is not, nor ever will be, out of date or old-fashioned. Example is always more influential than precept, and Rebekah little thought that her sweet courtesy to a dusty stranger by the well would inspire other maidens to do likewise until the end of time. If she had not been humbleminded, thinking of the needs of another rather than of the beauty of her own action, her courtesy would have been only super-ficial, and would have had no " salt " to preserve its freshness during all these long centuries.

In the second chapter of Exodus, we find another picture of graceful courtesy. Seven shepherdesses fill the troughs to water their flocks, and some rude, uncourteous shepherds interfere and drive them away. Then Moses proves himself to be a gentleman, keeping his courtly manners even in the wild wilderness, for he instantly stands up in defence of the weak. He delivers them out of the hand of the shepherds, draws water for them and helps them to water their flocks. Now it is not for nothing that these and similar pictures of courtesy are given a place in God's Great Book. Courtesy is not only a matter of birth, breeding or education; and it should always be more than "skin deep." Real courtesy-including humility and kindness-is a very important part of Christian character. It springs naturally from the "recognition that there does dwell in that presence of our Brother something Divine."

After a luck is fastidts only S. The bitten mainder needier end of a s operapile of ers are rom the r, hownfirmed ual, not fishing to ripne day clumsy-



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l have been more or less on the tramp for the last few weeks, Teignmouth being a very good center from which to reach the many places of interest to be found in this lovely County of Devonshire. Wherever possible, I have tried to obtain for our Home Magazine pictures of the spots I have visited, in the hope that space may be found for them. I will begin my story by telling you of my trip to Sidmouth, which it actually took me two hours to reach, having to take cross lines and change at junctions, although its coast, as well as the white cliffs of historical Lyme Regis, a little farther on, can plainly seen from my window at Teignmouth. In the summer, when special trains, coaches and steamers are provided, all these places are rought closely into touch with one another, and are easy enough of access; but, after all, I think I prefer the more quiet, even though more circuitous route which an early-spring visit invokes.

### SIDMOUTH.

Sidmouth lies in a lovely nook, rounded by hills and facing the or, to be more accurate, the de bay, bound by Lyme Regis on of the nursery in which was sleeping one side, and Tor Bay on the her. It is fast becoming a fa- the future Queen of England. Hap-



### Esplanade, Sidmouth.

the 22nd of January, 1820, at "The Royal Glen," a picture of which I send. It is a very simple, unpretentious house, and is but little altered, except that the larger grounds surrounding it are public thoroughfares, since the infant Princess Victoria spent her first Christmas day there. The story goes that some schoolboys, shooting birds in an adjoining field, thoughtlessly fired in the direction of the house, and that one of the shots went through the window

were covered with verdure, and with that to crown my holiday, I had to be, and indeed was, quite content.

First College Graduate.--I hear you have a job. What doing ?

Second College Graduate.-Oh, running

"Like it?" "First rate; that is, until my emto have to associate with our social inferiors out of business hours."-[Life.

We sometimes see men and women who are good and honorable, and who yet bring discredit on their Christian profession by the roughness and rudeness of their manners-especially in the home They seem to think that circle. courtesy of word or act is out of place in the easy familiarity of the home atmosphere. They speak rudely or shortly to those they love best, though probably any stranger will be treated with courtesy and attention.

To cure this sin of discourtesy by outside means might result in a superficial polish, which would be little better than the former rudeness. But real Christian courtesy springs from within, being the errands and cleaning inkwells and so direct result of having the eyes open to see Him Who is always with us. Those who have learned to recognize Christ in everyone will find discourtesy almost imployer had the nerve to ask me out to possible. Think of the little children or his house to dinner. It's pretty tough the troublesome, noisy boys and girls who so often hear rough words addressed to them by those who love them best.

They may grow accustomed to being considered of little consequence, may care little for a slighting word or a hasty slap; but if God considers an act of courtesy to be worthy of a place of honor in His Word, surely He does not overlook the countless acts of discourtesy which seem to pass unheeded.

Our Lord gratefully accepted the precious ointment which was poured lavishly on His head and feet, and declared that this courteous attention should always be remembered by His Church. But the discourtesy shown by Simon the Pharisce was keenly felt by the 'loving heart of Jesus, and 'the Church can never forget that either. Simon neglected the customary signs of welcome which any honored guest had a right to expect. No water was provided to wash the weary feet, there was no kiss of greeting, and no anointing oil was poured on the head. Discourtesy to the King is no light offence on the part of a subject. It is a great mistake to fancy that a rude or unkind speech to a child is a matter of slight consequence. Our Lord's warning words bear witness to the gravity of the offence. "Take heed," He says, "that ye despise not one of these little ones." And He makes it very plain that any kindness or unkindness shown to a child is accepted by Him, for He says: "Whosoever shall receive one of such children in My Name, receiveth Me : and whoeoever shall receive Me, receiveth not Me, but Him that sent Me." If we see Christ in everyone, we cannot be discourteous.

Then we must always remember that a rude, unattractive Christian will tend to drive others away from Christ, making them dislike the very name of Christianity. And terrible indeed is the warning against dragging down Christ's little ones. "Whoso shall cause one of these little ones which believe on Me to stumble, it is profitable for him that a great millstone should be hanged about his neck, and that he should be sunk in Holmes says the depth of the sea." that our Lord's command regarding children-" Forbid them not ! "-must refer also to the "forbidding face," because children are great readers of faces, and " a face bright with looking unto Jesus must carry its impressions to those who look upon it. We may be unconscious of it. but if we have been on the Mount with God, others will see it. God works through features, and sometimes we are responsible for the impressions conveyed through our faces.

If we are often on the Mount with God, our eyes will be clear enough and our hearts pure enough to see Him every-As Christ is in His brethren where. here in the world, the least discourtesy to them must touch Him, and cannot be lightly regarded by those who love and honor Him.

Anyone can be polite to strangersthat fleeting courtesy requires little effort and deserves little praise. But to be bright and pleasant and courteous all day and every day, when other people are unreasonable or complaining, cross or disagreeable, rude or unkind, is by no means so easy. For true courtesy must go under the surface. To be rude in thought and put on a smooth, polite manner, is to be very untrue; and it is also generally very irritating to the other person, who instinctively feels that he is being smoothed down and caioled. We can generally feel each other's thoughts, and are not easily deceived by outside manners. As Christians we are especially bound to be kind to those who are not particularly attractive to us. ' If ye do good to them which do good to you, what thank have ye? for sinners also do even the same," says our Lord. To meet unkindness with cheery kindness, and to meet rudeness with winning courtesy-not once only, but continually-is to be sure of victory in the end, and no ignoble victory either. Love is stronger than hate, good can overcome evil, life must prevail over death. Enemies can, by persistent kindness. transformed into friends. As God sends His rain and sunshine to carry heating and life to the evil as well as the good. so His children must be ready to show kindly courtesy to all around them Those who do not seem to deserve. even appreciate it, may yield quite expectedly and turn towards the Sun of Righteousness whose light they see a ys reflected in a sunny, loving take cresy, like sunshine, may win then a containly coldness and discourses

never will. " By love serve one another," writes St. Paul, and humility grows in loving service; until to "serve one another " becomes a most glorious vocation, and we can understand how our Master and Lord was exalted by Hislife of lowly ministry. He is always ready to reach out with kindest courtesy to the meanest creature IIe has made; and how then can we venture to look down with lofty condescension or disdain on any of our brothers and sisters.

The only possible root of true Christian Courtesy is LOVE, which is the grand foundation as well as the crown of everything worth having.

Familiar acts are beautiful through HOPE

# About the House.

# RHUBARB AND ASPARAGUS.

Rhubarb Jam .- Six lbs. rhubarb, 6 lbs. lump sugar, and rind of 3 lemons. Put the rhubarb into preserving kettle with sugar. Mince the lemon rind, and add; keep stirring to prevent rhubarb 'from burning. When sugar is dissolved, let boil quickly for three-quarters of an hour, skimming well.

Stewed Rhubarb.-Cut into pieces about 3 inches long; cover with cold water, set on a moderate fire, and let come slowly to boiling point, but not actually hoil. Drain the water off carefully, not breaking the rhubarb, and to each pint of liquid add 1 lb sugar. Boil this till syrupy, then pour over the rhubarb. A bit of ginger-root may be boiled up with the rhubarb, if preferred. Rhubarb Marmalade .- Wash young rhubarb (but do not peel) and cut into inch lengths. Weigh, and to each pound al low & lb. sugar. Let stand over night. Place in a preserving pan, bring slowly to the boil, then boil an hour, stirring and skimming frequently. About 15 minutes before the boiling is finished, add for each quart the juice and rind of a lemon, the rind being peeled off thinly and cut into fine bits. Seal while hot. Rhubarb and Orange Marmalade .-- Four

pounds rhubarb and four oranges, with the juice of all and peel of two, 4 lbs. sugar, 1 lemon, 2 lbs. raisins. Prepare oranges by squeezing out the juice and cooking the peel in water till tender. Drain, and scrape out the white skin. Extract the juice of the lemon. Put rhubarb into a granite kettle, heat it slowly to boiling point; cook 15 minutes; then add sugar, juice, orange peel (cut fine), and raisins. Cook slowly until thick. The raisins may be omitted, if preferred. Rhubarb and pineapple also makes a delicious preserve.

Rhubarh Pudding .- Stew to a pulp, sweeten, and thicken with cornstarch-4 tablespoons to the quart. Let cool in a mould, and serve with cream and sugar. Conserve.-Chop thubarb rhubarb; add grated yellow rind and juice of 2 lemons, with 3 lbs. sugar, and let cook { hour, then add { lb. blanched and shredded almonds and 1 cup dried orange peel, and cook a second 1 hour. Delicious Rhubarb Pie.-Bake in 2 crusts the following mixture: One cup chopped and peeled rhubarb, 1 egg, 1 cup sugar, 1 rolled cracker, and butter, size of a walnut. Asparagus on Toast.-Boil until tender in salted water, putting in the large stalks first, and adding the small ones six or eight minutes later. Drain, lay on buttered toast, and cover all with a good cream sauce. Stewed Asparagus.—Break stalks in inch lengths, putting the tough bits on a plate by themselves. The the tough pieces in a bit of clean cheesecloth, and lay in the kettle with the tender asparagus and enough slightly-salted water to cover. Cover and stew gently until done. Throw away the part tied in the cheesecloth, which has only been put in to strengthen the juices; season



FOUNDED 1366

number of steps you save in a day—the ease with which you can prepare a meal! With the Chatham every ingredient and every cooking utensil you need in the preparation of a meal is right within reach of your hand and there is no constant running back and forth from kitchen to pantry for first one article and then another.

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should be as pure as you can make it, but it cannot be pure unless pure ingredients be used. "FIVE ROSES" Flour is made by methods which render it as pure as flour can be made, and the use of it to make your bread and pastry will give you more satisfaction and purer food than if an ordinary flour were used. "Five Roses" is the standard flour for purity the world over.

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# Current Events.

John D. Rockefeller has donated \$50,000,000 for the education of the Chinese.

Lord Haliburton, who was born at Windsor, N. S., in 1832, died in London, England, on April 21st.

Three hundred Japanese laborers, who were refused admission at San Francisco, have landed at Vancouver.

\* \*

\* \*

Owing to the exigencies of the grain-carrying trade, thirteen vessels will be added to the Upper-lake service this year.

A Canadian Indian, Thomas Longboat, has won the Marathon race of 25 miles at Boston, Mass., defeating 103 competitors.

Vladimir Poulsen, of Copenhagen, is said to have invented an entirely new wireless telegraphy system, better and cheaper than Marconi's.

It is rumored that a Latin union, supplemented by Great Britain, for the maintenance of the status quo in the Mediterranean, is in progress.

\* \*

Twenty million people in Russia must be supported by relief committees until the harvest. The famine is the worst that Russia has ever known.

The building at the corner of Lorne and Front Streets, Toronto, has been rented by the Britishers' Welcome League, and will be used as an immigrants' home. \* \*

A new anæsthetic called stovaine, which is injected into the spine, producing temporary paralysis below the point of injection, is being used in England for operations, in many cases in which, owing to great age or heart weakness, the use of chloroform might be dangerous.

. .

A serious fire, which caused damage to the amount of 3,000,000 francs, occurred at the French arsenal, Toulon, last week. It is suspected that the fire was the work of incendiaries, since the Government said to be a hotbed of revolutionary feeling.

\* \*

though publishers on both sides of the line will have to pay the full rates imposed by the new regulations, which come into force on May 8th. 1 4 1 4

THE COLONIAL CONFERENCE.

Judging by the attention which it has drawn upon itself, the Colonial Conference in London has surely been "a sight to make surrounding na-tions stare "-Botha and Jameson, who fought against each other in South Africa; Botha in the forefront, of the Boer war against Great Britain, yet to-day cheered at every point of his progress through Lon-don; Sir Wilfrid Laurier, French of blood, yet foremost among British subjects; representatives from the four corners of the earth, and all united in the interests of the great British Empire. The outcome of the Conference has been embodied in several resolutions, the chief of which are as follows: (1) That an "Im-perial Conference" is to be held every four years, "at which questions of common interest may be discussed and considered; as between His Majesty's Government and the Governments of the self-governing do-minions beyond the seas." The Prime Minister of the United Kingdom will be ex-officio President, and the Prime Ministers of the self-governing dominions, also the Secretary of State for the Colonies, will be ex-officio members of the Conference. Such other Ministers as the respective Governments may appoint will also be members of the Conference. (2) That a permanent Secretariat shall be appointed for the interim between the conferences, and charged, under the direction of the Secretary of State for the Colonies, with the duty of obtaining information for the use of the Conference, of attending to its resolutions, and of conducting correspondence on matters relating to its affairs. (3) That a central staff of defence be created, for which no money contributions will be asked from the Colonies, but upon which the self-governing dependencies may be represented if they so choose; this staff "to study military science in all its branches, and collect and disseminate to the various Governments military information, and to undertake the preparation of schemes of defence on a common principle." .... The question of Imperial preference was also discussed, Premier Deakin being especially desirous that schemes toward it be brought to a conclusion. It was notable that, in regard to questions of defence, Sir Wilfrid Laurier remained conspicuously silent.

The British press has been almost at one in eulogizing the establishment of the Imperial Conference

THE DUNN HOLLOW CONCRETE BLOCK MACHINE. Third year in the market, and every machinesold doing good work. Simple in construction and operatiou. Suitabl for block-making for a single building or for a regular block making business A moderate making business. A moderate priced machine; compact and portable. No power required. Has suited every purchaser, and will please you. Western shipments made from our Winning warebouse Winnipeg warehouse Write us for catalogue. Address Dept. O. THE JAS. STEWART MFG. CO., Ltd., Woodstock, Ont.

Milk Runs in Tank Why do you oil any machine? To lessen friction and wear. A grind-stone will run fairly well and last quite a number of years if it is only oiled "once in a while." But a grindstone DOil cup turns only about 65 times a minute.

BEST EARLY POTA

The most productive early variety by actual test; does not rot. Send

\$1 per 15 lbs., \$3 per bushel, or \$8 per barrel; C. O. D.

Out of 116 varieties tested at O. A. C., Guelph, Snider's stands first,

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days. Two varieties yielded a few more bushels per acre, but were

nineteen days later, so are not in same class with Snider's. It is also a strong grower. See ad. in Farmer's Advccate of February 28th,

must have a strong grower, with heavy foliage to withstand the blight and bugs and dry weather.

YOU RUN NO RISK. READ THE FOLLOWING:

"This is to certify that I am personally acquainted with Mr. Thos.

Bousfield, the grower of Snider's Best Early Potato. I have seen his

crop of potatoes, also the original copies of letters received re tests

made, and know them to be genuine. I am confident that all orders will be satisfactorily filled "

1907, for picture of leaf measuring over six inches in width.

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(Rev.) G. Francis Morris, Carlisle, Ont.

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rator has a bowl that skims the crean rator has a bowl that skims the cream from the milk by revolving thousands of times a minute. It's driven by gears which also turn at high speed. You see at once that unless all the working parts of a separator are thoroughly oiled they will soon begin to wear away, and re-member, that the gears of a separator must fit into one another exactly or they will run hard and make trouble.

Now every mechanical cream sepa-

hard and make trouble.

CREAM

SEPARATOR

442

The oiling device of the Improved

Prof. Ellis, of the School of Practical Science, Toronto, declares that ashes cannot burn, and that the most the mixture of coal, ashes, salt and oxalic acid, "discovered" by the Altoona cobbler, can do, is to conserve the heat thrown off by. the coal. He advises caution in using it, in view of the corroding action the salt and acid may have on the iron of stoves and furnaces. And so another bright dream has been dispelled.

# \* \* NEW PUBLICATION RATES.

Mr. W. H. Smith, Secretary of the Post-office Department, recently stated that there was nothing in the new agreement to prevent mail matter from either country being sent across the line by freight or express, and then being mailed at the usual rate of one cent per pound, if the authorities permitted. Thus, American publishers might send over consignments to their Canadian agents. who could then distribute them to their subscribers at the domestic rate, and Canadians do the same in the United States. It now appears, however, that the American postoffice authorities will not permit this, and since Canada is almost certain to adopt the same rule, it seems as

a great step towards Imperial Federation, the Morning Post alone looking upon the movement as an effort toward bureaucracy.

Before returning to Canada, Sir Wilfrid Laurier will visit France, Switzerland and Italy, and, in especial, the village of Lachendis, in Charente, whence in 1660 his ancestors emigrated to Canada. There has been some talk of his attempting, while in Paris, to lay the foundation of a treaty of commerce between France and Canada.

# RECIPES

Wheat Griddle Cakes .-- To 1 large cup of cooked wheat porridge add 1 pint milk and 1 heaten egg. Sift together 1½ pints Five Roses flour, 1 teaspoon sugar, ½ teaspoon salt, 2 teaspoons baking powder. Add, and bake on a griddle.

Afternoon Cake .- One cup sugar, cup butter, 1 cup milk, 3 eggs, 1 cup raisins, 3 cups Five Roses flour, 2 teaspoons baking powder. Flavor with nutmeg and cinnamon, and bake in pattypans.

"What is inconsistency ?" asked the curious one.

"Well," responded the wise one, "it is that spirit which moves a woman whose sleeves stop at the elbow to scold her husband because he hasn't cuffs on." -Chicago News.

ofoil is the result of years of careful and expensive experimenting. But it's worth all the trouble because it is recognized as superior to that of any other cream it is recognized as superior to that of any other cream separator. The cut will give you an idea of it. Notice that part of the frame has been broken away showing the driving gears and bowl. Notice that the bowl which turns fastest is kept thoroughly oiled by the automatic oil cup. Notice, too, that the lowest gear wheel touches a pool of oil. When the gears are in motion, this oil is thrown up in a spray just as a buggy wheel throws water when you drive through a mud puddle. In this way all the gears **run in oil** and that's why there is so little friction to a U.S., and why it is the **longest-wearing** and **lightest-running** separator made lightest-running separator made.

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Wild, improved and partly improved, for sale in the best districts of Western Canada. Only small cash payments required. Balance in term of years at ordinary rates of interest. Your crops will make your future payments. Thousands are becoming independent from the proceeds of such land. So may you. It's the last opportunity. The best investment possible. Write us for booklet and other information.

# Children's Corner.

[All letters for Children's Corner must be addressed "Cousin Dorothy," 52 Victor Ave., Toronto. Otherwise they will not be published.]

# PUZZLE COMPETITION.

Anyone under 16 years old may try for the prize. Neatness will count, and answers must be in before May 24. In case of more than one perfect paper, the prize will be awarded to the first arrival. COUSIN DOROTHY. 52 Victor Ave., Toronto.

1. Jumbled Letters. — Letters spelling the name of an animal: Kyemon, Bibtar, Eosum, Braze, Noli, Grujaa, Figefar, Kumarts. The name of a plant: Geebaba, Otaotm, Tcahireok, Hitselt, Umelnl. 2. Squares.—Find three letters which

spell: (a) the name of a boy, (b) a small insect, (c) something that is done to leather. Four letters spelling: (a) a heavenly body, (b) a name for sailors, (c) what artists study, (d) very unpleasant animals.

3. Acrostics.—The first letters of the following nouns will spell (a) the name of a great admiral, (b) the name of a great general.

- (a) Something used in sewing.
- An important part of a train. An English peer.
- One of a crew.

A strong-smelling vegetable.

A time of darkness. (b)

A refreshing drink.

- A province of Canada.
- A safeguard for ships.

The covering of a bird.

The country to which we owe most. 4. Fill in the missing letters, and you will have ten Canadian towns and cities: -IN--PE-; -U-B-C; H--I-A-; -RA--F-RD; P-N-T--G-IS- E-E; -T--W-; -AN-OU-E-; K--G-T-N; G-ELP-; P-T--BO-O.

5. Why is a bad joke like a poor pencil? Where did the witch of Endor live? If a fender and fire-irons cost \$4, what will a ton of coal come to ?

What is the difference between a bankrupt man and a feather bed ?

6. Make a sentence out of the following letters: esiweBdnaehtdaer etacovdAsremraF.

ARE LARGE FAMILIES BETTER THAN SMALL?

## Affirmative.

Dear Cousin Dorothy,-Is it not really time Fred Hungerford's letter was answered, as I do not think he is correct? If, in big families there is a great capacity for quarreling, is there just as great a chance for loving? I am acquainted with several children who come from families where there are only one or two children, and they are generally selfish, and do not know how to play unless with a dog or a cat. On the other hand, boys and girls from big families have lots of jolly games, and are hearty in playing with others. Again, so far as disease and the small families of the rich are concerned, take Mr. Andrew Carnegie for example. He is rich enough surely, and has only one little girl, yet she is an incurable invalid. Just think of the lonely existence of that child, though she may be surrounded with every luxury. How much more merry would be her well days, if she were surrounded by a lot of brothers and sisters who cared for herself and not for her wealth. Of course, I think the best place for large families is out in the country, and not in the town. I could say more, but I do not want this put in the waste-basket.

# FOUNDED 1866

# The Advantages of Education.

Dear Cousin Dorothy,—I read the Children's Corner, and I saw there was to be a debate on "education of farmers." I think farmers SHOULD be educated more than they are now. I think there should be higher education in the public schools, so as to give farmers' children that cannot afford to go to high school better education. If that was the case, we might some day have more farmers in our Parliament" than we have now. I think farmers should be capable of ruling the country as well as doctors and lawyers. Wishing the farmers and "The Farmer's Advocate" every success.

ANNIE L. CAMPBELL (age 11). Corbyville, Ont.

### A Lively Letter.

Well, Cousin Dorothy,-I have chewed the end off my pencil while wondering how I shall begin my first letter. I would have written before, had I not remembered the insatiable appetite of the  $W, \mbox{-}\mathrm{P}, \ \mathrm{B},, \mbox{ and thought it better to keep}$ my distance. At last, however, I have given way to the temptation, and here I a- What ! no admittance ! Well, just this once, and I won't bother you again. There, I knew you would let me in on that promise. I am not acquainted with a single person in the "Corner," unless it is Blossom, and I have an idea who she is. Cousin Dorothy, don't you think it would be nice to have colors? It would be rather odd to have plaid for our colors; that is, if you approve of having any. I went to a friend's a few days ago, and had just a fine time. We 'sugared off'' every blessed day. We even went to the bush and ate syrup outof little wooden spoons. Quite a few years ago, a friend and I were going through a sugar bush, and, seeing the buckets under the spouts, we thought we would like some maple syrup. So we picked up a bucket, and if it wasn't full of bugs, and every one we peered into had bugs. But this did not scare us, and we tasted it. Of course, it was sap, and we silly little idiots did not know it. I would love to tell you more about my visit, but I am afraid that the W.-P. B. is looking longingly at this letter, so I had better skidoo.

### CLEOPATRA.

How would we manage about colors? Would everyone who reads the Corner be allowed to wear them? Anybody else got anything to say about it? C. D.

# THE LETTER BOX.

Dear Cousin Dorothy,-I am an interested reader of the Children's Corner. I agree with those that are beginning to write about some other subject, for I think it very monotonous to be reading about cattle and pets all the time; but I think that short stories about how you are spending your days at home or about your school days, or any other subject you may desire to tell about, would be more interesting than writing about other countries. What do you think ? I hope you all agree with me. I go to school. We have a consolidated school. There are a large number of scholars going. We had some fine coasting this winter, but it did not stay long. Wishing "The Farmer's Advocate "every

# THE H. H. CAMPKIN CO., LIMITED Head Office: Indian Head, Sask.

Branches: Regina, Saskatoon, and Moose Jaw



Simply Perfect and Perfectly Simple. Box F.

ONE OF A LOT (age 17). Nashville.

# NEXT SUBJECT FOR DISCUSSION.

"Can boys be as useful at home as girls?" You see, Cornerites, that the debates get a good deal mixed up, on account of the letters having to be sent to the printers some time ahead. But "c get along all right, don't we? REBECCA R. McGILLIVRAY (age 18). Purl Brook, Antigonishe Co., N. S.

Dear Cousin Dorothy,--I live on a farm, and just across the road is Fair Child's Creek, a tributary of the Grand River. How many of you girls, that are members, like housekeeping? I think that it is fun. I have four sisters. I would like to have some girls correspond with me. The letters should contain riddles, as I am very fond of them. STELLA ALLAN (age 10). Onondaga, Ont.

Dear Cousin Dorothy,—I live on a farm, a few minutes' walk from the village of Pakenham. We are beautifully situated on the banks of the Mississippi; skating in winter and boating in summer. I am visiting away from home, where there are two little boys, Albert and Charlie. Albert has some pet pigs. and Charlie has a pet calf. Charlie helps me gather the eggs every day.

LAURA MacARTHUR (age 11). Pakenham, Ont.

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w there was education of SHOULD be re now. er education as to give ot afford to ducation. If t some day Parliament ink farmers the country ers. Wishing ner's Advo

(age 11).

ave chewed wondering letter. I d I not reetite of the ter to keep ver, I have and here I Well, just you again. me in on acquainted" Corner," ave an idea don't you ve colors? ve plaid for approve of end's a few e time. We day. We syrup out lite a few were going seeing the hought we So we wasn't full eered into scare us, se, it was s did not you more d that the y at this

PATRA. ut colors ? Corner be vbody else ? C. D.

an inter-Corner, I inning to ect, for I e reading time; but how you home or

# MAY 2, 1907

# THE FARMER'S ADVOCATE.

The Doctor Said **Nervous Prostration** But After Weeks of Effort He

Could Not Help Me, and I Was Cured by Dr. Chase's Nerve Food.

Sleeplessness, failure of appetite and Oligestion, and then nervous collapse. This is the story told in this letter. But there is also new hope for similar sufferers in the cure described. Mrs. Alf. Stevens, Burgessville, Oxford

County, Ont., writes :

'Two years ago last November I was run down, and did not know what was wrong. I could not sleep or eat, and at last my nervous system gave way entirely, and I had to go to bed. The doctor told me I had nervous prostration, and, though he doctored me for some weeks, I did not get any better.

'I then began the use of Dr. Chase's Nerve Food, and by the time I had used six boxes I was completely cured. People remarked how well I looked, and I said, 'Yes, and I feel well, that is the best of it, and Dr. Chase's Nerve Food did it.'

It is in extreme cases like this one that Dr. Chase's Nerve Food shows its extraordinary power of building up the nervous system and overcoming disease; 50 cents a box, at all dealers, or Edmanson, Bates & Co., Toronto.

THE MORE YOU TAMPER WITH

THE MORE AMBITIOUS AND

Supe fluous

Dear Cousin Dorothy,-We live on a arm on an island. This island is seven miles long and two miles wide in the widest place. There are forty-two families living on it. And, also, we live on the south side of the Bay of Quinte. It is a beautiful place in the summer. We can troll and catch bass, pike and other fish. EVELYN THOMPSON. Big Island.

Dear Cousin Dorothy,-My father has taken "The Farmer's Advocate" for three or four years, and we like the paper very well. We live at Mt. Elgin Institute, and there are about one nundred Indian pupils at the Institute. There are Indians living all around us, and we live near a river called the Thames. I have three miles to go to school, and I am in the Fourth Book. We have a ride to school every morning, and an Institution boy or an officer comes after us at night. We have a dog named Collie, and a very snoopy cat. I think I will close for this time, wishing The Farmer's Advocate " every success. WALTER MATTHEWS (age 12). Muncey, Ont.

What kind of a cat is that? C. D.

Dear Cousin Dorothy,-This is my second letter. We live on a farm about 13 miles from the City of Peterboro. Rice Lake is two miles south of here and the Otonabee River is two miles north. In summer, the boats carry passengers up the river to Peterboro. I sometimes go on the boat, and like the sail very much.

HERBERT E. DAWSON (age 8). Lorenz, Ont.

# With the Flowers.

# PRUNING FLOWERING SHRUBS.

In this department last week there appeared an excellent reprint, dealing with the care of shrubs. Upon the subject of pruning, however, more might have been said. As a rule, the amateur goes at the work in March, thinning out relentlessly as though the shrubs were apple trees, and never dreaming that he is cutting out hundreds of embryo-flower shoots in the process. Flowering shrubs, as a rule, need very little pruning except to cut out dead or weak shoots, which may be done in spring before growth begins. Immediately after flowering, however, they should be headed back just a little. This will induce the growth of new shoots during the summer, and it is upon the new wood, of course, that the bloom will appear the following spring. When pruning drooping shrubs of any kind, care should be taken not to de-

# Telephones

763

If you have no telephone line in your locality, now is the time to build one. It's not a difficult proposition. Get about ten men together with a small amount of capital, organize a Telephone Company and build a line.

Write to-day for our Bulletin No. 2. It tells all about organizing Telephone Companies and constructing the lines.

We are the only manufasturers in Canada who can supply you with anything and everything needed to complete a telephone system.

Northern Electric & Mtg. Winnipeg. (Limited) Montreal.

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whose rich and handsome appearance can scarcely be equalled by any other finish at any price, can be obtained at a very moderate cost by using our

# **Classified Metal Ceilings and Walls.**

Hundreds of harmonious designs suitable for any room, from a bathroom to a hotel rotunda or theatre. Our Metal Ceilings and Walls are very quickly

and easily put on, and are practically everlasting. They are washable and sanitary, and afford a real protection against fire, dirt and vermin. They add greatly to the safety and comfort, as well as the beauty,

of a room. Send for our Catalogue, showing dozens ot Classified Designs. 50

METAL SHINGLE & SIDING CO., Limited - PRESTON, Out.

ENERGETIC IT BECOMES. There is no other Don't tamper (cut, pull, burn or use de-pilatorie.) with it, but come here and be suc cessfully treated. Our method is reliable and practicely. De in here practically painless Satisfaction guaran-

treatment that will permanently remove this disfiguring blemish but Electrolysis.

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**Princess Complexion** Purifier

makes the skin clear, pure and fine. It re-moves tan, freckles, mothpatches and al discolorations, cures rashes, blackheads, piaples, eczema, ingworm, ivy poisoning, etc. Price \$1.50, exoress paid. We have reliable home treatment for dandruff falling hair, lines and wrinkles, red nose, sore hands and feet, and undevel-opet figure. Send stamp for booklet F. Graham Dermatological Institute, Dapt. F., 502 Church St., Toronto.

Established 1892.

anv other ell about, n writing do you with me. nsolidated imber of ine coaststay long. e '' every

(age 18). N. S.

ve on a is Fair ne Grand rls, that g? I ave four ve **some** e letters very fond ge 10).

6 ve on a rom the autifully sissippi; in sumn home, , Albert pet pigs,

lie helps e 11).

Water! Water! LISTOWEL DRILLING MACHINE CO. Manufacturers of welldilling machinery and druling tools The most efficient and best-equipped outfit in Canada 'o-day. Catalogue and full par-

ticulars on application. LISTOWEL, - ONTARIO. **\$12 WOMAN'S SUITS, \$5** 

Suits to \$15. Cloaks, raincoats, skirts and waists at mauu-facturers' prices. Send for samples and fashions. Southcott Suit Co., Dept.27 London, Can. Send for our catalogue, which lists everything you use.

### FOUL IN FEET.

 Three of my cattle have become very me behind. They are swollen from the Teet up. W. P.

Ans.—The symptoms given are very  $\mathrm{meagre}, \ \mathrm{but} \ \mathrm{I}$  am of the opinion the trouble is foul in the feet, caused by either standing in or walking through irritating substances, as liquid manure, starmant water, etc. Remove to dry,  $\operatorname{cle_{H^{\ast}}}$  quarters, and apply hot poultices to the feet; use linseed meal and boiled turness. When the soreness disappears, if gay raw or tender surfaces appear, dross three times daily with carbolic n. i. 1 part; sweet oil, 30 parts. V.

stroy the beautiful fountain-like effect. Better leave them almost strictly alone except to cut out such growth as is distinctly disfiguring. When planting out shruhs that blossom before the leaves appear, e. g., Forsythia and Japonica, care should be taken to place them where they will have a background of evergreens: otherwise a great deal of their beauty is lost.

# A PROTECTION FOR CHERRY TREES

A shrub that should be seen more commonly than it is is the Juneberry of the glands of the throat. She has (Amelanchier Canadensis). It is perfectly hardy, grows wild in many parts fined pen during winter, with little exerof Canada, and in all probability would cise. She will not eat, but seems accommodate itself quite readily to al- bright, and does not appear to get betmost every other part. The Juneberry grows into a small tree, which bears beautiful loose-petalled white flowers and trouble, and is there any remedy? a profusion of blue berries, which ripen with the cherries. Robins are very fond of these berries and will leave lack of exercise, and liberal feeding. The cherries any time to eat them; only hope for her is to get her out on hence Juneberry trees may well be the ground and on grass as soon as planted as a protection for the fruit possible, and give her a good bed of orchard. as may also pin cherries, or straw on the sunny side of a building, any other small wild fruit. Better this protected from cold winds or drafts. than to shoot the robins, which, after Give laxative food, as bran, ground all, are among the best friends a oats and greasy swill. We should have farmer has. It is often forgotten that little hope for the success of the these fruit-eating birds also eat cater- prospective litter, considering the treatpillars and insects of all kinds, and that, ment and condition of the dam at this upon these, when the fruit season is date, but shall be glad to have a reover, their chief means of subsistence port after parturition, hoping it may be must depend.

### QUESTIONS AND ANSWERS. Miscellaneous.

DIFFICULT BREATHING IN SOW Have a young sow (a fall pig), which had done well till about ten days ago. Has difficulty in breathing; every third or four breath will be exhaled with a gasp. There seems to be a thickening been kept with a mate in a warm, conter or worse. She is due to farrow the last of May. What do you consider the

C. P.

Ans .- The trouble is doubtless due to better than our fears,

# MUSHROOM CULTURE.

I am about to put in a small mushroom bed, and, as my information on the subject is limited, I want to get a small, simple and inexpensive handbook on the subject of mushroom culture. J.C.F.

Ans.-One of the standard books on mushroom culture is called "Mushrooms: How to Grow Them," by William Falconer. This little volume of 170 pages is published by the Orange-Judd Co., New York; price, \$1.50. A more recent publication is called "The Secrets of Mushroom Culture Simplified and Explained." This is a little paper-covered volume of 42 pages, written and published by A. V. Jackson, 3267 Northwestern Ave., Chicago, Ill., who claims to be the largest mushroom-grower in America. This is a very practical little book, but the price, \$1, seems rather expensive. Either of these volumes could be obtained direct from the publishers or through a local bookseller. There is an excellent little bulletin on this subject called "Mushroom-growing for the Amateur," by George F. Atkinson and Robert Shore, of Cornell University. No doubt, this could be obtained upon application to L. H. Bailey, Director of Cornell Experiment Station, Ithaca, N H. L. HUTT.

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# THE FARMER'S ADVOCATE.



Condensed advertisements will be inserted Condensed advertisements will be inserted under this heading at two cents per word each insertion. Each initial cents for ene word, and figures for two words. Names and addresses are order for any advertisements under this heading. Parties having good pure-bred poultry and eggs for sale will find plenty of customers by using our advertising columns. No advertisement inserted for less than 30 cents.

A SNAP-Choice Single-combed White Leg-horn eggs; 13, 75c.; 30, \$1.50; 100, \$4. Geo. Easton, Jr., Whitney, Ont.

A T Valley Mills Poultry Ranch—Fertile eggs from Single-comb White Leghorns, Buff Orpingtons, \$1 per setting, \$4.50 per Lundred. Mottled Anconas, settings only, \$1. No better winter layers. Free circular. Edmund C. Apps, Box 234, Brantford, Ont.

**BABBED ROCKS-Pen headed by second-**D prize cockerel, Toronto, 1905. Eggs. 15. A. L. Ormiston, Columbus, Ontario Eggs, \$2 per

BUFF ORPINGTONS-Yards 3 and 4-Headed D by males whose grandams had records of from 240 to 282 eggs in one year. Eggs, \$1.25 per 15; \$5 per 100. Circulars, C. Everard Brown, Havsville, Ont.

BUFF ORPINGTON eggs for hatching from D extra heavy layers \$1 per 15, \$5 per 100 Good hatch guaranteed. Hugh A. Scott, Cale donia, Ont

BLACK Minorcas; White, Brown, Black, Buff. B Legherns; Buff Orpingtons; Harred, Buff, White Bocks; White Wyandottes; Silver Ham-burgs; Pekin ducks. Eggs from winners, \$1 per setting. R. Lourie, Drumbo

RARRED Rock eggs, from a pen of the "National strain," selected for their choice barring and persistent laying of large perfect colored eggs, and mated with two prize cock-erels, vigo ous, blocky, barred to the skin Price, 81 per 13, or \$2 per 40. W. C. Shearer, Bright Ont.

CHANCE-S-C. White Leghorns-layers; 28 eggs, \$1.50 upwards. Quick supply. Flendall, Smithfield, Ont.

CANADA'S best Single-comb and Rose-comb Bl ck Minorcas; great layers winter and summer; single comb eggs, \$1.50 per 15; Rose-comb eggs, \$2.50 per 13. T. A. Faulds, 11 Victor St., London, Ont.

CLOVER LEAF POULTRY YARDS-Barred Book eggs for sale. Pen No. 1, \$150 for 13 eggs; pen No. 3, 750. per setting or \$3 per 100. Extra heavy laying strain. D. Carmichael, Jr., proprietor, West Lorne. Ont.

GGS for hatching from S.-O. Buff Orping-Elms Poultry Yards, Trowbridge, Ont. Write for prices

GGS-White Wyandottes (McKellar strain), Barred Books (Thompson strain), Barten Barred Bocks (Thompson strain). Per two settings one dollar W. Bryant. Cairngorm, Ont.

EGGS-Boff Orpington, White Wyandottes (Duster strain), B. Rocks. Bred for winter laying, \$1 per 15; \$4 per hundred. J. H. For-don. Beachville.

E GGS for hatching from McCormack's prize-winning White Leghorns at \$1 per 15 up. L winning White Leghorns at \$1 per 15 up-wards. Send for mating list. Jas. L. McCor-mack, Brantford. Ont.

E GGS FOR SALE-My birds won at the On Listen or \$5 per 100. Blue Andslusians and Rhode Island Reds, \$150 per fifteen. F. W. Kronse, Guelph Krouse, Guelph

NOR SALE - White Wyandotte eggs from **T** prizewinning stock. Fertil The Daniels Bros.. Valens, Ont. Fertility guaranteed.

NGLENOOK Poultry "aim offers eggs from selected pens of choicest layirg strains of

Now is the Time to Ship Butter, Eggs & Poultry. Prices good. Returns quick.

QUEEN CITY PRODUCE COMPANY, LTD. 100 Front St. E., TORONTO,

WM. AGAR, MANAGER.

### **MORGAN'S ROUP CURE**

Is guaranteed to cure Roup in all its forms, is a preventive of Colds, Gapes, Cholera, Diof Colds, Gapes, Cholera, Di-arrhœa and all Germ Diseases; no trouble. Price 25c. postpaid. Ask for Free article on Feeding Chicks and Poultry



Advertisements will be inserted under this needing, such as Farm Properties, Help and Situations Wanted, Pet Stock, and miscellaneous advertising. THERMS—Three cents per word each insertion

Bach initial counts for one word and figures for two words. Names and addresses are counted Cash must always accompany the order. No advertisement inserted for less than 50 cents.

CUB BEAR wanted-Write to Mr. John F. Drury, care of Mr. Hugh Hall, Linton, Ont. RANBERRY vines for sale, \$2.25 per barrel, or 20c. per lb. by mail. Correspondence ited. Henry Shaw, Waterville, N. S. solicited.

FOR SALE-Pet donkey: \$75 will buy cart, harness and beautiful pet donkey. No bad habits. Address: Brx 798, Berlin Ont.

POR SALE-25,000 acres; wild lands; by 1. H or full section. Adjoining homesteads. Eagle Lake District. Also improved farms J. M. Thomson, Real Estate, Indian Head.

HARM lands of all description in Manitoba, B Sakatchewan and Alberta. Some excel-lent propositions in improved farms with small Write for cash payment, balance in half crop. Write for particulars to Western Canada Realty Co., Souris, Man.

FOR SALE - Cranberry sets; price, \$3 per barrel. S, C. Parker, Berwick, Nova Scotia. L' Darrel. S. C. Parker, Berwick, Nova Scoula. N EW JERSEY FARMS-5 acres good, high, dry land near Atlantic City N. J., for \$100 -\$5 down, \$5 monthly. Excellent soil and climate for raising early fruis, berries, truck, squabs and poultry. Good markets close by, Two rail oads. Near large manufacturing city. P re air acd water. Title perfect. Booklet free. Daniel Frasier Co., 728 Bailey Building, Philadelphia. Pa free. Daniel Fra Philadelphia, Pa

WANTED-Persons to grow mushrooms for us in their own homes. Waste space in cellar, garden or barn can be made to earn \$15 to \$25 per week. Send stamp for illustrated booklet and full particulars. Montreal Supply Co., Montreal.

WANTED-Farmers and others who desire Apply to A. Stevenson, emigration agent, Kil-marnock, Scotland.

WANTED-Good, competent men to work on a largs pure-bred stock farm. Good pros-pects for right parties. Apply: Box 41, Water-

down. W ANTED, a good, competent women for general housework in private house on Sunnybank Farm. Work light, two in family, no farm work connected, permanent position. Ad-dress Frank X. Brabant, Wa laceburg, Ont.

WANTED by experienced man, single, situa-WANTED by experienced man, single, since tion with a show herd as herdsman. Can fit for show or sale. Able to take full charge if required. Address: Herdsman, care Farm-ar's Advocate, London, Ont.

# QUESTIONS AND ANSWERS. Miscellaneous.

## SPASMODIC COLIC.

I have a horse that is subject to spasmodic colic; what kind of feed would you recommend for him ? Would you recommend any condition powder, and what kind, if any?

Ans .- Feed hay, oats and bran of good quality and always in limited quantity, mixing bran or chaff with his oats so he will eat slowly and chew it well. Be careful when watering never to allow much cold water while warm. Still, it is better to water before than after feeding. It is a good plan in summer to draw the water a few hours ahead and let it stand in the pail till wanted. The feeding of a tablespoonful of ginger every night in the food tends to ward off attacks by keeping the digestive apparatus in tone

# WATERCOURSES.

The farms of A, B, C and D corner each other. A's watercourse originally conveyed water from A's farm across B's into C's, but natural causes diverted the water down A's side of the fence into C's, down beside the fence between him and D for the last eight or nine years, to a watercourse which originally came out of D's into C's, but last fall, owing to deposits, went further beside the fence into an unbroken field, and there divided. some going outo C's and some to D's. D has notified C that he must open the original watercourse between A and B. but B threatens he will prosecute if C attempts the same. Can D hold C responsible for alleged damage?

2. Is it lawful to divert a watercourse if a proper outlet can be secured, and water from same will not be injurious? SUBSCRIBER

Ans.-1 and 2. These are matters that call for the attention of the township engineer if the parties find that they are unable to agree respecting same. They ought, however, to make an earnest effort to get together and arrange the difficulty between themselves.

### HOTBED-BOOKS ON GARDEN-ING.

I intend making a hotbed this year but am ignorant as to what is required in the way of heating material, ground. way of building frame, etc. May I ask for information on the subject at your convenience?

Ans.-In making a hotbed, the material used to furnish heat is usually manure from the horse stable, which has been piled in a conical heap until strong formentation takes place. It is well to turn the heap once or twice until the whole pile is thoroughly heated. It wo feet deep, and extending a foot or

## FOUNDED 180.5

### PREPARING A LAWN.

Our home and buildings are all new, and the front-yard for the lawn is old sod-timothy and clover on high and dry ground. Would you advise to cultivate the ground this season to put it in proper condition for lawn grass next year? The ground is not very rich, and will need to be well manured. R. S. F.

Ans.-It would certainly be advisable to plow up and thoroughly cultivate and level ground for lawn, which is now seeded with timothy and clover. It would be best to thoroughly cultivate the ground until all the timothy and clover roots are dead, and if the ground is in need of enriching, well-rotted manure could be applied to improve it in that particular. It might be possible by repeated cultivation to get it in condition for seeding in time to get a good catch of lawn grass this fall, but unless the seed could be sown early enough to get considerable top before the cold weather sets in, it would be better to leave the seeding till early next spring. H. L. HUTT

### GOSSIP.

In our issue of April 25th, we published an item headed " A Simple Homemade Liniment," giving a subscriber's recipe for what he says is an excellent liniment. By a mistake of the clerk, the amount of water was made two ounces larger than it should be. The correct formula is: 2 ounces ammonia, 2 ounces turpentine, 2 ounces sweet oil, and 4 ounces water.

### W. J. THOMPSON'S SHORTHORN SALE.

The dispersion sale on Thursday, May 9th, of the entire Hollymount herd of Scotch-bred Shorthorns belonging to Mr. W. J. Thompson, of Mitchell, Ont., including 16 imported cows and their produce, 35 head in all, constitutes one of the most important offerings of the year, or indeed of recent years in Canada. Mr. Thompson has been a liberal buyer of the best things at public sales as well as privately in the last few years, and as the herd has been well cared for, without being pampered, the cattle are in excellent condition, in the best of health, and breeding regularly, nearly all the females of breeding age having calves at foot, sired by the excellent Matilda-bred bull, imported Rustic Chief =40419=, included in the sale, the balance being forward in calf.

Among the useful families represented are the Clementina, Kilblean Beauty, Jilt. Bruce Mayflower, Rosemary, Bellona, Bessie, Lovelace, Nonpareil and Crimson Flower tribes.

Nearly all the cows are young, and a goodly number of the heifers are in calf and will soon be in profit. Recent auction sales of Shorthorns in the United may then be placed under the frames in States have given evidence of a decided which the plants are to be grown. The upward turn in prices, Canadian-bred manure should be piled in a heap about cattle taking the lead in selling value, and the probability is that an demand for good cattle of the right type may be confidently counted upon, and the purchase of young breeding cows and heifers at the present time looks like as safe an investment as can be tackled. Especially is this true of young imported cows and their progeny, since the high prices prevailing for the best type of Scotch-bred Shorthorns in Great Britain precludes the possibility of profitably importing any more good ones for some time. Such cattle have been selling at very moderate prices in Canada this spring and no better opportunity than the present has offered in many years to lay the foundation of a herd of the right class with a moderate outlay than the present. Mr. Thompson deserves a good sale, for he has been a plucky buyer, and breeders should feel an interest in attending his sale, as on its reasonable success will depend to a considerable extent the scale of values of the breed generally in this country for some time, to come. The date of the sale makes it an unusually favorable time to buy, as stable feeding will be practically over, and pastures nearly, if not quite, ready to turn onto. Mitchell is convenient of access, being only a few miles west of Stratford on the Buffalo and Goderich branch of the G. T. R., and the terms of the sale are easy. It will probably he a good while before so good a chance will again be afforded of securing such good cattle of desirable type and breed-



White and Brown Legnorns, Black Minorcas and Buff Orpingtons, also a select pen of White Wyandottes for show birds, but not tested for leying quality. Eggs e ther separate or assorted, \$1 per 15; \$5 per 100. W. H. Smith, 41 Spruce St., Toronto.

Der, 1070n50. COCHABAR Stock Farm and Pouitry Yards offers eggs from the following varietis: Barred Rocks (Latham's strain). Buff ' rping-tons, S. L. White and Partridge Wysadotte, \$1 per 13 Imperial Felin duck eggs. \$1 per 9. Eggs from imp. Bronze turkeys, \$650 per 9 eggs. D. A. Graham, Wanstead, Ont.

**D. A. Graham, Wankead, Unit. RELIABLE POULTRY YARD5**—The breed that lays is the breed that pays. Single-comb White Leghorns are acknowledged the best everywhere. Eggs \$1 per 15. \$4 per 100. A few sets of Canada's fine t B P. Rocks. Cata-logue free. Correspondence a pleasure. Guar-antee 7. per cent. fertile. H. B. Foster, Box 359, Bowmanville. Ont. Bowmanville, Ont.

RHODE Island Reds-Rose comb (exclusively) To bred eight years from carefully-selected heavy winter layers; large, brown exgs; \$150 per 15. Good hatch guaranteed. Jno. Luscombe, Merton, Ont.

SELECTED LAYERS — Barred Rocks (Haw-kin's mating, Boyce's), \$1, fifteen; \$5 per 108 J. F Roth, Haysville, Ont.

WHITE ROCKS-Eggs from my prizewinners

W HITE ROCKS-Eggs from my prizewinners at \$150 per 15, \$6 per 100. Geo. R. A. Miller, Vallentyne, Ont WHITE Wyandottes (exclusive y). Best gen-eral-purpose fowl, strongly-fertilized eggs from heavy-laying Martin and Duston strain, one dollar per fifteen. Daniel T. Green, Brant-ford ford.

20 EGGS, \$1.75, from Silver-laced Wyan-Hertel & Bogues, Hanover, Ont

The Top Prices Paid for Wool Drop us a card for prices. LLOYD-JONES BROS., BURFORD, ONT. the Canadata Shire book.

320 ACRES; fine wheat farm; 190 acres under cultivation. Good buildings. \$23 per acre. Easy terms. 640 acres prairie land. Good location. \$13 per ac e Regina city property. 100 other good propositions Sebolt & Froom Regina, Sask

# A MISREPRESENTED HEIFER.

A bought a heifer from B. B claimed that heifer was pure-bred Shorthorn and in calf to a pure-bred bull, and that he would furnish registered pedigree. The heifer is not in calf, and B will not furnish pedigree. What will A do in this

Ans .- If A were to intimate to B that mless he were willing to make reasonable compensation, the matter would instment, perhaps B would make a suit ble settlement. We would suggest that A take that cours, with him, and follow it up, if necessary, by suit in the

### ENGLAND'S GLORY AND CARDINAL.

studbook of two horses travelled Since County twenty five to Party

" Make Lale Studbook. 1  $^{\rm M}$  s doubtless an En probably a Shire, as two horses of the name appear i

o beyond the sides of the frames. This insures uniform heat in all parts of the hotbed. The manure should be thoroughly packed, and after the frame has been placed upon it, six or seven inches of good garden loam should be placed inside the frame in which to sow seeds. Seeds should not be sown, however, until the temperature begins to fall after the frames have been made up. A thermometer should be used inside the frame to note the temperatures. Great care is required in watching plants in a hothed to regulate temperature. If the sun heats down strongly upon the glass, addition to the heat from the manure beneath, the temperature sometimes rises very quickly, and plants are liable to be injured. The temperature must be regulated by reason of raising or lowering the sash to give ventilation. Care must also be taken in watering to avoid soil drying out through intense heat beneath. If you are engaged in garden work, it would pay you to get a good book on surdening in which full directions are given for the preparation and manageent of hotheds, as well as garden crops. would recommend ... Principles of Veged by the MacMillan Co., Toronto;

# WN.

re all new, awn is old igh and dry o cultivale put it m grass next ry rich, and R. S. F. e advisable

altivate and ich is now clover. It y cultivate mothy and the ground well-rotted nprove it in be possible t it in conget a good but unless enough to the cold better to t spring HUTT

we pub ple Homeubscriber's 1 excellent clerk, the wo ounces he correct 2 ounces oil, and 4

# THORN

sday, May it herd of ng to Mr. Ont., inand their itutes one gs of the s in Cana liberal Iblic sales last few been well pered, the n, in the regularly, ding age y the exed Rustic sale, the

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and all for sale at reasonable prices.

# THE FARMER'S ADVOCATE.

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PERCEERONE

**Clydesdales**, **Percherons** 

and Hackneys

I have still on hand 12 Clydesdale stallions, 4 Clydesdale fillies, all imported; Scotland and Canadian prizewinners; 3 years old, that will make 2100-1b. horses of choicest quality and richest breeding; 4 block Percheron stallions, 3 years old, big, flashy, quality horses, and 6 Hackney stallions, 1st-prize and championship horses among them. Will sell reasonable and on terms to suit.

DR. T. H. HASSARD, Millbrook P.O. and Stn.

GRAHAM BROS.

"Gairnbrogie," GLAREMONT,

IMPORTERS OF

HACKNEYS and CLYDESDALES

Established 30 years, and winners at all large shows

in Canada and United States. Best of stock always

on hand for sale. New importation of Royal winners

**Imported Stallions and Fillies.** 

Every one a high-class sctor and a show animal. Splendidly-matched pairs and singles. Positively the highest class lot of Hackneys to be found on any one farm in America. All ages. Also 4 imported Clydesdale fillies. A big flashy lot, full of style and quality.

**ROBERT BEITH.** 

Bowmanville P. O. and Station.

Long-distance 'Phone.

**KIDD, LISTOWEL, ONT.** 

40

Also Shiree, Hackneys and Olydes, have just arrived with our new importation from Scotland, England and France, of high-class stallions and mares. Many of them prizewinners in their native lands. Bred by the best preders. Percherons, blacks and grays, weighing 1,600 to 2,000 pounds. Shires at two years old weighing 1,700 pounds. Clydes, bays and blacks, 4 and 5 years old, weighing 1.800 to 2,000 po unds, bred by the best in Scotland. Our Hackneys are bays and chestnuts, combining size quality and breeding that cannot be beaten. We have a few first-class young stallions that we will sell at cost, to make room for our next importation;

HAMILTON & HAWTHORNE, Simcoe, Ont.

82 miles south-west of Toronto on the G. T. B.

# GOSSIE

Messrs. Mac Campbell & Sons, Harwich, Ont., write: "We have had a very prosperous year with our Duroc-Jersey hogs; have sold everything we could spare, and refused several orders. Our George D. Campbell is at present visiting some of the leading herds of the United States, in search of some of their best boars, and sows in farrow.'

Mr. W. H. Simmons, New Durham, Ont., writes: " Among my sales of Holsteins, since January 1st, 1907, are the following: To Mr. William Slaight, Bealton, Ont., three grand cows; Jemima Cubanna gave, in official test, '65 lbs. of milk in one day, and 62 lbs. average for fourteen days; Lizzie Pietertje De Kol, 19.50 lbs. butter in seven days; Little Katie Kent 3rd, also an excellent R. of M. cow. The sires of these cows are also in R. of M. To Mr. R. W. Walker, Utica, Ont., a grand show bull, to head his fine herd of pure-breds. This bull's dam is imported, and gave 59 lbs. of milk in one day. Our stock bull, Iosco Mechthilde, went to Mr. M. B. Traves, Latimer, Ont. He won first prize at Toronto, 1905. His dam and two sisters averaged 20.50 lbs. of butter in seven days. To Wm. T. Bell, Willets-holme, a bull calf, whose dam is in R. of M. This is the second bull that Mr Bell has purchased from this herd. A son of Lizzie Pietertje De Kol (official record 15.50 lbs. in seven days) went to, H. A Lester, Burford, Ont. A bull calf to A Cornell; his dam gave, in official test, 62 lbs. of milk in one day in official test from three teats. His grandsire is a brother to Altje Posh, 27 lbs. of butter in seven days, world's champion for age; also Mercena 3rd, 27.65 lbs. of butter in seven days, 113 lbs. in 30 days. These three bulls were sired by Prince Pauline De Kol 4th, third-prize bull at Toronto, and second at London, 1905. He has ten sisters in R. of M., and his dam has ten sisters in A. R., with records as high as 24 lbs, of butter in one week. An imported bull went to Mr. Albert Wells, Teviotdale, Ont.; a son of the secondprize yearling heifer at Toronto to Mr. John H. Tuttle, Oriel, Ont. His dam is sister to Liola, the champion heifer in Canada last year under three and a half years; a son of the first-prize bull at London to Mr. Wallace Tuttle. This bull's dam is full sister to the dam of the first-prize bull calf at London, 1904 Tidy Abbekerk Mercena Posch, now at the head of the herd, is the richest butter-bred bull calf in Canada, and unsurpassed in America; three nearest dams averaged 26.64 lbs. butter in seven days: three nearest dams' dam's sisters and grandsire's full sister averaged 27.66 lbs. butter in seven days."

# QUESTIONS AND ANSWERS.

# CAUSTIC BALSAM. A safe, speedy and positive cure. The safest, **Best BLISTER** ever used. Removes all bunches from Merses. Impossible to produce scar or blemish. Send for circu-lars. Sascial advice free. THE LAWRENCE-WILLIAMS CO., Toronto, Canada ABSORBINE will reduce inflamed, swollen Joints-Bruises, Soft Bunches, Cure Boils, Fistula, or any unhealthy sore quick-

HORSE OWNERS! USE

765

ly; pleasant to use: does not blister under bandage or remove the hair, and you can work the horse. \$2.00 per bottle, express prepaid. Book 7-C free.

ABSORBINE, JR., for mankind, ABSORBINE, JR., for mankind, Stains, Bruises, stops Pain and Inflammation.

W.F.Young, P.D.F., 78 Monmouth St., Springfield, Mass. Canadian Agents, Lyman, Sons & So., Montroal.



Nelson Wagg, Clarement P.O.&Sta.

# Imported Clydesdales

Two 4-year-old and two 3-year-old stallions; one 3-year-old and two 1-year-old fillies; positively the best bunch 1 ever imported; richly bred, full of quality, abundance of size, and nice, true actors. Will sell them right. Terms to suit.

Telephone con. Geo. G. Stewart, Howick, Que

For Sale : A Registered Clydesdale Stallien For Sale : A Registered Clydesdale Stallion First-class, coming 3 years. Color, rich brown; small stripe and little white on two feet. Sired by Imp. Pioneer [1131] (3374), of Darniey breed-ing. Dam out of the imp prizewinner, Culmain Lass (1913), and grandcaughter of old Prince of Wales (673), sired by imp. Queen's Own (7176) [1708], winner of several gold medals in Canada. A promising colt, of the very choicest combina-tion of breeding, with near ancestors leading winners in keenest competitions. Price very moderate for quick sale. JOHN COMPERING. Fairview Farm, Woodville, Ont.

SHETLAND PONIES! P. McCullough & Son. Breeders and im-porters of Sheiland ponies, Markdale, Ont. We showed 8 ponies at Toronto Exhibition in 1906, and got 8 prises: 3 firsts, 4 seconds and 1 third, All our ponies are imported. Our stallion, Fox-glove, took first prize at Toronto. Our mare. Bessie, took first prize, and their foal, Brnce, took first prize, and their foal, Brnce, took first prize also. Good accommodation for mares sent from a distance to breed. Ponies for sale. Our address: Markdale P. G., Ont.



By the champion Matchless of Londesbore, and

Importer of Clydesdales, Shires, Percherons, Belgians, Hackneys, Standard-breds and Thoroughbreds

just arrived.

of highestpossible quality and richest breeding. Have sold as many stallions the last year as any man in t.e business, with complete satisfaction in every case. I have always a large number of high-class horses on band. My motto: "None but the best, and a straight deal." Will be pleased to hear from any one wanning a rare good one. Terms to suit. Long-distance 'phone-LISTOWEL P.O. AND STATION.



# **GLYDESDALES** and **HACKNEYS**

Our Clydes now on hand are all prizewinners, their breeding is gilt-edged. Our Hackneys, both stallions and mares, are an exceedingly high-class lot. We also have a few high-steppers and carriage horses. Yonge Street cars pass the door every hour. 'Phone North 4488.

RAHAM

**W. C.** 

& RENFREW, BEDFORD PARK, ONT.

Veterinary

### MISCELLANEOUS.

1. Give treatment for diarrhœa in a horse

2. Where can Angora goats be pur chased, and on what kind of land will they thrive best? Where can their hair be sold ?

3. Can a bitch 5 years old be spayed without danger?

4. At what age should Angora goats he castrated ? G. R.

Ans.-1. Remove the cause. If due to an irritant in the intestines, give a pint of raw linseed oil and follow up with astringents as 2 ozs. tincture of opium, 4 drams each of catechu and prepared chalk in a pint of cold water as a drench every four hours until diarrhœa ceases. If the case be acute and the horse becoming weak, omit the oil and commence with the astringents at once.

2. I do not know where they can be purchased or where there is a market for the hair. Probably some readers of this journal may have them for sale. They like other goats, will thrive best en high, dry land.

3. There is always danger of untoward results following this operation. The danger is greater in a five-year-old than in a younger animal, at the same time the risk is not great if the operation be skillfully performed.

1. From 2 to 4 weeks old.

out of champion mare. Dagmar, by Denmark. For particulars addres: **SHELGURNE** FARMS. Shelburne. Vt., U.S.A.

FOR SALE: Two imported

# STALLIONS CLYDESDALE

Six years old. Big strong fellows. with good breeding and sure foal getters; also an imported **Hackney** stallion, 5 years, These horses will be sold at living prices.

R. REID & CO., Hintonburg, Ont. (near Ottawa).

REGISTERED OLYDESDALES for sale.

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For Sale REGISTERED CLYDES-DALE STALLION, Wild America (4183); foaled June 10th, 1808. Full particulars will be given upon writing to A. GRADY, CASTLEMORE. ONT.

CLYDESDALES and Shorthorns-Four Imp. Clyde mares, 2 and Shorthorns-Four Imp. Clyde mares, 2 and 3 years old, bred in the purple-two of them in foal. One filly, rising 1 year, sired by the great Macqueen-registered. Three Shorthorn bulls from 8 to 19 months Scotch. A few heifers. All sired by Scotland's Fame=47897=, by Nonpareil Archer(Imp). John Forgie, Claremont P. O. and Station.

CLYDESDALES AND SHORTHORNS-

Canadian-bred, registered. One stallion, rising 3, by Imp. Macqueen. Two stallions, rising two, by Imp Primro.e. One filly, rising 2, by Imp. Macqueen. A choice lot. Show stuff. Also stock bull, Gilbert Logan 36424; roan; 7 years old. Safe and sure. W. O. PUGH. Claremont P. O. and Station.

FARMER'S ADVOCATE "Want and For Sale" Ads. bring good results Send in your ads. and you will soon know all about is. The Wm. Weld Co., Ltd., London, Ont.

# QUESTIONS AND ANSWERS. Veterinary.

# RHEUMATISM.

Horse has rheumatism in breast and fore legs. What is best to do? F. H.

Ans.-Keep dry and comfortable and give 2 drams salicylic acid 3 times daily. Bathe the affected parts 3 or 4 times daily with hot water, and after bathing rub well with liniment made of 4 ozs. alcohol, 1 oz. oil of turpentine, 4 drams camphor, and water to make a pint. V.

# WARTS.

Enclosed you will find a wart that I removed from the eyelid of colt. There are two or three more not quite so large. What will cure them ? I took three similar ones out a year ago. C. E.

Ans .- The practice you are following, viz., removing the warts by dissection, is the proper practice. They can be removed by applying a caustic, as butter of antimony, daily, but it is a slow process. Some animals are predisposed to epithelial growths like this, and the predisposition cannot be removed. All that can be done is to treat the growths as they appear.

# FOREIGN MATTER IN NOSTRILS

Last Saturday a yearling heifer was not well. On Sunday morning she breathed very heavily. She began to cough, and the enclosed substance was expelled from her nostril. What is it?

S. T. T.

Ans .- The substance enclosed in letter is animal tissue. It was an abnormal growth in the nostril. It is not possible to state what caused it. Such growths are liable to appear either on the skin or mucous membranes. It caused sufficient irritation to affect breathing and cause coughing. The convulsive efforts of coughing dislodged it, and it escaped through the nostrils. If no more growths of a similar nature are present, your heifer will have no further trouble. V.

# BRAIN TROUBLE-VETERINARY WORKS.

1. Three-weeks-old calf, nursing cow, stiffened and fell over. Got its head back as far as possible.

2. What is the very best veterinary work than can be got? W. A. B.

Ans .-- 1. This may not occur again. It was due to some pressure upon the brain, which may have been simply congestion of the blood vessels. If it is due to a growth upon the brain, the attacks will continue, and eventually will kill him. Nothing can be done.

2. Probably the best are Williams, in two volumes, viz., " The Principles and Practice of Veterinary Medicine " and The Principles and Practice of Veterinary Surgery," by Williams. They cost about \$7 per volume, and can be purchased from any dealers in veterinary Of course, there are many works that cost much less money, but you asked for the very best.

FOUNDED 1866

# **IF WOMEN ONLY KNEW**

Thousands of women suffer untold miseries every day with aching backs that really have no business to ache. A woman's back wasn't made 20 ache. Under ordinary conditions is ought to be strong and ready to help her bear the burdens of life.

It is hard to do housework with an aching back. Hours of misery at leisure or at work. If women only knew the cause. Backache comes from sick kidneys, and what a lot of trouble sick kidneys cause in the world.

But they can't help it. If more work is put on them than they can stand it's nee to be wondered that they get out of order. Backache is simply their cry for help.

# DOAN'S KIDNEY

will help you. They're helping sick, even-worked kidneys-all over the worldmaking them strong, healthy and vigorous. Mrs. P. Ryan, Douglas, Ont., writes: "For over five months I was troubled with lame back and was unable to move without help. I tried all kinds of plasters and liniments but they were no use. At last I heard tell of Dean's Kidney Pills and after I had used three-quarters of the bes my back was as strong and well as ever."

Price 50 cents per box or three boxes fes \$1.25, all dealers or The Doan Kidney Pill Co., Terente, Ont.



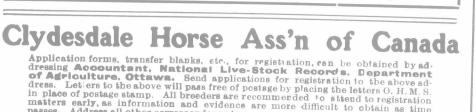


Our catalogue will help you to choose from the big-mest and fullest assortment of vehicles and harness. It accurately pictures and describes all the many styles, gives prices and fully explains our method of selling direct. Mailed free.

No. 10 Piano Box Buggy Price \$57.00.

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International Carriage Co., BRIGHTON, ONTARIO.



healthy - strengthens and invigorates the egg-producing organs-and renews wasted tissue due to prolific laying. Only 25c. and 50c. a bottle. Sold by druggists, grocers, etc. NATIONAL DRUG & CHEMICAL CO., LIMITED, MONTHEM.

MAKES HENS LAY

Your hens will lay all the year round, if

One teaspoonful to four fowls keeps hens

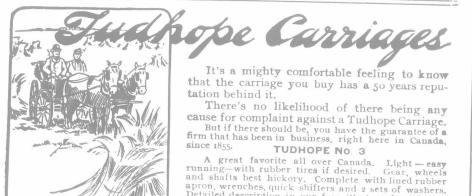
you will give them Smith's Ovary Tomic



once a week.

matters early, as information and evidence are more difficult to obtain as time passes. Address all other correspondence to

J. W. SANGSTER, Secretary, Temple Building, Toronto.



A great favorite all over Canada. Light — easy running—with rubber tires if desired. Gcar, wheels and shafts best hickory. Complete with lined rubber apron, wrenches, quick shifters and 2 sets of washers. Detailed description in our free illustrated catalogue. Write for it.

THE TUDHOPE CARRIAGE CO., Ltd. . ORILLIA, Ont.

**NOTICE:** A special meeting of the CLYDESDALE HORSE ASSO-CIATION OF GANADA is called to discuss the tollowing amendment to the rules governing the registration of imported recorded in the Olydesdale Studbook of Great Britain and Incl. nd. and where does and sires are also recorded and bearing registration number. To necepted for registration of 1 median Clydesdale Studbook, and that this action shall come into form on the first device lower 1907. The meeting to be held at the King Edward Hotel, at 2 o'clock, May 23rd, 1907. The attendance of all members is respectfully even ted.

J. W. SANGSTER, Sec.-Treas. Clydesdale Horse Association, Temple Building, TORONTO.

When Writing Please Mention Advocate

# RINGBONE-LAMPAS.

1. Filly, now four years old, was lame when a yearling. It left an enlargement like a ringbone on near hind ankle, larger on sides than in front. She was not lame since then until two months ago, when she went lame again. The lameness decreases slightly on exercise. but is bad again after standing. The enlargement has increased some. I got a sweat blister and applied it, but the leg swelled, and she is still lame.

2. What causes lampas in horses, and how should it be treated ? W. W. Ans.-1. This is undoubtedly ringbone. The swelling of the leg is a natural result of the blister, and will disappear. Blistering will not likely do any good. It is usually a waste of time and money, except in very young animals. Get your veterinarian to fire, and then blister it, and give her at least two months' rest, and be satisfied if the lameness disappears in six to eight months afterwards.

Horses over five years old are not ing just posterior to the testh. The bleeding will releve the congestion. Do

# NDED 1866

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Kidney Pill

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Ontario

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MAY 2, 1907



lumber has more

the increase the price was higher than the average farmer could pay. The use of shingles, therefore, has been growing less and less, and the progressive farmer has been using Amatite instead.

What is Amatite? It is the mineral surfaced roofing that costs less and wears longer than the "Paint-me every-twoyears-or-leak " kind.

proof, stormproof. It's the one ing really is. Write to-day with a real mineral surface and keep up with the times.

BARRETT MANUFACTURING CO., New York, Chicsgo, Cleveland, Allegheny, Kansas City, St. Louis, Boston, Minne-apolis, Philadelphia, New Orleans, Cincinnati, London (Eng.) PATERSON MANUFACTURING CO., Limited, Canadian Agents, Toronto and Montreal.

than doubled in cost. Before | that makes painting and coating entirely unnecessary. Any one can lay it by simply following the directions which go with every roll. We send along enough nails and cement for laps to complete the job.

# FREE SAMPLE

To any one interested we will send, upon request, a Sample and illustrated Booklet telling all about Amatite. We want It's waterproof, weather- | you to see how good this roof-



# QUESTIONS AND ANSWERS. Miscellaneous.

RAILWAY FREIGHT CHARGES. I shipped a car of sixteen head of registered Shorthorns from T----- to The \_\_\_\_\_ Railway received them at the reduced fare (one-half) for registered stock, and agreed to deliver them at W------. I paid the freight to W------ at the ----- Railway freight office in L------. The connecting railway refused to move this car over their line until I paid the balance of the full car rate to them over both lines. This, after I had paid the freight the ---- R. asked for the whole distance. The ---- R. took the shipping vouchers for the sixteen head. Now, can I recover the extra money other railway received ? Ontario.

Ans .- We think so.

FEEDING VALUE OF MOLASSES Kindly let me know the value of molasses in feeding growing calves, or in fitting cattle for the shows. In what proportions would you mix molasses, corn, oats, bran and oil cake, or is there anything better?

OLD SUBSCRIBER.

Ans .-- Molasses is a purely fattening food, but it tends to improve the coat and to give the animal .a general thrifty appearance. When animals learn to eat it, they generally become very fond of it, and will eat more of other food in consequence. Unless the growing calves are being fitted for show, I do not think it would pay to feed molasses. Plenty of whole milk, combined with a ration made up of about equal parts by weight of corn, oats and bran, with a very small proportion of oil cake added, will be found satisfactory for these growing calves. As to the oil cake, a very small amount should be used at first, say a small handful at a feed twice a day. As the calves become accustomed to it, the quantity may be increased, but I do not think it would be wise to exceed one cr two pounds of oil cake per day with calves under twelve months old-the younger the calves, the smaller the The same meal ration will amount. answer very well for cattle that are being fitted for show, but the proportion of oil cake should be increased, though I doubt the wisdom of feeding more than from three to four pounds of oil cake per day to an animal. As to the molasses, it should be used somewhat sparingly, as it is a somewhat expensive food, but I do not think a quart of molasses a day would do an animal any harm, provided it is thought ad-For visable to feed so much as this. reasons of economy, however, I think it would be better to feed a smaller pro-



POREST VIEW FARM HEREFORDS

THE EVANS VACUUM CAP is a practical invention constructed on

scientific and hygienic principles, by the simple means of which a free and normal circulation is restored throughout the scalp. The minute blood vessels are gently stimulated to activity, thus allowing the food supply which can only be derived from the blood, to be carried to the hair roots, the effects of which are quickly seen in a healthy, vigorous growth of hair. There is no rubbing, and as no drugs or chemicals of whatsoever kind are employed, there is nothing to cause irritation. It is only necessary to wear the Cap three or four minutes daily.

# DAYS' FREE TRIAL! 60 The Company's Guarantee.

An EVANS VACUUM CAP will be sent you for sixty days' free trial. If you do not see a gradual development of a new growth of hair, and are not convinced that the Cap will completely restore your hair. you are at liberty to return the Cap, with no expense whatever to your-self. It is requested, as an evidence of good faith, that the price of the Cap be deposited with the Chancery Lane Safe Deposit Company of London, the largest financial and business institution of the kind in the world, who will issue a receipt guaranteeing that the money will be returned in full, on demand, without questions or comment, at any time during the trial period.

The eminent Dr. I. N. LOVE, in his address to the Medical Board on the sub-ject of Alopecia (loss of hair) stated that if a means could be devised to bring nutrition to the hair foliicles (hair roots), without resorting to any irritat-ing process, the problem of hair growth would be solved. Later on, when the EVANS VACUUM CAP was submitted to him for inspec-tion, he remarked that the Cap would fulfill and confirm in practice the observations he had previously made before the Medical Board.

Dr. W. MOORE, referring to the invention, says that the principle upon which the Evans Yacuum Cap is founded is absolutely correct and indisputable.

An illustrated and descriptive book of the Evans Vacuum Cap will be sent, post free, on application.

THE SECRETARY, EVANS VACUUM CAP CO., LTD., REGENT HOUSE, Regent St., London, Eng.

When Writing Advertisers Please Mention this Paper.

### TRADE TOPIC.

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portion, and possibly just as good

sults would be obtained. G. E. DAY.

AN IMPROVED GASOLINE ENGINE. Those who consider that gasoline engines are the ideal farm power, as well as many who have been dubious concerning them, are sure to be interested in the "New-Way" model. A member of 'The Farmer's Advocate '' staff had the privilege recently of inspecting one of this make running in a shop in London, Ont., where a local agency is being established by general agent, E. S. Cooper, and was impressed with its compactness, its lightness combined with strength, its simplicity, and evident smoothness of running, and its air-cooling device instead of the accustomed water tank. This is claimed to be the first engine to cool its cylinder by means of air. The plan is very simple. A revolving fan on one side forces a current of air through a perforated iron casing, enclosing the cylinder, and we are as sured that in the hottest weather the cylinder is kept quite cool. One advantage of doing away with the water tank is a great saving in weight, an important point in a portable farm power The 6-7 h.-p. twin cylinder New-Way weighs only 700 pounds. Another point is that the two opposed cylinders give constant speed and quick recovery under a load. On another page will be found an advertisement of this engine, which is handled in Canada by the New-Way " Motor Co., Brighton, Ont. Write for free illustrated booklet; you will be certainly interested.

Four bulls from 8 to 19 months old; prisewin-aers and from prisewinning stock. Several heif-sers bred on the same lines; choice individuals, for sale. JOHN A. GOVENLOOK,

Forest Sta. and P.O.

NEREFORDS—We are now offering a few thick, smooth young bulk and a number of females—a low-dewn, even, beefy lot. If in want of something extra good, corre-good with us. We can please you. J. A.LOYBEING, Coldwater P.O. and St

**Fairview Herd Holsteins** 

Home of Pontiac Rag Apple, the cow that sold a few days ago for \$3,000. Highest price ever paid for an A. B. O. cow. I have her size, Pontiac Korndyke, the greatest living size of the breed, and also over 40 of his daughters, sisters to the one that brought the top price, and they are all good ones. Also bull calves by the best sives in the States. Write me, or come and look the herd over. Only seven miles from Prescott, Ont. E. H. DOLLAR, Heuvelton, St. Lawrence County, N.Y.

Saskatchewan Wheat land. Easy terms. \$10.00 to \$25.00 per acre.

Money making. City property.

# The Minton Mansell Co., SASKATOON.

Messrs. R. Reid & Co., Hintonburg, Ont., near Ottawa, write : " Am offering for sale two grand six-year-old imported Clydesdale stallions, good foal-getters, having travelled on same route for three years, and taken well with the public; also a fine Hackney stallion, five years old. These horses have all been winners wherever shown."

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FOUNDED 1866

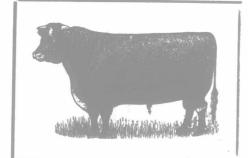
# 35 Head Imp. Scotch Shorthorns

768

BY AUCTION

At his farm, "Hollymount,"  $3\frac{1}{2}$  miles north of **Mitchell**, Ontario, on

# Thursday, May 9th '07



Mr. W. J. Thompson will sell his entire herd of 35 head of Scotch Shorthorn cattle, including the stock bull, Imp. Rustic Chief, a roan 6-year-old son of Clan Alpine. Sixteen of the cows are imported, the balance sons and daughters of theirs, all got by Rustic Chief. Nearly all the cows have calves at foot, the balance heavy in calf. All are in splendid condition, of modern type and richest breeding. See Gossip.

TERMS—Six months' credit on bankable paper, 5 per cent. per annum off for cash.

Conveyances will meet all morning trains at Mitchell.

CAPT. T. E. ROBSON Auctioneers. Catalogues on application.

W. J. THOMPSON, Prop., Mitchell, Ont.

Glenoro Shorthorns and Lincolns enoro Shorthorns and Lincon Imp. Marr Boan Ladys, Missies, Miss Ramsd. ns and Urys. Strictly high-class is quality a d breeding. Winners at Canada's leading f irs. Five grand young bulls. from 9 to 12 months old. Two from great milking dams (over 50 lbs. per day). Prices right Come and see them and you wilt boy. One hundred head of Dudding bred Lincolns. Grand crop of lambs from imp. sizes and dams. De MCGUGAN. Rodney, O A. D. MCGUGAN. Rodney, Ont.

# DOMINION SHORTHORN HERDBOOK WANTED.

The Dominion Shorthorn Breeders' Association will pay \$1 each for the following volumes of their herdbooks: Volumes 8, 9, 12, 13, 14, 15, 16, 17 and 19. Patties having these volumes to part with write for warmone and million in the second

Mr. a Martine



Just closed out the season's crop of bulls of breeding age, but



# OUESTIONS AND ANSWERS. Miscellaneous.

RAPE WITH OATS-SEEDS PER ACRE-SPRING-SOWN CROP FOR HAY-DRILLING VS. BROADCASTING

1. Is it a good thing to sow rape with oats for fall pasturage? How much to an acre to sow? Is rape good for hogs 4 months old ?

2. How much. clover and timothy would you sow to the acre? I have been sowing about 3 lbs. clover and 4 timothy, and seemed to have very good catches. What do you think about it? 3. What is a good thing to sow on a field that has been seeded down and did not catch, in order to get a crop of feed for cows in the winter? The land is rather poor.

4. What do you think of the Owego and White Jewel oats for seed? 5. Which would you prefer, sowing

oats broadcast or with drill, and how much to the acre would you sow? E. B.

Ans.-1. Whether the sowing of rape in oats, with a view to furnishing fall pasturage, is advisable or not, is a debat able question. Usually it will furnish a fair amount of excellent grazing, but on rich land, or in a moist season, it grows rank and gets bound into the butts of the sheaves, causing more or less trouble in curing the grain crop. As a general practice we would not advise sowing rape on spring grain, but would reserve the average of cereal crops for seeding to clover and grass. The amount of rape seed to be broadcasted on spring grain would be one to two pounds per acre. Rape makes an excellent pasture for hogs of all ages, though sometimes swine pasturing constantly in dense growth of wet rape are affected with an irritating skin disease from causes not perfectly understood.

2. The amount of clover and timothy seed necessary for a good catch depends on soil and season. For most parts of the country we recommend 6 to 8 lbs red clover, 2 lbs. alsike and 4 lbs timothy per acre. Three pounds of clover is altogether too little, though it might give a fair stand in some seasons It is far better for the land and more profitable to the feeder to grow clover than timothy; therefore, in seeding use as much clover seed as if no timothy were sown at all. Then if the conditions are favorable for clover, little timothy will appear in the first season's crop. The four pounds of timothy are added to the clover as a precaution, so that if the clover fails there will be some hay crop to fall back upon. The tim othy comes in useful, also, in thickening the stand in the second year.

3. Three bushels per acre of a mixture of equal parts peas and oats, to be cut in the early ripening stage, is perhaps as good as anything. It might in this case be advisable



# PILES CURED.

# ZAM-BUK SUCCEEDS WHEN ALL ELSE FAILS.

To get relief from the agony of piles. just take this simple course. Apply a little Zam-Buk, either with the hand direct or on a clean warm lint, to the piles. If internal, make a small wad of clean old lint (not new linen or cotton. as these are likely to contain the chemicals used in bleaching, which are very harmful). Melt a little Zam-Buk, and thoroughly soak the wad, then apply to the part, anointing well with the balm. Do this just before retiring, and then lie on a fairly hard mattress. You will be amazed at the ease which follows. This course taken on a few consecutive nights, and a little attention paid to the bowels to prevent or remove constipation, will be found to cure.

Mr. Neil Devon, farmer of Webbwood  $\frac{3}{2}$ Ont., says : " I was bothered for eight years with piles, and nobody knows what I have suffered. I tried Zam-Buk, and the result was so pleasing that I secured a good supply. Now I am cured." Mrs. Elizabeth Taylor, of Greenwood Ave., Toronto, whose photo we reproduce above, says: "For four years 1 suffered acutely from bleeding piles, and spent an immense amount of money on remedies' and doctors' prescriptions. but got no ease. Zam-Buk was different to everything else I had tried, and it cured me. I am grateful for the cure. and as I have never had piles once since. I know the cure is permanent."

Zam-Buk cures cuts, burns, abrasions pustules, scalp sores, itch, eczema, ulcers, boils, abscesses, blood poison, etc. All druggists and stores sell at 50c. a box. or post free from the Zam-Buk Co., Toronto, for price. 6 boxes for \$2. Send onecent stamp for postage for free trial box.

# SHORTHORNS



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MAY 2, 1907

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# S WHEN ILS.

ony of piles Apply a th the hand lint, to the small wad of n or cotton in the chemch are very m-Buk, and en apply to h the balm. and then 3. You will ich follows. consecutive paid to the ve constipa

Wobbwood d for eight body knows d Zam-Buk g that I seam cured.' Greenwood we reproour years l piles, and money on rescriptions as different ied. and it r the cure. once since abrasions

ma, ulcers etc. All ooc. a box. k Co., To-Send onetrial box.

NS them out of ges. A lot of alves cheap.

# THE FARMER'S ADVOCATE.

E think we have as great a lot of young show animals as has ever been on one farm in Canada. Our herd is large, the individuals are choice and of the richest Scotch breeding, and our prices are moderate. 15 young bulls. 25 .heifers under three years. A splendid group of breeding and show matrons. Mostly in calf to the champion Marigold Sailor = 53258 = and the prizewinning

Nonpareil Archer (imp.) =45202=. Pembroke is on the main line of the C. P. R. and the Canada Atlantic Division of the G. T. R. You can leave Toronto 11 a. m., arrive Pembroke 12.05 p.m., see the herd, and arrive Toronto next morning at 7.20. We prefer you to see the cattle, but if you can't spare the time we take special pride in filling mail orders satisfactorily.

John Douglas, Manager.

PETER WHITE, Pembroke, Ont.

R. A. & J. A. WATT Offer at reduced prices two highly-bred red SHORTHORN BULL CALVES

Belmar

Parc

Shorthorns

They are the last pair they have to offer, and are not the poorest of the great dozen they sold this winter. If you want them, come and see them at once. Elera Station, G.T.R. & C.P.R. 'Phone 42K. SALEM, ONTARIO.

Our young bulls are the best that our herd has ever produced. We can furnish Cruickshank bulls of high quality to head the best herds, and some that should produce the best prime steers. We have a bull estalogue. Send for one.

JOHN DRYDEN & SON, Brooklin, Ont. Stations : Brooklin, G.T.R. Myrtle, C.P.R. Long-distance telephone.

Valley Home Shorthorns and Berkshires

s. J. PEARSON, SON & COMPANY, Stations: Meadowvale and Streetsville Jct., C.P.R. Meadowyale, Ontario



Veterinary.

QUESTIONS AND ANSWERS,

INDIGESTION.

After mare was put in stable last fall she was troubled with griping spells, which lasted for a few minutes. I fed hay, bran and oats. Changed food to straw and corn on cob, which seemed to agree with her better. Changed back to hay, bran and oat chop, and the trouble reappeared. For the last week, she has had diarrhœa. H. V. Ans.-Give her a pint of raw linseed

oil. Follow up in about 18 hours with 2 ounces tincture of opium, 4 drams catechu and 4 drams prepared chalk, in a pint of cold water as a drench, every four hours, and add to her drinking water 1 of its bulk of lime water until diarrhœa ceases. Give her 1 dram each of gentian, ginger, nux vomica and bicarbonate of soda, three times daily. Feed on the kind of food that appears to suit her best. She has congenitally weak disgestive powers, and will need to be carefully fed and used.

NASAL GLEET-CONDITION POWDERS.

1. Young team has had distemper since last fall. They cough and discharge from the nostrils.

2. Give prescription for good condition powder. NONAME.

Ans .--- 1. This is not distemper, but the result of neglected cases of either distemper or influenza. The horses are now affected with a chronic disease known as nasal gleet, which is very hard to treat. Take 6 ozs. each of sulphate of iron and sulphate of copper and 4 ozs. iodide of potassium, mix and make into 48 powders. Give each horse a powder in damp food twice daily. It will probably be necessary to repeat the prescription, as recovery is usually very slow

2. Healthy animals should not be given condition powders or other drugs. When animals are not healthy the medicines to be given are indicated by circumstances. The idea that all animals should he given medicines in the or at any other season is radically wrong. A good general tonic is equal parts by weight of sulphate of iron, gentian, ginger, nux vomica and bicarbonate of soda. Dose, a tablespoonful two or three times daily.

Maple Lodge Stock Farm 1854-1907. Am now offering a grand lot of young Shorthorn Bulls, several from choice milking strains. Also a few extra good heifers.

769

# A. W. SMITH, MAPLE LODGE, ONT.

Six Red Shorthorn Bulls 12 to 15 months old, got by Proud Gift =50077 = (imp.); also cows and heifers, imported and home-bred. Inspection solicited. We think we have as good Shorthorn cattle as we have Lincoln sheep 14 firsts out of a possible 19, our record as Chicago, 1906.

Denfield, Ont. J. T. GIBSON,

GREENGILL HERD of high-class



R. MITCHELL & SONS,

Welson P.O., Ont.; Burlington June. Sta.

T. DOUGLAS & SONS STRATHROY, ONT.,



Breeders of Short-horns and Clydes-dales. 15 bulls, 60 cows and heifers, 1 imp.stallion.imp and home - bred filies. Write us what you want or come and see our stock. Farm 1 miles north of town.

KENWOOD STOCK FARM. SHORTHORNS,

Geeded by (Imp.) Jilt Victor =45187=. Offerings are two bull calves, an 11-months Miss Ramsden, from imp. size and dam; a 19-months Missie, by Blythesome Ruler, and other bulls; also heifers of choice breeding. A few choice Berkshire pigs just off the sow.

H VINING BROS., Highgate, Ont. Kent Co.

Brown Lee Shorthorns Present offering is 8 young bulls from 5 to 15 months old, a nice straight, good-doing tot, sired by Blenkeim Stamp; also females of all ages, daughters of Imp. Sir Christopher and Imp. Beancamp. Prices very reasonable. DOUGLAS BROWN Avv P.0. and Station

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LINCOLNS rd of Elgin. counties.

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1 imported bull, 3 two-year-olds, and 15 yearlings and calves from 10 to 18 months old-all from imp. sires and choice dams. Cows and heifers all ages, including some show animals. 1 imp Clydesdale mare four years old, due to foal May 1st. We will book orders for young Yorkshire. for May delivery. W. G. Pettit & Sons, Freeman, Ont.

PRESENT OFFERING. 75 Cows and Helfers.

Burlington Jct. Station.

19 Bulls.

Long-distance Telephone.

WESTSIDE SHORTHORN HERD AND **BORDER LEICESTER FLOCK.** 

### All Registered in the Herd and Flock Books of Great Britain.

We invite all interested to inspect the cattle and sheep on this farm. The Shorthorns are long-tried families, tracing to the pioneer herds of Scotland through channels of repute. The Border Leicester flock is one of the oldest in Scotland, and embraces blood of the highest breeding. Elections for Sale. Visitors from the States and Canada will be cordially welcomed.

A. Cameron & Sons, Westside Farm, Brechin, Scotland.



T. A. COX, Box 71, Brantford, Ont.

THE WILKINSON PLOUGH CO., Limited, Toronto, Canada GENTLEMEN,-Please send me (free) the book, "Practical Experience with Barn-Vard Manures

Name. P.O.....

Province

Have you a Manure Spreader? Answer.....

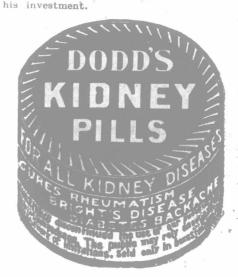
## SWOLLEN LEG. ETC.

1. Mare is not doing well. She had scratches, but I treated them successfully. One hind leg is swollen, but not sore She is fed on hay, oats and bran, and does no work except a little driving occasionally.

2. Cow is due to calve this month. Advise treatment. G. F. R. Ans.-1. Have her teeth dressed. Give a purgative of 8 drams aloes and 2 drams ginger. Follow up with 1 dram iodide of potassium twice daily for two weeks. Feed lightly on grain, and give regular exercise. Hand rub the swollen leg frequently, and bandage for three or four hours after driving.

2. Keep in moderate condition. See that she gets regular exercise. Provide a comfortable stall for her. See that she does not eat the afterbirth, and if it is not expelled in 36 hours after calving, get your veterinarian to remove it by hand. Allow the calf to nurse her for at least four days, and do not milk her out in the meantime. After that take the calf away if you wish, and milk her by hand, but do not, on any account, milk her dry for at least four days after

In every part of the country, says the Chicago Live-stock World, inquiry into the condition of the rural real-estate market develops the fact that values are still gradually crawling up. Farm land, within a radius of 40 miles of Chicago, that could have been bought at \$60 an acre five years ago, cannot be touched now for less than \$100. Great swarms of emigrants have gone to the Dakotas, and other parts of the West, and values there have appreciated in the same ratio." The farmer who pays \$150 to \$200 an acre for land must understand the same pretty well to make a good interest on





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# MAY 2, 1907

# THE FARMER'S ADVOCATE.

# Annual Ram Sale.

**KENT OR ROMNEY MARSH** 

Three Challenge Cups and other valuable cash prizes offered.

The annual show and sale of registered Kent or Romney Marsh rams, consisting selected specimens from the leading flocks of the breed, will be held on

# FRIDAY, 27 SEPT., 1907, AT ASHFORD, KENT, ENGLAND.

Catalogues and full information from

# W. W. CHAPMAN,

Secretary Kent or Romney Marsh Sheep Breeders' Association, Mowbray House, Norfolk St., Strand, London, England, W. C.



Strengthened regularly by importations from United States. England and the Island of Jersey

We have animals of all ages and both sexes for sale, and the largest herd in Canada to choose from. Write for prices and particulars.

Long-distance 'phone at farm.

B. H. BULL & SON, Brampton, Ont.



# Ayrshires **Burnside**

Imported and Ganadian-bred. Prisewinness at all the leading shows. I hold the award of menit given by the Bd. of Dir. of World's Fair, St. Louis, to the breeder of largest number of prinewinning Ayrshires at mid Exposition. Famales of all ages for mile, imported and Canadian-bred. R. R. NESS, JR., HOWICK, QUE., P.O. AND STATION.

# Springhill Ayrshires. MAPLE GLEN HOLSTEIN HERD

# **Quality Tops for Sale**

In A. R. O. test a Sylvia female has just made 605<sup>3</sup> lbs. milk and 26.04 lbs. butter for 7 days. Who wants her son by Sir Alta Posch Beets? Four other of his sons for sale. A sister to his dam has just made over 32 lbs. butter in 7 days. Prices right,

G. A. GILROY, Glen Buell, Ont.

Over 25 heifers from 6 months to 3 years of age. Nearly all of them imported, the balance bred from imported stock. A high-class lot of show stuff. A few older ones imported and Canadian-bred. Three bull calves, 1 of them imported in dam, the others bred from imported Cross of Knockdon. Anything in the herd is for sale.

Robt. Hunter & Sons, Maxville, Ont.

QUESTIONS AND ANSWERS Miscellaneous.

CHAMPION LION - WESTFIELD STAMP.

1. Can you tell me if a horse named Champion Lion was registered, and who owned and imported him?

2. Did a horse called Westfield Stamp take any prize or honors at the World's Fair, Chicago, and what, please?

ONE INTERESTED. Ans.-1. He is not registered. 2. He stood sixth in his class as a three-year-old, and was commended.

# BLOODY MILK.

Cow freshened April 7th is giving milk with blood in it. Had been getting straw all winter up to two weeks before calving, then oat chop, hay, bran slop and stock food. She appears to be in good health. V. K.

Ans .- Bloody milk is due to the rup ture of some of the small blood vessels in the udder. This is commonly induced by hereditary weakness in the blood vessels, and in such cases recurrence of the trouble cannot be prevented. However the condition is liable to occur in any cow, and may be brought on by accidental injury to the udder, or (in sum mer) by chasing with dogs. Bathe the udder well and often with cold water, and give one ounce tincture of iron in a pint of cold-but not ice-cold-water twice daily until blood ceases to appear in the milk.

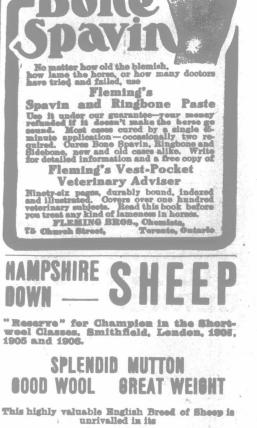
# ACUTE INDIGESTION IN PIGS.

I have a brood sow which had a fine litter of 12 pigs. They are now over two weeks old and doing fine, up to a few days ago, when one took sick and was dead in an hour. The next day another went the same way. What is the cause? Those that have died have a number of sharp-pointed teeth, of a dark color. Would you advise taking them out? The sow has been fed on peas and oat chop, and milk. W. C.

Ans.-We should judge you have been feeding the sow too liberally with strong food, and both sow and pigs have had too little exercise. The trouble is probably due to acute indigestion and pressure of the stomach upon the heart. Lighter feeding and more exercise is the best preventive, and a purgative of raw linseed oil the best treatment. The black teeth are an indication and effect of indigestion. It is well to break off the sharp points with a pair of small pincers.

## PIGS DYING.

Pigs from four to seven weeks old, while still with the sow, die suddenly. Apparently they are well in every respect until the first symptoms appear; then their hind legs fail, they grit their teeth, gasp for breath, become cold in ears, cold gradually extends over belly, belly swells some, all strength goes, and they are dead in about three hours. These pigs have good quarters, being in pens 10 ft. x 12 ft., wooden floors on a sloping cement floor, so that all is dry under them. They have no cough, and are in just good growing condition. They have been on the sow and getting separator skim milk, with a liftle corn meal in it.



Wonderfully Early Maturity.

Hardiness of constitution, adapted to all climates whilst in the quality of mutton and large propertion of lean meat it is unsur-passed, and for crossing purposes with any other breed unequalled. Full information of

JAMES E. RAWLENCE,

Secretary Hampshire Down Sheep Breeders' Association.

Salisbury, England.



Unequalled for fine quality of both mutton and wool, hardiness of constitution and earliness of maturity.



will sell by auction at

Chichester, on Wednesday August 7th, 1907

6,000 Pure-bred Fouthdown Ewes. 450 Pure-bre4 Southdown Ram and Ram Lambs.

Including consignments from nearly all the leading registered flocks in England. Commissions carefully executed. Telegrams-Stride, Chichester. Postal address :

Stride & Son, Chichester, Sussex, England.

# Lincoln Long-wool **Sheep Breeders'**

771

Brockville Stn., G.T.R. or C.P.R.

MAPLE HILL HOLSTEIN-FRIESIANS

Korndyke Teake, calved Aug. 16, 1906. Thir y-nine aires in his pedigree have sired 503 daugh-ters with official seven day butter records. Twenty dams in his pedigree have official butter records averaging 23 lbs. 1 oz. of 85.7 per cent butter in seven days. For extended pedigree price, etc., write

G. W. CLEMONS, St. George, Ont.

Lyndale Holsteins Two bulls fit for service, sired by a son of De Kol 2nd's Butter Boy 3rd; also a number of bull calves, out of Record of Merit cows.

BROWN BROS, LYN, ONTARIO. Imperial Holsteins

Bull calves for sale.

W. H. SIMMONS, New Durham P. O., Ont.

**DON JERSEY HERD** 

Our Jerseys rank second to none in Canada. Present offering. Choice Soung bulls and heifers, bred from prizewinners and great producers. Write for what you want. Visitors

D. DUNCAN, - Don, Ont. Duncan Sta, on Canadian Northern Railroad. near Toronto

Pine Ridge Jerseys For sale some choice young bulls, bred in the purple, of ideal type; also a few heifers and heifer calves. and some Cotswold shearling rams and ram lambs Wm. Willis & Son, Newmarket P, O. & Sta

Ayrshire Bulls One last Septem. ber and a few March and April calves by the champion Doug. Jasdale (imp.). W. W. BALLANTYNE, "Neidpath Farm." Stratford, Ont. Long-distance 'phone.

Stratford, Ont.

SPRINGBROOK AYRSHIRES gave an average of 7,000 lbs. of milk, testing 3.9 per cent. butter fat in 1905. A few bull calves for sale. Prices quoted for females. W. F. STEPHEN, Box 163, Huntingdon, Que.

Ingleside Ayrshires won more prizes in 1906 than all other competi-tors combined. Young stock of either sex for sale.

H. C. HAMILL, Islay P. O., Ont. Fenelon Falls or Lorneville Stn.

Wardend Ayrshires We are offering young bulls from 1 to 2 years old; also a choice lot of spring calves from deep-milking dams. Sired by White Prince of Menie No. 1825; bred by A. Hume, Menie. F. W. TAYLOR, Weilman's Corners. Hoard's Stn., G. T. R.

Glenhurst Ayrshires Oldest-established herd ia Onbario. Imp. and Canadian-bred. Average B. F. test for the whole herd, 4.2; milk yield, 40 to 60 lbs. a day For sale: females of all ages, and several young bulls; all by Imp. sire and some out of Imp. dams. James Benning, Williamstown P. O., Lancaster Sta.

Ayrshires <sup>3</sup> prizewinning bulls fit for also younger ones for quick buyers. N. DYMENT, Hickory Hill Stock Farm,

Dundas Stn. and Tel. Clappison, Ont.

AND

Scotch Collies. Robt. McEwen, Byron, Ont.

SOUTHDOWNS

Long-distance 'Phone.

H. I. J.

Ans.-It is difficult to diagnose this disease with any degree of certainty, and any attempt must be largely guesswork, as no disease of similar description is shown in veterinary works. We should incline to rank it with one of the forms of indigestion, owing to insufficient exercise, and from heavy feeding of the dam, and should depend more upon preventive than upon curative measures, as dosing pigs seldom effects a cure, and in this case the shortness of the time from appearance of illness to death would give little hope for the success of remedial effort. It is not easy to provide for exercise in winter or early spring, yet the fact that this ailment never occurs in the case of summer or early autumn litters, but is frequent in winter litters, seems to indicate that free exercise and access to the ground is a necessity in successful pig-raising. Access to gravel, ashes or grit of some kind, and the feeding of succulent food and of bran to sow and litter, in order to keeping the bowels relaxed, appears to be the best preventive treatment.

Association.

# LINCOLN SALES, 1907.

The 22nd sale of Lincoln Long-wool Rams and Gimmers, by members of this Association, will be held in Lincoln, on Thursday and Friday, the 5th and 6th of September, next.

William Franklah, Secretary, St. Benedict Square, Lincoln.



You will need them soon. See about them now. Write to-day for circular and sample. F. G. JAMES. Bowmanville, Opt.

For Sale —Ohio Improved Chester Whites, the istered herd in Canada; young sows in farrow; choice young pigs, six weeks to six months old; pairs not akin; express charges pregad; pedi-grees and safe delivery guaranteed. Address: E. D. GEORGE, Putnam, Out;

# of Choicest

772

I have on hand 75 brood sows of Princess Fame, Cinderella, Clara, Minnie, Lady Frost and Queen Bess strains. My stock boars are true to type and richest breeding. For sale are a large number of sows bred and ready to breed, boars fit for service, and younger ones of both sexes. Pairs and trios not akin J. W. BOYLE, Woodstock, Ont.

and



Woodstock Herd of Large English Berkshires a mbooking orders for spring delivery from my Imp. and home-bred sows. Come and see or write for prices. My herd was in the front rank of prizewinners at the leading exhibitions this fall. DOUGLAS THOMSON, Box 1, Woodstock, Ont

C. P. B. and G. T. R. Stations.



**Rosebank Berkshires.** — Present offering: Boars ready to breed. Ohoice young stock ready to wean, sired by Maple Lodge Doctor and Sallie's Sambo (imp.), a Toronto winner. Lefroy, G.T.R. JOHN BOYES, JR., Churchill, Ont. Long-distance 'Phone

Stand unrivalled for individual merit in the herd. Our business for 1906 surpasses former years. The enquiry for choice things increases from year to year. Some choice sows for sale due to farrow in the spring. Also a few boars on hand. Vine Sta. G.T.B. near Barrie. John Lahmer. Vine P.O.

ROBERT CLARKE, 41 Cooper Street, Ottawa, Ont.

**Cedar Lodge Yorkshires** 

100 head brood sows (imp.) and the product of imp. stock, weighing from 500 to 800 lbs. each. Stock hogs by imp. sires and dams, very large and full of quality. Young stock of both sexes con-stantly on hand for sale. Pairs not akin. Satisfaction guaranteed.

P. O. COLLINS, Bowesville P.O., Ont.



OAKDALE BERKSHIRES Largest Berkshire herd in Ontario. Stock boars and several brood sows imported. For sale: Sows bred and ready to breed, boars ready for service, and younger ones, all ages, richly bred on prizewinning lines and true to type. Everything guaranteed as represented Long dis-tance 'phone. L. E. MORGAN, Milligan P.O., Co. of York.

### ARGE ENGLISH YORKSHIRES CHESTER WHITE HOGS

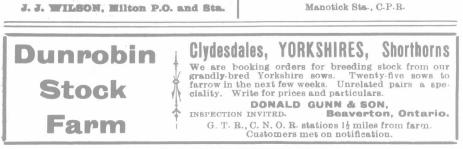
We have a limited number of choice young pigs for sale, bred from our choicest sows, and got by the imported boars, Dalmeny Joe 19577 and Broomhouse Beau 14514. Pigs from the latter won all the first prizes at the Ottawa Fat Stock Show last March for the best dressed carcaises. and sweepstakes over all breeds or grades. We guarantee satisfaction in all mail orders. Jeseph Feathersten & Sen, Streetsville,Ont.

HILLCREST



piece, a son of the \$2,500 dam. Satisfaction guaranteed. boar, Masterpiece, and

J. J. WILSON, Wilton P.O. and Sta.



ORCHARD HOME TAMWORTHS Herd headed by Newcastle Warrior. This hog won first prize and silver medal at Toronto 1905, and defeated his sire, Colwill's Choice (1843). who has won these honors three years in succession. Our brood sows are large and of the same high quality. If you want choice stock, we can satisfy you at a reasonable price. Young



The largest herd of

The largest herd of bacontype Chester White hogs in Canada. Strictly high-class have won highest awards. Young stock of both sexes always on hand. Satisfaction guaranteed.

Now offering King of

and a Contraction

# QUESTIONS AND ANSWERS. Miscellaneous

# BREACH OF CONTRACT.

I bought a pig from an advertiser, who agreed to furnish me pig for so much, and register him. I sent cash, received pig, but never got registration papers. What action should I take to secure registration papers? A. B. H.

Ans .- Write him, registering your letter, stating that if certificate of registration is not furnished within a certain time, say 30 days, you will enter an action for breach of contract. If this does, not have the desired effect, get your solicitor to write him, giving reasonable notice of action to be taken, when, if not heeded, more stern proceedings may be commenced, presuming that you are in a position to substantiate your statement of the case. We are at a loss to understand why a business man should treat a customer in this manner. It is not business in any sensible sense of the term, and will not wear.

### SEEDING DOWN HILLSIDE OR-CHARD.

I have a sidehill orchard which sowed with oats last year and put seed on it, but the seeding did not catch, as the oats grew too stout. Would it be wise to seed it down with alfalfa? If so, how would I go about to sow it? It is well drained. If not alfalfa, what would you recommend? H. A. B.

Ans .- Never sow alfalfa in an orchard, except possibly as a cover crop, to be plowed under early the following spring. Alfalla is such a deep-rooted, stronggrowing crop that it uses up too much of the soil moisture and available fertility, thus robbing the trees. We have known orchards to be ruined by it and have yet to see one where alfalfa has been growing a few years, that did not have a sickly color of foliage on the trees. Of course the result would probably not be so bad if the alfalfa were mowed each time it grew up and used as a mulch about the trees, but even then its effect would be injurious, When the orchard is on a hillside and the system of sod culture must be adopted, seed down with shallower-rooted meadow crops, say, red clover, 6 pounds, alsike 2 pounds, timothy 3 pounds and orchard grass 3 pounds. Work up as soon as possible, drag-harrow or disk repeatedly till late May or June, then when the ground is nice and mellow, sow the seed without a grain crop and harrow in.

### PEAS AFTER TURNIPS-PRE-MATURE BIRTH.

1. Would peas do well on land that had turnips on last year and was fallplowed? It is clean of weeds, that is why I would prefer it sod. Would it be too solid?

2. Calf came 33 days before the allot-

FOUNDED 1806



are mild, sure and safe, and are a perfect regulator of the system.

They gently unlock the secretions, cleas away all effete and waste matter from the system, and give tone and vitality to the whole intestinal tract, curing Constipation, Sick Headache, Biliousness, Dyspepsia, Coated Tongue, Foul Breath, Jaundice, Heartburn, and Water Brash. Mrs. R. S. Ogden, Woodstock, N.B., writee, "My husband and myself have used Milburn's Laxa-Liver Pills for a number of years. We think we cannot do without them. They are the only pills we ever take.'

Price 25 cents or five bottles for \$1.06, at all dealers or direct on receipt of price. The T. Milburn Co., Limited, Toronte, Ont.



We keep 35 brood sows, and have constantly on hand between 100 and 200 to choose from. Can supply pairs and trios not akin. Quality and type unsurpassed. Prices right.

> JAS. WILSON & SONS, FERGUS, ONT.

G. T. R. and C. P. R. Long-distance 'Phone



A number of excellent sows, direct from im-A number of excellent sows, direct from im-ported stock, in pig to Worseley Duke, Imp.; also imported sows of different ages. Young boars and sows can be supplied not akin. Orders taken for young pigs. Write for what you want.

H. J. DAVIS, Woodstock, Ont. Importer and Breeder of Yorkshires and Shorthorns.



Winner of gold medal three years in boars, 4 months old; a large number of sows, same age; also 30 suckling pigs, both sexes. Also a grand good Shorthorn bull (rosn), 10 months old



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# THE FARMER'S ADVOCATE.

You are Deaf--Read This. The Accidental Discovery of an Electrical Engineer, which Restored

His Lost Hearing.

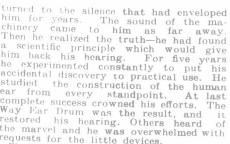
That "Truth is stranger than fiction" is most forcibly illustrated in the case of Mr. Geo. P. Way, for many years the electrical engineer of the Detroit Y. M. C. A., in the accidental discovery he made of a scientific principle, through the application of which his lost hearing was completely restored.



MAY 2, 1907

the application of which his lost hearing was completely restored. For 25 years Mr. Way was a deaf man, unable to hear his vife's voice across the table, unable to enjoy an active part in social life. For him, as for every deaf person, life was so deaf matter. He was so deaf matter. He was so deaf he could scarcely hear the roar of his engines and dynamos. For ten years he carried an ear trumpet, and had tried e very device known; had almost constantly been under medical treatment in the vain effort to get back his hearing. To - day he hears perfectly, yet when he removes two tiny devices from his ears, he is quite as badly of as before—he is again deaf. The story of his discovery, which restored his hearing, is remarkable. As Mr. Way tells it, he was at his post in the dynamo-room one day, and

restored his hearing, is remarkable. As Mr. Way tells it, he was at his post in the dynamo-room one day, and as the buzzing in his ears bothered him more than usual, he placed a curiously-shaped tuft of waste in his right ear. Immediately in the midst of the silence that is the misery of one shut off from the sounds of the busy world, there came a crashing sound, and Mr. Way bounded across the room terror-strick-en. Unconsciously he pulled the tuft of waste from his ear. Instantly he re-



Hearing. turned to the silence that had enveloped him for years. The sound of the ma-chinery came to him as far away. Then he realized the truth-he had found a scientific principle which would give him back his hearing. For five years he experimented constantly to put his accidental discovery to practical use. He studied the construction of the human ear from every standpoint. At last complete success crowned his efforts. The Way Ear Drum was the result, and it restored his hearing. Others heard of the marvel and he was overwhelmed with requests for the little devices. Wealthy business men in Detroit, who had known Mr. Way for years, and the marvelous results which his invention had brought, gave him full financial backing, to extend the blessings which his wonderful ear drums bring to those who suffer from impaired hearing and deafness. Thousands of the drums have been sold in every part of the world, as one pair of the drums in any locality produces many other sales. Nine per-sitive material, shaped to exactly fit the opening to the inner ear. It is easily and quickly placed and removed: cannot collapse; is entirely unfelt and unseen: is very durable, and it **does bring back the hearing**. Don't judge the Way Ear Drum by any other ear device. It is distinctively different in principle. If you are deaf or "hard of hearing," ii you are deaf or "hard of hearing," ii you are deaf or "hard of hearing," ii you are deaf in mealer and knows. He will be honest and will tell you whether the Way Ear Drum will help you. It costs you nothing to find out. Write personally to-day to Geo. P. Way, 521 Majestic Bldg., Detroit, Mich., U. S. A.

GOSSIP.

A carriage stallion is advertised for ale by E. W. Brooks, Glen Ross, Hastings County, Ontario.

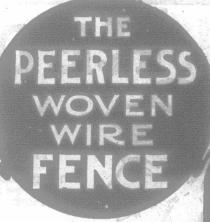
The post-office address of Mr. A. F. O'Neil, given in footlines to the portrait of his imported Clydesdale stallion, Celtic Prince, appearing in "The Farmer's Advocate " for April 25th, should read Maple Grove, instead of Maple Lodge.

Mr. Jas. Elliot, of Oxford Centre, Ont., writes that he sails May 3rd for Scotland for another importation of Clydesdale fillies, which will be sold by auction at Guelph about June 20th, further notice of which will appear in the advertising columns of "The Farmer's Advocate," when the exact date of sale is decided upon.

A special meeting of the members of the Clydesdale Association of Canada is called for consideration of the proposed amendment to the rules regarding the registration of imported stallions and fillies. The meeting, as will be seen from the advertisement on another page of this issue, is to be held at the King Edward Hotel, Toronto, on May 23rd, at 2 o'clock. See the advertisement, and be governed accordingly.

Breeders and owners of Clydesdale stallions or mares, elegible to registry in the Canadian National Records, should read the advertisement in this paper, calling attention to the importance of attending to the registering of their stock promptly. Information is given in the advertisement as to how to proceed in order to secure the necessary entry forms and the rules governing registration, the fees required, etc.

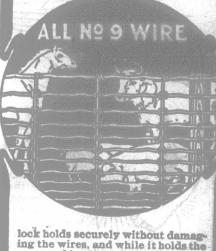
The imported Clydesdale stallion, King Thomas (12625), whose picture appears on another page in this issue, was recently imported by Mr. T. J. Berry of Hensall, Huron Co., Ont., who owns him and will stand him for service this season at his own stables at two dollars at time of service and fifteen dollars first of January, 1908, if mare proves in foal. King Thomas is a dark brown, rising 5 years, stands seventeen hands high, weighs close to a ton, has the best of feet, clean flat bone, silky hair, capital action and is thoroughly sound. He was sired by Prince Thomas, by Sir Thomas, by Prince of Wales (679), and his dam, Mary Garden (9665), was a champion mare sired by McCamon that won at the Centenary Show at Edinburgh, and was sold to the Aberdeenshire Horse Breeding Co. for £850 (\$4,250). Mr. Berry claims to have brought more than one hundred horses over the sea in his time, including many good ones, but reckons King Thomas the best of the lot.



773

The regular styles of Peerless Fence are made of heavily galva-nized all No. 9 hard drawn steel wire because this grade has been found to be the very best for the purpose. It is not too hard nor too soft, but strong and elastic. An ex-tremely hard wire breaks easily at a sharp bend, but very soft wire will stretch and has no elasticity. The Feerless No. 9 is neither soft or brittle, but has the strong elastic qualities a good fence requires.

You do not want a fence to bag or sag at the center. Peerless Fence is strong and springy. The upright wires are stiff and are held in posi-tion by the Peerless Lock. This



ing the wires, and while it holds the cross and horizontal wires firmly together, the fence is elastic and will readily conform to any land surface. Peerless Fence offers the most com-plete resistance to all kinds of stock over, under or through it. Write for our printed matter, tell-ing how to build fences and make

concrete posts.

The Banwell Hoxle Wire Fence Co. Ltd.

Dopt. B, Hamilton, Ontario, Ganadas

THE FENCE



But the fire-pot of the Sunshine

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to none. s won high ever shown fering sows dy to breed. ger ones of ad Just the

# lverton Sin. HIRES.

Berkshires assed for type and eding. For sale: A f from 5 m a. old,

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P.R. & G.T.R

# hires

aported and ed sires and red on prise-s. My brood arge, choice ang stock of imp. boars. RO P. O. UPPER FIRE LOWER to the lower half perfectly. FIRE

constructed to meet this condition. It is in two sections. The upper half expands, as much as necessary, independently of the lower. When cool, it contracts back to its original size, fitting

And this strong, unbreakable, gas and heat-tight, two-piece fire-pot is just one of the many superior features of the Sunshine.

If your local dealer does not handle the "Sunshine," write direct to us for FREE BOOKLET.

# McClary's

London, Toronto, Montreal, Winnipeg, Vancouver, St. John, N.B.

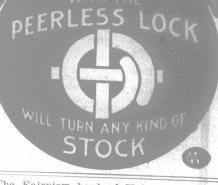


# ANNOUNCEMENT.

Fairview Farm, Woodville, Ont., is to be henceforth carried on by Messrs. J. & D. J. Campbell. The senior partner, wishing to obtain more freedom from close attention to the management, has arranged with his nephew to relieve him. Mr. Donald J. Campbell has from early childhood been on the farm, and for many years been an active helper. He will therefore be in close touch with the business, and it is the intention that breeding of Shorthorns, Shropshires and other lines shall be carried on as in past vears.

# TRADE TOPIC.

CHATHAM KITCHEN CABINET .--Invention so far has done rather more for the farmer than for his wife, though every affectionate husband is prepared to welcome conveniences to relieve the labor of the women on the farm. In this issue will be found an attractive proposition from that well-known firm, The Manson Campbell Co., Chatham, Ont., who offer to sell a useful kitchen cabinet on a liberal time-payment plan. Look up their advertisement, which shows a cut of this excellent piece of furniture, and write at once for particulars, mentioning this paper.



The Fairview herd of Holstein-Friesian cattle, property of E. H. Dollar, of Heuvelton, N. Y., seven miles from Prescott, Ont., is advertised in this paper. This herd is the home of the famous cow, Pontiac Rag Apple, that sold recently for \$8,000. Young bulls and heifers, by the sire of this cow, are offered for sale, and inspection of the herd is invited.

The excellent engraving of a group of Lincoln yearling ewes, appearing on another page in this issue of "The Farmer's Advocate," the property of Mr. A. D. McGugan, Glenora Stock Farm, Rodney, Ont., represents a typical bunch of that heavy-fleeced, strong-constitutioned breed of sheep, so much in demanJ at the present time, and selling for such high prices in England. descriptive sketch of this fine flock appeared in the "Gossip" columns of our April 25th issue.



even though you do not believe in electric belts yourself still you can't help being glad that your friend imagines that it cured him. You are but one out of hundreds who at first were skeptical, but these same men are to-day praising it as only men can who have been cured of their aches and pains by its use.

# DR. McLAUGHLIN'S ELECTRIC BELT

is a wonderful renewer of the vigor of men. Its touch is the touch of magnetism. It fills the nerves with snap. It charges the body with a grand force of vitalizing energy, and turns back the hand of time for men who have begun to feel old, broken down and feeble; men who are weak and puny, and who have lost the force of vitality, who feel gloomy, despondent and unable to battle with the affairs of life; who have Rheumatism, Back Pains, weak Stomach and Kidneys, and feel generally as if they needed to be made over to be made over

If you have been paying money to doctors and taking nasty drugs for years, and after getting no benefit from it all, you find a new lease of life after using our Belt for a month, you will be enthusiastic. You will want to go out on the highways and shout, and you won't care who knows that you were once a weaking, because now you are cured. Our Belt is easy to use; put it on when you go to bed; you feel the glowing heat from it (no sting or burn as in old-style belts, and you feel the nerves tingle with the new life flowing into them. You set up in the morning feeling like a two-year-old into them. You get up in the morning feeling like a two-year-old.

FOUNDED 1866

# QUESTIONS AND ANSWERS Miscellaneous.

# VOTING ON BY-LAWS.

1. In voting on a by-law, where it takes a majority of the property owners on the last revised voters' list to carry it, will the name of a person who has since died count in the total vote?

2. Also a person selling his property and leaving the municipality, does his name count on the list?

3. If so, can he come back and vote? Ontario. SUBSCRIBER.

Ans.-1. No. 2. No. 3. No.

# TREES ON HIGHWAY.

I have a wire fence along front of farm on the line. Have levelled the side of road from fence to ditch, and seeded down, also planted a row of maple trees about a foot and a half from fence on road allowance.

1. Can people drive along on it with buggy or wagon, cutting it up, and probably injuring some of the trees ?

2. If not, what could I do to prevent

3. Would the parties be liable to a

4. If I put a few rails on it and a person drives along and injures his rig, am I responsible for the damages ?

Ans.-1, 2 and 3. Subject to the provisions of any local municipal by-laws on the subject, we would say that they might be prosecuted before a justice of the peace and subjected to a fine. 4. It is probable that you are.

## OYSTER-SHELL BARK-LOUSE.

I have read in different issues of your paper about taking care of an old orchard, but it doesn't apply to my case. I have an orchard about fifteen years old, and some of the trees are almost dead with the bark-louse, and some of the limbs are dead at the end.

# CONSTANT READER.

Ans.-The oyster-shell bark-louse is probably one of the most widely-spread insects we have in the Province, and it is doing serious damage to many orchards where spraying is neglected. The best way to deal with this insect is to spray the trees thoroughly before the buds open with the lime-sulphur wash. This is prepared according to the following formula: Fresh lime, 20 pounds; sulphur, 15 pounds; water, 40 gallons (1 barrel). The sulphur is made into a paste with warm water, the lime is slaked and added with about 15 gallons of water, the whole being thoroughly mixed by stirring. This should be boiled for at least an hour and a half, either over a fire or by means of live steam turned in from a boiler. This mixture should be strained into the spray barrel or tank, and be sprayed the trees while warm, care being taken to cover all parts of the tree, particularly the small branches upon which the scales spread every year from the previous year's wood. This mixture causes the scales to dry up and curl from the branch so that the wind blows them from the trees. Good results have also been obtained by spraying the trees in the winter time with whitewash made of fresh lime, using about one and a half pounds of lime to a gallon of water. This should be strained before being put into the spray tank or barrel, and may be applied any time during the winter. It has an effect upon the scales similar to the limesulphur wash, but has not the beneficial effect of the lime-sulphur wash in destroying spores of fungous diseases, such as apple scab, which may be upon the branches. The oyster-shell bark-louse may also be destroyed by spraying with kerosene emulsion, while the young lice are crawl-ing from the shell to the newer parts of the tree. This takes place about the first of June. There is more or less danger, however, in using kerosene emulsion unless it is properly prepared, and it is much more difficult to apply at this season of the year when the foliage is on the trees than in the winter or early in the spring before growth begins. Trees affected with the scale should be sprayed thoroughly with the lime wash or lime-sulphur wash for two or three seasons until the trees are entirely rid of them. H. L. HUTT.

Dear Sir,-I now send you a statement as regards my Belt. It has done wonders for me. Since using it, the pains are gone. I have gained in weight and eat and sleep well. Wishing you continued success, I remain.-EDWARD LA FLAIR, almost gone. Klock, Ont

Dear Sir,—I like your Belt fine. I am well satisfied with it. I feel stronger than I have for a long time, and I can do ork. It has already proved itself to be all that you recommended it to be. Wishing you every success in your good work.— N WOODWARD Belmont Ont

Dear Sir,-I am going to tell you how things are with me now. I do not remember when I felt so well as I do now. I I have not had an ache or pain since I began using the Belt. I sleep well and when I awake in the morning I am ready to spring out of bed. I feel so happy and well that I can hardly believe that I am the same person. Thanking you very much for your kindness, and for your Belt.-C. H. MELVIN, Aylesford, N.S.

I HAVE AN ELECTRIC BELT THAT DOES CURE, and I am offering it to you in such a way that you take no chances whatever. Give me your name and address, with a statement of your case, and I will at once arrange a Belt suitable for your case, and

# WHEN YOU ARE CURED, PAY ME

PLEASE MENTION THE FARMER'S ADVOCATE.

All I ask is reasonable security for my Belt while you are wearing it.

# Call To-Day—Free Book

This book should be read by every man. It tells facts that are of interest to every man who wants to remain young in vitality at any age. "all if you can; if you can't, send coupon for our beautifully illustrated 84-page Free Book.

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