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ULY 1, 1909

THE FARMER'S ADVOCATE.

Our Knotter Never Misses

Think what satisfaction there is in I hink what satisfaction there is in knowing that no matter how strenuous-ly the knotter on our No. 3 is worked, it will tie every sheaf. Tested repeatedly under every condition, it has proven itself the surest and best.

Binding attachment can be regu-lated to tie any size bundle. We guar-antce our binder for one year against defective construction and workman-ship. So you see every part must do its work properly or we are the losers.

Advertise your

fancy stock by means of first-class

DRAWINGS

AND

ENGRAVINGS

Bend us your photos,

and our stock ar-

tist will bring out the

THE

IURONIU ENGRAVING

COMPANY LIMITED. TORONTO - - - CANADA

points.

The No. 3. Binder,

Inter INO. J. Diffuer, like all other Frost & Wood implements, is made in a NEW plant. Unlike others, we've no obsolete machinery side by side with the latest. Everything is modern in our factory. Furthermore, we exercise minute care in selection of materials. Everything, to the smallest bolt must be first-quality, even when cost is higher than others deem necessary. And the patterns we use are what our 70 years' experience has demonstrated will longest withstand the heavy work and rough usage connected with Canadian farming. Get Binder Catalogue F ⁺, and thoroughly post your-self on the Improved No.3 **THE FROST & WOOD CO., Limited SMITH'S FALLS**

SMITH'S FALLS CANADA

FROST

Frost & Wood Nº 3 BIN

8

The horses rejoice at the wisdom displayed by the builders of Frost & Wood No. 3 Binder in providing Large Roller and Ball Bearings at every point where wear would otherwise occur. If your horses could speak English, they would urge you to buy the easier-running, lighter-draft Frost & Wood No. 3 Binder.

Roller Bearings Lessen

Draft

Eccentric Sprocket Wheel eliminates that "jar" common to other binders when bundle is tied and dis-charged. Relieves strain from "jar" that otherwise falls on horses, operator and machine. Also makes a neater, tighter bundle and discharges it more quickly and smoothly.

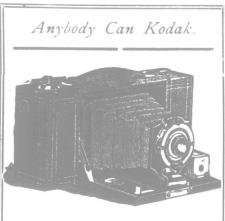
Another "Sunshine" Feature

This is an entirely new idea, and will especially interest people who reside in natural gas districts. The gas ring takes the place of the lower Sunshine fire-pot, thus making it possible to burn gas in your furnace without inconvenience. Such is not possible in a furnace where the ordinary gas log is inserted; for, should the gas give out, a coal or wood fire could not be started until the gas pipes were disconnected.

To provide against sweating in the summer time, Sunshine Furnace is equipped with a nickelled steel radiator and dome. All bolts and rivets are nickelled, all rods copper-plated. This special treatment, besides meaning quicker and greater radiation from the radiator and dome than cold chill iron could possibly give, acts as protection for the bolts, rivets and rods from inroads of gas. When cast iron comes in contact with our nickelled steel it is coated with our special Anti-Rust treatment, which prevents the slightest possibility of rust commencing anywhere in Sunshine Furnace.

The Gas Ring





1063

Folding Pocket BROWNIE

Pictures, 21/4 x 31/4. Price, \$6.00

The Kodak simplicity and the Kodak daylight loading features are all embodied in the Pocket Brownies. Made in the same factory and by the same skilled workmen who manufacture the Kodaks, they have in them a quality that would not be possible under any other conditions.

They are not made of the most expensive material, but they ARE carefully made by perfect machinery in large quantities, and each one must undergoethe regular Kodak inspec-tion. They are not expensive, but they stand the one and all-important test-THEY WORK. Their equipment is such that they are perfectly adapted to snap-shots or time exposures, and the amateur may, by providing a Dollar Brownie Developing Box, do his own developing without a dark-room, or may leave it to another-just as he chooses.

The No. 2 Folding Pocket Brownie makes pictures $2\frac{1}{4} \times 3\frac{1}{4}$ inches, loads in daylight with Eastman N. C. Kodak film for 6 expo-sures, has a meniscus lens of $4\frac{1}{2}$ inch focus. Has our Improved Pocket Automatic Shutter with iris diaphragm stops, has reversible finder and two tripod sockets. By means of the automatic focusing lock it may be used either as a fixed focus or a focusing camera, as de-sired. Measuring but $17_8 \times 3 5 \cdot 16 \times 6\frac{3}{4}$ inches, and weighing but 16 ounces, it is in every and weighing but 16 ounces, it is in every sense a pocket camera. Handsomely finished and covered with the finest imi ation leather. Durable, sensible, practical, inexpensive to operate. PRICE, \$6.00.



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This little box has made the developing of negatives as simple as "pressing the button." Any amateur can now develop his own film with the certainty of getting the best possible results from every exposure. NO DARK-ROOM for any part of the work. Every step is easy with a Brownie Developing Box. PRICE, \$1.00.

RIDING

Toronto, Can.

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And Essy Solf-Measuring Forms. B, R. D., Farmer's Advocate, London, Ont.

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WHAT A CUSTOMER BATS: Dear Str. Bresches to hand, At all that can be destrad; they cortaining are better than a pair I paid 21. for a fav months ago. Please beep measures.—O.H. This gentleman measured himself according to our casy measure instructions MADE TO YOUR MEASURES. Testimonicals from all parts

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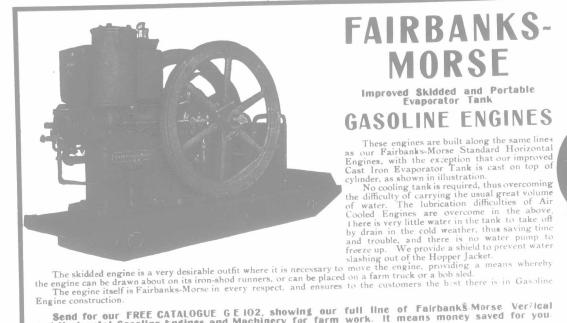


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THE FARMER'S ADVOCATE

FOUNDED 1863



MORSE Improved Skidded and Portable Evaporator Tank **GASOLINE ENGINES**

Send for our FREE CATALOGUE G E 102, showing our full line of Fairbanks. Morse Verilcal and Horizontal Gasoline Engines and Machinery for farm work. It means money saved for you.



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this **Catalogue**

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Wheel Co., Limited,





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Che Farmer's Mavocate and Home Magazine "Persevere and

Established 1866.

REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875.

No. 875

EDITORIAL

Succeed.'

Vol. XLIV.

Dominion Day-the birthday of the nation !

across the country, from the Peace River District of Alberta, to Quebec and the Maritime Provinces. moving out of Lake Athabasca.

the half-yearly index covering the articles and illustrations from January to June, \$909. Save gether, with the number containing the index on

tion. Conjoined with attractive selling values, make throughout Western Ontario, and somewhat Province, although in some localities factories

Twenty-four billion dollars! Such is the debt of Europe, owed to the unseen empire of finance, the money-lenders of the world, according to E. Alexander, in the Saturday Evening Post. dollar debt has been piled up in sacrifice to the tiendish god of war. Yet we call ourselves civilized. How such figures must impress the heathen as to the beneficence of Occidental religion !

. In acre of soiling crop will produce more nutriment than several acres of closely-grazed pasture. If the meadows seem likely to be short, t will be the part of economy to help them out

LONDON, ONTARIO, JULY 1, 1909 Speed the Plowing.

From the pointed stick of the ancient Egyptian, forced through the ground as it was drawn forward, to the improved, twentieth-century, twofurrow plow of the Canadian, seems a far call. Yet, leaving out of account the steam gang implement, popularly associated with bonanza farming, it is remarkable, through all the passing centuries, how slow has been the progress of improvement in this most primal of tillage tools. As a means of inverting and stirring the top soil, thereby preventing the growth of weeds, incorporating fertility (applied or grown), and improving the mechanical condition of the soil by aeration and drainage, so that its elements may become available for plant growth, the single-furrow walking plow, during the past century, in Great Britain and America, probably reached its highest stage of excellence. Different views have been encertained as to the depth and style of the furrow. but plowing itself continues the fundamental process in soil culture; and yet, in the matter of Another dairymen's year. Twelve-cent choese is speed, on the ordinary farm, the plow remained a money-making commodity, even under present as it was for generations. The self-binder displaced the cradle; tillage and having machinery of wide sweep supplanted the slow and primitive we have the assurance of a considerably increased tools of former days, but the plow still turned its single narrow strip, at the rate of $1\frac{1}{2}$ to $1\frac{3}{4}$ acres of a betterment, also, in the eastern part of the per day, with the service of a man and team. The first advent of the double-furrow plow many years ago met with a reverse, because of the heavy draft and other reasons, due, perhaps, to structural defects. But the scarcity of labor and the ever-increasing value of time in farming operations has again brought the implement to the front. The foremost plow manufacturers of the country have addressed themselves in eirnest And most of this monstrous twenty-four-billion- to its improvement, so that it now bids fair to hold its place as an efficient implement and a real

The uncertainties of weather make it imperative that plowing be done more speedily, and at the right time. Almost invariably, the early crops are the best crops, and plowing absorbs the most time. Then, again, in a dry autumn like that of 1908 there were many farms where the soil became so hard that the ordinary single plow ground over properly. In some cases, even a two-furrow walking plow, with the three-horse team, was scarcely equal to the task, but we have in mind cases where a riding plow and four horses abreast achieved the seemingly impossible, and did it well, the added weight of the operator holding the plow Effective use for the two-furrow implement has been found in doing the regular fall plowing six or seven inches deep, of stubble land soon after harvest, instead of the plan of early skimming, with deeper plowing nearer winter, a laborious and not altogether satisfactory method. Should the cate." This is the right way of looking at the land show a growth of weeds under the new plan, matter. The true and beneficent way to solve the use of the cultivator is advised. It may be said that the two-furrow plow is hard on the horses, and it must be conceded that, how much we can safely afford to pay. When where three horses and one man perform almost every employer is anxious to devise means of paper two years ago, he remarked that "On the the work of two men and four horses, extra effort making labor more productive, so that he can Experimental Farm the largest machines available is being put forth, or more units of work per- afford to pay his men better, agriculture will be are used, since the land is fairly free from stone, formed. Even were four horses required, the on the highroad to progressive economy. Surely and fairly even, a seven-foot mower, a twelve- time of one man would be saved. To accomplish the laborer is worthy of his hire. Efficient, wellthis, good horse-power will certainly be required, paid labor, with modern, labor-saving methods, sagons, being the rule." When one has a com- The real point is, however, do we get the added will produce much more than cheap labor, with piete outfit of the narrow-swath machines, econ- result in plowing ? People do not object to big the time-consuming practices which it tends to ony may compel him for a time to make the best crops because they abstract plant food largely perpetuate. In the long run, an era of high them, but when buying new ones, get the from the soil, for they have the crop, and there is wages, and efficient farm help will render condiingest ones made, except, perhaps, for very rough the residue in the soil. Is it lazy-looking, and a tions more favorable to all who are engaged in very marshy land, or possibly on very small hardship on horses that a man should ride the the industry, and by no means least to the emplow ². If he feels that way about it, why, he is plover himself.

not compelled to use a riding plow. But is it a "hardship" for the three or four properly-fed horses of the blocky type ? Suppose it were an onerous task, when the issue is between man and horse, which is to bear the brunt of toil? What are farm horses for ? The plowman who uses his horses aright on a single-furrow plow will not likely abuse them, even though he turns over from three to foun acres of land in the day's work, and right there lies the great advantage of the plow that turns two furrows instead of one.

In usage, dependent upon soil and other conditions, some localities prefer the walking plow, while others elect to ride. In our own observation, it appears to be largely a matter of local custom. When three horses are used, two walk on the land and one in the furrow, but when four are used, one walks on the plowed ground, and * should be given some advantage on the doubletree. It is preferable to turn to the left; and if there is a furrow of the previous plowing to follow, it can be used for "striking out," though some use the single plow both to "strike out" and finish the furrows, one hitching-up sufficing for each operation. Narrow headlands are best done with the single plow. Wide lands and long fields are the natural complement of the two-furrow plow, in order to the greatest saving of time. In starting the plow for the first time, the aid of an expert will effect a saving of time in learning the use of levers and making proper adjustment for depth and width of furrow, and of the horseevener. Though more expensive, the rolling coulter is very generally preferred, as it makes a cleaner cut of sod, weeds or lumps, and the friction is probably less than with the straight, rigid style. The use of the two-furrow plow on very hilly or rocky farms and hillsides is, perhaps, inadvisable. While fancy furrow-turning of the plowing-match style may not be generally accomplished by the two-furrow plow, still we are satisfied that, with the structural improvement being made, and the more thorough knowledge of how to select types of plows suitable to different " soils, such as sand, heavy clay, or clay loam, work will be done which the expert, with the wheelless, single, walking implement of yore, might concede as entitled to the designation of PLOWING.

undertaken to In the foregoing we have not



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lement in ers at 50 rious dis-NTARIO. to terms, pecial rail-

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Toronto.

by cutting some green alfalfa, clover, or even grain, to feed the cows, either in stable or in held, preferably in the stable at milking time. Particularly if there be a lodged patch, should it be used in this way, as such areas not only produce ill-filled heads, but are quite likely to

ing operations in those critical periods when the the work with, but whether it will enable the while performing it. J. H. Grisdale, Agriculturist of the Central Experimental Farm, Ottawa, foot horse rake, and sixteen-foot racks on the

more than outline the chief points in the use of the two-furrow plow, and should be glad to hear from readers who have had the experience of a season or two in its actual use, with any observations that they might consider useful to others in adding such an implement to their outfit of farm machinery.

"The supply of farm laborers about equals the demand, while good wages are paid ; and who is more deserving of it ?'' writes an Ontario ('o, correspondent of "The Farmer's Advothe labor problem is not to try how cheaply we can manage to get help, but to study and plan

THE FARMER'S ADVOCATE AND HOME MAGAZINE.

1066

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

PUBLISHED WEEKLY BY THE WILLIAM WELD COMPANY (LIMITED)

JOHN WELD, MANAGER

AGENTS FOR THE FARMER'S ADVOCATE AND HOME JOURNAL, WINNIPEG, MAN.

- . THE FARMER'S ADVOCATE AND HOME MAGAZINE is published every Thursday.
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- 3. ALL COMMUNICATIONS in reference to any matter connected with this paper should be addressed as below, and not to any individual connected with the paper.

Address-THE FARMER'S ADVOCATE, or THE WILLIAM WELD COMPANY (LIMITED), LONDON, CANADA.

Nova Scotia, 1909, Legislation of Interest to Farmers.

A PUBLIC UTILITIES COMMISSION

No legislation of a distinctively agricultural character was passed by the Legislature of Nova Scotia during its session of 1909. However, several acts were passed which will prove of great importance to the farmers of the Province. first, at least in numerical order, is the act relating to the control of "public utilities." This act was passed in response to a strong agitation by the citizens of various towns and members of the Provincial and County Farmers' Associations,

turn to the Board, setting forth the amount of its authorized capital, its capital paid up, its liabilities and assets, its receipts and expenditures for the preceding year, its dividends paid or declared, and such other statements showing its financial condition, as may be required by the Board.

Every public utility shall file with the Board schedules, which shall be open to public inspection, showing all rates, tolls and charges, and no change can be made in such schedule without filing such with the Board.

No public utility shall receive a greater or less compensation for any service performed than is prescribed in the schedules which are at the time in force. Discrimination in favor of any individual, firm or corporation is liable to a penalty of not less than fifty dollars, nor more than five hundred dollars. A similar penalty attaches to the person, firm or corporation which shall solicit, accept or receive any rebate, concession or discrimination.

On the other hand, the act provides all public utilities the right, when not paid for service rendered, to discontinue the service, and to enter private premises and separate and take away such appliances as belong to the public utility.

CONTROL OF TUBERCULOSIS.

Another important act was that in amendment to "The Public Health Act," and refers to methods of dealing with tuberculosis. The Act states that, it shall be the duty of every physician attending a person suffering from tuberculosis to report to the Provincial Health Officer the particulars of the case.

The act also states that every city, town or municipality may, by by-law, establish and maintain local hospitals or sanatoria for the accoumodation and treatment of advanced cases of tuberculosis, for which purpose they are hereby authorized to issue debentures.

The council of every town or municipality shall also have power to make by-laws for the cleaning, purifying, ventilating and disinfecting of public and private buildings, for preventing expectoration in public places, and the locations and regulation of slaughter-houses

No person suffering from advanced pulmonary in the handling of foodstuffs

STATISTICS AND OTHER MATTERS.

Another act, intended to facilitate the securing of facts, statistics and other information relating to agriculture, fishing, mining, etc., provides that it shall be the duty of the Secretary of Industries and Immigration to distribute schedules, etc., for the purpose of securing this information. This act attaches a penalty to the person who wilfully or without lawful excuse refuses or neglects to fill up any such schedule.

This act will lead to the securing of much more reliable information relative to the industries of the Province than has heretofore been provided the public.

consist of amendments to the Public High vay Act, which, it will be remembered, was a special feature of last year's legislation, according to which the highways were placed under the supervision of a road inspector for each municipality. The act relating to the protection of forests was also amended, with a view to insisting upon a

in our farmers' societies and associations, viz., that, when assembled in conference, they will pass various measures relative to their own interests, but when the conference is adjourned they seem to give the matter no further active support. It would seem as if many conferences and meetings were considered as ends in themselves, instead of meetings for deliberation upon issues of mutual interest in regard to which it was intended to take definite action.

Hay or Straw?

As these lines are written it seems likely that the current number of "The Farmer's Advocate" will find some of its readers engaged in or about to commence haying operations. What is the crop to be-hay or straw? Millions of tons of good grass and clover, especially the latter, are annually converted into a product more nearly resembling straw than well-cured hay, in respect to palatability and feeding value. Late cutting, hasty curing and failure to sweat the clover in coils are some of the errors most commonly te-Then, bran is bought at twenty or sponsible. twenty-five dollars a ton to make up for the deficiency between clover straw and an early-cut, wellcured quality of clover hay? Does this pay?

HORSES

To Exhibition Secretaries.

Editor "The Farmer's Advocate

Allow me to thank you for inserting my last letter, re the registration of Hackney horses. in your valuable journal; also to congratulate you on the very wide circulation of "The Farmer's I have received inquiries in this matter of inspection and registration of Hackney mares and horses from Quebec, St. John, Vancover, Manitoba, Saskatchewan, and a number of places in Ontario.

May I ask you to say that the Canadian Hackney Horse Society will be pleased to hear from Secretaries of Fairs and Shows who give classes for Hackney horses and mares, as this Society intends giving a very handsome Rosette, with the photo of this year's champion at the London Hackney Society's Show in the center, for

1. Best Hackney Stallion, any height, any

Best Hackney mare, any height, any age. All competitors to be entered in Canadian llackney Studbook.

The undersigned will be pleased to hear from the various secretaries in relation to the above. I am also pleased to tell you that the various reports heard from owners of Hackney horses are of the very best, and there is a great demand for well-broken horses of this breed.

Toronto, Ont. H. M. ROBINSON, Sec.-Treas

Advantage of Mowing in Strips.

FOUNDED 1866

a measure of Government control over such public utilities as electric power and telephones.

The act provides that the Governor-in-Council may appoint three persons who shall constitute a Board of Commissioners of public utilities. The salaries and expenses of this Board shall be borne by the several public utilities, according to their gross earnings.

The act defines " public utility " as follows " Public Utility " means and includes every cor poration, company, person, association of persons. their lessees, trustees, liquidators or receivers appointed by any court that now or hereafter owns or may own, operate, manage or control, any plant or equipment for the conveyance of tele phone messages, or for the production, transmis sion, delivery or furnishing of heat, light, water sion, delivery or furnishing of heat, light, water

furnish reasonably adequate service, and that the charges shall be reasonable and just, every unjust

Every public utility shall annually make a re-

Of interest to those owning dyked marsh lands is the act amending that relating to the improveprovision by which any owner of such lands who has no access by road or right of way to a public highway, can have such road located.

REACTIONARY DOG LEGISLATION.

the County of Halifax. These by-laws provided for the taxing of all dogs owned in the County tection of sheep through the control of dogs. Province, where the question was discussed, but in favor of drastic legislation against the dog; but it is curious to notice that, whenever the matter becomes a live issue, either these men fail to urge their ideas, or are dominated by those who do not belong to farmers' organizations. In

In mowing a square field, the teamster is sometimes puzzled as to whether it is better to drive round and round, or to split the field into two or more strips. Some think it makes less turning to divide the field. This is a mistake. The number of turns will be exactly the same in either case. Nevertheless, there are certain distinct advantages in dividing the field, for, while it does not lessen the number of turns, it reduces the number of awkward ones. A narrow strip may be shaved down from each side, the end turns being made at the last with a free, circling swing, without bothering to stop and cut across, whereas a square piece is shortened as fast as it is narrowed, involving many square turns at the

There is the further advantage of being able "lands" or "ridges," instead of crossing furrows half the time, as in a square piece. other advantage is the subsequent convenience of raking, for, with a field mowed in strips one may commence raking at one side, and, workthe same stage of curing, whereas otherwise it would be necessary to go round and round with the rake, in order to accomplish this result.

When the new hay comes in, the horses will want to eat more than is good or safe for them. Po not fill the mangers so full at night that there D 1866

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Strips.

JULY 1, 1909

THE FARMER'S ADVOCATE

Heavy Horses Pay.

In the southern part of Dufferin County, and particularly in Luther Township, George Clayton & Sons are recognized as being among the successful horse-breeders. On a 200-acre farm about filteen horses are kept, half of which are purebred Clydesdales. Each season about six mares are bred, and the offspring sold generally at the age of two years. The stock always is almost

in shape for the show-ring. "This season," said Mr. Clayton to "The Farmer's Advocate," "we are having about average luck. We bred six mares last summer, and four are in foal. Sometimes we do better, and Some may think it does not sometimes worse. pay to raise heavy horses, but figures perhaps will show that it does. We had a grade mare that died last fall at the age of eighteen. She raised us six foals, three of which we sold as follows: \$200, \$185, and \$225. The other three are still on the farm, and we value them at 200, \$250, and \$200. Another eleven-year-old mare has had four foals, raised three, and is due to toal again this July. We value her, oldest, a mare now with foal at foot, at \$400. Another is a stallion worth \$550, and her yearling is alued at over \$200.

We seldom sell yearlings. Usually, pasture and stable feeds are abundant, and it pays to hold them until they are two years old, especially the fillies. The male colts not kept as stallions are castrated in June as yearlings, and put in high condition the winter after they are two years

Our brood mares are worked before, but not after foaling. We like to have our horses fit to go to the fall fairs, and raising a foal is enough. During the summer, pasture is sufficient, unless t becomes dry and short, in which case they are stabled, and given hay and oats three times a day, being outside at nights. Fillies are weaned and put in box stalls, with clover hay, oats and bran as rations. Occasionally roots are fed, and in some cases a handful of ground flax twice

Heavy Draft Horses.

The accompanying photogravure of heavy drait teams, exhibited at the Winnipeg Industrial Exhibition last year, twelve pairs competing, also that of the six-horse team shown by Nelson Morus Company, of Chicago, at the International Horse Show in Old London, recently, are interesting illustrations of the growing popularity of heavy horses in America, while the increasing demand prevailing, and the high prices obtainable for horses of this class, indicate that the breeding of heavy-drafters is a decidedly profitable branch of stock-raising. There is little likelihood of the market for this class of horses being oversupplied. as the settlement of the vast areas of the West will for many years call for an increasing number of work horses, as will also our constantly-growing towns and cities. The increased interest taken in high-class heavy horses in the Western Provinces speaks well for the future of the industry, and the display of this class at the leading shows of those Provinces is exceedingly creditable to the ambition and enterprise of the farmers of that section of the Dominion, who display good judgment in aiming to produce the best, since it is the class that commands the highest prices, and the best is none too good. With the services of so many high-class sires as are now available, the character of Canadian horses should be well maintained, provided care is observed in the breeding, selection and retention of a suitable class of mares.



Brood Mares at Work.

Type of mares from which Geo. Clayton & Sons, of Dufferin Co., Ont., are making money.

LIVE STOCK.

College Beeves.

Some fine cross-bred calves, being rapidly forced into baby beef, are, as usual, one of the features of interest to the O. A. C. excursionists this year. The best specimen is an Angus-Shorthorn-always a good cross-which, at eight months of age, weighs 570 pounds, having, since February, 22nd, made a daily gain of two and two-thirds The others are gaining about two pounds daily. It is but fair to say that they Three have only been weaned about a month. pure-bred white Shorthorn steers were shown, two of them orizewinners at the fat-stock show

and all excellent animals. One, at 15 months, weighs 960 pounds. The very smooth, blocky type of steers make scarcely the gain that the more growthy specimens do.

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Weaning the Lambs.

When lambs are four months old, they will, as a rule, thrive better if weaned, provided they have good fresh pasture, than if left longer with their The milk supply by that time is genmothers. erally failing, as in most summers the pastures become dry in the latter part of July and during the following months, and as the lambs are depending upon their mothers largely, they do not get enough sustenance from that source to make them grow well, and their insistent demands upon the ewes pull them down in condition, too. Usually, soon after the hay crop is harvested, fresh feed is found in the aftermath, which is very suitable for lambs, especially if it is principally clover, and the youngster should have the first chance to benefit from it.

It is well, when they are separated from their dams, that they be kept some considerable distance apart from them for the first few days, so that they may not hear each other calling, and the ewes should be kept on dry pasture for a week to skrink the milk flow, while any which show overfull udders should be milked two or three times, to avoid trouble in that quarter. The lambs should have access to pure water at will, and have salt at least once a week, or, better, a constant supply, kept under cover, so that they may partake of it when they require it. A change of pasture is relished by the sheep, as by most kinds of stock, and for variety, the lambs may do better for it, even though the feed be not more abundant. In the case of pure-bred lambs, intended for sale in the fall for breeding purposes or for exhibition, they should be fed twice a day a ration of oats and bran, with a little nutted oil cake added a little later on, in a trough in the field, or better, under cover in a shed, if concenient. The lambs will also be better for having access to a clean, partially-darkened shed for shelter from flies and the heat of the sun. Sheep or lambs intended for exhibition will stand shipping much better, and will fail much less, for having been grain-fed. Attention should be given to clipping and squaring the tails of the lambs when weaned, and again later on, if necessary, for cleanliness and better appearance.

It is good practice to have a patch or field of rape coming on for fall pasture for the lambs. This may be sown as late as the middle of July, and is best sown with a drill in rows about 24inches apart, so that it may be horse-hoed, to hasten its growth. Rape will do very well sown broadcast in a favorable season, but will be more injured by tampling than if sown in rows. There is no pasture equal to rape for growing and fattening lambs in the fall, and frost does not injure its feeding value, but rather improves it, so that the lambs will thrive and fatten on it right up to

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Heavy Draft Teams at Winnipeg Exhibition, 1908.

winter, and even after it is partially covered with snow. It is rarely that a lamb bloats on rape, but older sheep are liable to this trouble, and should be gradually introduced to it, being careful at first not to let them on the rape while it is wet with dew or rain, and they will be better for access, also, to a grass pasture field, but lambs will thrive and fatten on rape alone.

Sheep as Weed Destroyers.

The fact that sheep, more than any other class of farm stock, relish a variety in their diet, may weil account for their usefulness in destroying weeds which give trouble in crop-growing, robbing the crops by extracting moisture and fertilizing properties from the land which should go to the nourishment and development of the crop, and which, if allowed to seed, multiply their kind It is believed that quite ninety per rapidly. cent. of the weeds that trouble the farmer are relished by sheep, and these include practically all the weeds that require special methods of treatment for their destruction. With the aid of a flock of sheep, and by judicious management, farm may be cleared and kept clean of nearly all weeds, while those which remain may be so kept in check as to give little trouble. While sheep, on their own merits as producers of meat and wool, are too valuable an adjunct of farming to be treated as mere scavengers, and allowed only the refuse of available stock food, the fact that, from choice, even when given the run of good pasturage, they will consume weeds as an appetizer, and that they prefer the short, sweet nibble of grass to that which is rank and knee-high, adds to their value, and places them in the front rank in the list of live stock as profitable producers. It is easily capable of demonstration that, considering the cost of production in labor and value of feed consumed, and comparing the average prevailing market price per pound in a series of years for sheep alive or for mutton and lamb, with that for cattle or hogs, alive or dressed, the odds is regularly in favor of the sheep; while the fleece, which is an extra product not yielded by the other classes of stock, when prices for wool are fairly good, will nearly, if not quite, pay for the keep of the flock the whole year, while the yearly crop of lambs, as a rule, means an increase of 125 to 150 per cent. Referring to the matter of weed destruction by sheep, in bulletin No. 12 of the Dominion Department of Agriculture, by J. B. Spencer, B. S. A., of the Branch of the Live-stock Commissioner, appear letters of testimony from experienced flock-owners, from which we quote the following

A. D. Gamley, Griswold, Manitoba : $^{\circ}$ I feel ashamed that, after keeping sheep so many years, I am unable to give you the names of all the noxious weeds sheep will destroy, but I have no doubt the reason is on account of the sheep. These weeds never bothered me much, and in this respect I was not observant ; however, it seems to me that they eat them all, with the exception of the blue burr and thistles. Before coming up here from Brandon, I kept from 100 to 120 breeding ewes, and had unlimited pasture, where they were herded from seven in the morning until five or six in the evening, when they were turned fibto a 70-acre pasture field, and where they also re-

mained on wet days. There never was a weed to be seen in this pasture. In the fall, after the grain was stacked, they were turned onto the summer-fallow, which had grown heavy with weeds. Because I had no fencing then, I could not turn in the sheep until the grain was nearly all stacked. In a very short time the field would be as bare as a billiard table. I might say that, in one or two years, when wheat was being docked from two bushels to five and seven bushels to the load, I was shipping my own wheat from Martinville, and had the grade certificates come back marked no dockage, and one per cent. is all I was ever docked. My summer-fallows would be from 40 to 70 acres, and at times it would have from 175 to 240 head, including lambs, feeding upon it.

Richard Gibson, Delaware, Ont., writes : " On my present farm, purchased a number of years ago, the pastures were overrun with the weeds known as blue weed, locally called 'blue devil.' One eighty acres was a complete mass of blue flowers, admired by all artists or poets who passed thereby. I doubt if to-day 100 plants are in flower on those eighty acres. Sheep alone did it, and registered Shropshires at that. The sheep disdain eating this plant until the flowers are in evidence, then they nibble the heart out, flowers and honey-not a bad combination, especially for I believe sheep would eradicate wild sheep. mustard, if used intelligently for that purpose That they are very fond of it in two stages of its growth I am convinced. They eat it readily when very young, and again when in blossom. I cannot bear this out from experience with wild mustard, but I do know that in my part of Lincolnshire white mustard was extensively used as a forage plant, more particularly for breeding ewes during the autumn.

John Campbell, Woodville, Ont., writes : " The sooner a flock of sheep, good of its kind, is kept on practically every farm, the sooner will the income be materially increased, with the least cost for labor: and that not alone because of the direct profit, but also because of the very impor tant part a flock plays in keeping weeds under control. At an Institute meeting in Western Ontario, last winter, one farmer gave his experience along this line. Until some ten years ago he kept sheep, had a clean farm, and weeds were nearly unknown. Following the fashion set by some of his neighbors, the sheep were sold, and soon after weeds demanded constant attention. Bad grew worse, until it was determined to stock up with a flock. The sheep came, and in a few cears the weeds were once more under control That is a fair sample of reports from members of flock-owners where sheep are utilized as weed-

Among the noxious weeds mentioned in other letters which are eaten by sheep are sweet clover, ox-eye daisy, sow thistle, ragweed, wild vetches, milkweed, burdock, dandelion, golden-rod, lamb'squarter, wild carrot, ribgrass, ragwort (the source of the Pictou cattle disease), by which sheep are not harmed.

Experiments to determine the comparative feeding-value of whey, pasteurized, skimmed with separator, and just as it comes from the factory, are being carried on this year by the Animal Husbandry Department of the Ontario Agricultur-

al College. It is not expected, however, that at the College farm, where whey is received daily fresh from the Dairy Department, so much advantage from pasteurization will be shown as under ordinary cheese-factory conditions.

FOUNDED 1866

THE FARM.

The Road-destroying Auto.

"There are," said Clifford Richardson, Member American Society Civil Engineers, before the Oneida Historical Society, at Utica, N. Y., "several points in connection with the road problem which have received too little and demand the most careful attention.

• It was the damage to French roads caused by heavy motor traffic, and the problem of how to meet it, which caused the Congress at Paris to be called.

"The general opinion expressed at Paris by the ablest English and French engineers was that the road, to meet modern motor traffic, must be constructed with a more resistant surface, which is brought about by introducing into the wearing surface some bituminous cementing material.

"Experiments made by the Office of Public Roads show by instantaneous photography that the damage to the roads is produced by the rear or traction wheels of motor cars, and particularly at a speed above 25 miles an hour. The force with which they were propelled was sufficient to cause a marked slip upon the surface of the hard roadbed, such as is often seen in an exaggerated manner on a frozen surface.

" A road near Lynn, in Massachusetts, of almost perfect macadam construction, exposed to wind, sun and high-speed automobiles, had to be resurfaced after a single year's service.

⁹ W. C. Carpenter, County Surveyor, in Yorkshire, England, reported at the Paris Congress that the maintenance of roads in his district was \$182 per mile in 1890, and \$798 in 1908. Mr. Hooley, holding the same position in Nottinghamshire, states that the maintenace cost was formerly \$250 per mile; now it is \$750, and he advises , reorfacing with bituminous macadam.

"Harold Parker, chairman of the Massachusetts Highway Commission, says that \$100 a mile had been the previous cost for maintaining macadum roads, and, to keep them in perfectly good condition, at least \$300 a mile should now be provided.

¹² Figures in the possession of the Massachusetts Highway Commission show that about 53 per cent, of the destruction of State highways is due to automobiles. . . It may be, and, indeed, it seems almost certain that a material will be found, if it has not already been found, which, when placed upon the surface, or embodied in the top course of a macadam road, will offer a surfacing which will not be destroyed by the abrading motion of the automobile wheels.

"The best type of ordinary macadam road that can be constructed to-day will be rapidly destroyed by motor traffic, and recourse must be had to a bituminous macadam for relief."

O. A. C. Experimental Notes.

President G. C. Cigelman, in the course of his address to the crowded hundreds of excursionists

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Weed-destroyers and Money-makers.

in the lunch-room, at the O. A. C., the other day, praised Ontario farmers as being second to none in achievements and morals. The output from the farms of the Province had doubled in the last fitteen years, though neither population nor area had increased. During his visit to Italy, last year, while trying to get information on agricultural subjects, and asking a good many questions, he would be questioned in turn. When asked where he came from, he answered, of course, Canada. Is that anywhere near Ontario? his questioners would inquire, "We have heard of Omtario ; they know how to grow good crops there."

A large crowd always follows Prot Zavitz, as he leads them about the experimental plots. Alfalfa-growing is a live subject to farmers at present, and nothing in the plots seemed to interest them more. Readers of "The Farmer's Advocate" have received a good deal of information on this subject of late, but two remarks of i'rofessor Zavitz will bear emphasis. Alfalia should be cut, not when it is in bloom, but when it is coming into bloom, when about one-tenth of the bloom has appeared. Experiments and analyses have shown that at this stage it contains the greatest amount of digestible nutrients. Red clover, on the contrary, is at its last when it has gone a little past null bloom, when about one-third of the blossons have turned brown. It is well to sow alfalla after a cultivated crop, as the land should be clear, not only of weeds, but of grass, as well. Canadian blue grass (wire grass) is the worst enemy of alfalfa.

Considerable has been accomplished, and much nore is hoped for from the attempt to improve carieties of grain by crossing and selection. A D 1866

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THE FARMER'S ADVOCATE.

large area of ground is occupied by grain under test in these experiments. Hundreds of labelled rows are to be seen, where each seed has been planted separately, eight inches apart. As showing the importance of such work, it is claimed that the increase in the barley crop in Ontario, in ten years, from four million bushels to twelve million bushels, has been due largely to the introduction of the better-yielding Mandscheuri variety. A distinct strain, known as No. 21, obtained from the Mandscheuri itself by selection and re-selection, is the best barley yet grown at the farm. It has longer, stiffer, cleaner straw, and is a better yielder. Seed of this variety is being distributed rapidly. One man in Huron County who had received one pound, in the third year had a crop of 900 bushels.

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In answer to a question, it was stated that hill corn had yielded one ton per acre more than corn grown in drills

Cement Foundation for Silo.

A stave silo may be erected on a smooth, clay bottom, but, for the protection of the lower ends of the staves, to insure its standing upright in good form, and to guard against trouble from rats, a concrete bottom should be provided. This may be flat around the circumference, and dished in the center, or it may consist of a cement floor, with a circular wall, say a foot high, the better to protect the stave ends from soakage, and from the accumulation of damp earth and litter so often seen lying about the foot of silos. following illustrated article, describing how to iay of, and build such a silo foundation, is quoted from Circular 136, published by the United States Bureau of Animal Industry.

To lay out the foundation, drive a stake in the ground at the center of the proposed silo. Saw off this stake at the height desired for the coundation wall, which should be at least one foot above the ground on the high side, if the ground is sloping. One end of a straight $2 \ge 1$ -inch scantling, a little ionger than is necessary to reach from the center of the silo to the outside of the foundation wall, should be nailed on top of the stake with a 40-penny spike. This spike then marks the exact center of the silo. From it, measure off on the scantling the distance to having pailed on markers, as shown in Figure 1.

The thickness of the wall should vary from 10 to 18 inches, depending upon the size of the silo. the material of the foundation, and the ground on which it is located. The inside of the founda-tion wall should be at least two inches nearer to the center of the silo than the inside of the Where the ground on which the silo is to be located is not level, the markers can be lengthened by holding a longer board against either marker (see Fig. 2), moving it up or down to keep it touching the ground while the scantling is held level. If the ground is very uneven, it may be difficult to make the line continuous, in which case points can be marked every few inches. and these joined afterwards.

For a concrete foundation, a ditch must be dug before any of the earth in the center is removed see Fig. 3). The earth between the two lines that mark the inside and outside of the foundation should be taken out, until firm ground below frost line is reached, care being taken to cut the sides of the ditch down straight, and to leave

times. possible.

Put in the first layer about 6 inches deep, and thoroughly ram the concrete until water, appears on the surface. A good rammer may be made of a piece of 4 by 6-inch lumber, 2 feet long, with a hole bored in the center of one end to receive a 4-foot round handle. When the second layer is put on, the surface of the first layer should be perfectly clean and rough, and if dry, it should be sprinkled with water. Particular care should be taken to keep all dust and loose soil from the surface of each layer, as these prevent perfect adhesion

After the ditch is filled to the surface of the ground, drive 2 x 4 stakes half an inch from the foundation on the inside, and 2 feet apart all the way round (see Fig. 4). With straightedge placed level-one end on top of the center stake, and the other against the side of the form stake-mark on the form stake the height that the wall should be, as previously determined. Mark thus on every second stake. Take pieces of lumber one-half inch thick by 6 inches wide, preferably green, with straight edges, and bend around outside of





Fig. 2.-Laying off foundation on sloping ground.



lig. 3.-Ditch for concrete foundation

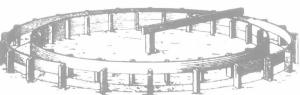


Fig. 4.-Form for foundation above ground, partially boarded up.



The concrete is now ready for use, and crete will be filled in around them. After the should be put in place with as little delay as silo is completed, the staves adjoining the eyebolts will be securely fastened to them

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If the wall extends more than one foot above the surface of the ground, it should be reinforced, by embedding in the concrete, every eight inches, above the surface, and near the outer edge, two or three strands of wire, with ends tied together. After ramming each 6-inch layer of concrete, work a spade between the concrete and the form, $\ensuremath{\text{to}}$ force the coarser materials away from the boards, thus leaving smooth-surfaced walls.

When the concrete is within one inch of the top, finish with mortar made by mixing 1 part of cement to 3 parts of sand, and strike off level with the top edges of the form.

After the concrete has set, and before removing the center stake, mark a line with a nail. pencil or crayon entirely around on top of the foundation wall 3 inches from the inner edge, to show where the inside edge of the staves will come (see Fig. 5).

Next dig out the dirt inside the foundation to 4 inches above the bottom of the wall.

If the earth in the bottom of the silo is firm, and comparatively dry, no provision need be made for drainage, and a concrete floor is unnecessary. Still, such a floor makes the silo easier to clean, and makes it impossible for rats to burrow underneath the foundation wall and gain access to the silage. If, however, the earth in the bottom of the silo is inclined to be seepy, a tile drain should be laid in it, and a concrete floor should be laid The tiling should open into the above the tile. floor at the center, and the floor should be made to drain to it. The tiling should extend beyond the silo wall, and have its outlet lower than the The entrance of the tile drain should be loor. protected in such a way as to prevent the silage from dropping into it.

The concrete floor should be made 4 inches thick, of concrete similar to that used in the foundation wall, and surfaced with mortar made of three parts sand to one part cement.

Western Crop Prospects.

According to the latest reports to date of the Departments of Agriculture for the Western Provinces, estimating the comparative area of wheat and other grain crops sown, the situation in Manitoba is disappointing, particularly so far as wheat is concerned, a net decrease of 208,529 acres being reported. The total for this year is estimated at 2,642,111 acres. There is an increase of 157,051 acres, or about 13 per cent., in the area sown to oats, the total acreage being 1,373,683, as compared with 1,216,632 last year. There is also an increase in the area of barley sown, the acreage being 601,008, as compared with 568,441, an increase of a little over 5 per The area under all grains in Manitoba cent. totals 4,646,614 acres, as compared with 4,809,-743 acres last year, a decrease of 163,129. The aggregate for the Province, of all crops sown, including rye, peas and flax, is placed at 4,777,210 acres, as compared with 4,978,630 last year, a decrease of 201,420, or a little more that 4 per cent.

Saskatchewan returns make a more favorable showing. The acreage under wheat is estimated at 3,912,197, as compared with 3,703,563 last year, an increase of 208,934, or about 6 per cent. The acreage under oats is estimated at 2,192,416, as compared with 1.772.976 last year, an increase of 419,440, or 23 per cent.. The increase in barley is placed at 5,889 acres, and of flax an increase of 11,107 acres. Taking the figures as they stand, it appears that in Manitoba and Saskatchewan, together, the wheat acreage is increased by only 405 acres; but in oats there is an increase of 576,491, or about 19 per cent. There is also an increase of 38,456 in barley, or about 5 per cent., but a decrease in flax of 15,445 acres. So that, for the two Provinces, there is an increased acreage of all grains of nearly 600,000 acres, or about 6 per cent. The figures for Alberta are yet to come. The total area under all grains and flax last year was 835,907. Large increases are expected, especially in oats. It is considered likely that the aggregate for all grains will be more than 1,000,000 acres, of which 400,000 will be wheat, and 500,-000 oats. This will bring the grand total of the grain acreage up to about 12,500,000 acres, of which about 56 per cent. will be wheat. By the time the figures are finally revised, it is thought that the grand total may be nearer 13,000,000, with about 7,500,000 in wheat. The total wheat area in 1908 was 6,871,736. The effect of the backward spring is evident in these figures.

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The concrete should be made of one part cement, three parts sand, and five parts broken stone. The broken stone may be of all sizes, up to pieces that will pass through a two-inch ring. Washed gravel, broken brick or screened cinders be estimated by screening some of it, and the pro portions of gravel and sand should be so adjusted

For mixing the concrete, a box about 4 feet or a simple floor or platform 6 by 10 feet will suffice. To measure the materials, an empty knocked out will be most convenient. First measand spread it on the floor or platform. Measure up the cement spread it over the sand, and, with hoe of shovel, mix them until no streaks ap-Into this " crater * nour water, and, by drawing n the dry mixture from all sides with a hoe.

Fig. 5.—Form filled with concrete, showing eyebolts and

these stakes, nailing the boards to the the top edge at the marks. stakes, with then saw off the tops of the stakes above the The necessity of this sawing may be avoided by driving down the stakes beforehand to the exact height.

After the space from the top board to the ground has been boarded in, drive stakes in a similar manner for the outside form, half an inch from the concrete. Drive these stakes so that the scantling, resting on the center stake and the inside form, as shown in Figure 4, will just clear the tops. Board up these stakes on the inside,

At several places nail slats across the top of the form to keep the inner and outer circles the proper distance apart. After all the boards are on, the form is ready to be filled with concrete (see Fig. 5).

Four or five eyebolts, half an inch in diameter, and from 20 to 24 inches long, with a hook or elbow on the lower end, should be placed 6 inches from the inside of the foundation, and held in a vertical position by boards fastened across the top of the form. These bolts should extend 8 or 10 inches above the top of the wall. The con-

"The Farmer's Advocate" knife came all O. K., and is a beauty. We think every farmer should read " The Farmer's Advocate." There is always something new and up-to-date, ideas in Wishing keeping with the age in which we live. W. F. JUSTIN. OU EVENY SUCCESS. Halton Co., Ont.

Hay Caps.

Hay caps have been little used in Canada. The general impression is that they are more bother than they are worth. Perhaps this is true. Perhaps, again, their real worth is not appreciated, for certain it is that most haymakers go farther than is profitable in sacrificing quality to speed.

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Ex-Governor Hoard, of Wisconsin, one of the very best dairy farmers in America, strongly contends that hay caps do pay. "In our own experience," he says, "especially in curing clover and alfalfa for both cows and horses, we find that hay cured in cocks under hay caps, is much the most productive of good returns, so that it is richly worth the extra labor to cure it in that In curing alfalfa, farmers should remember way. that it is not like timothy in feeding value. more nearly approaches bran, has a much higher feeding value than timothy, and consequently should be more carefully handled and cured, if the full value of it is to be saved. When bran is worth around \$20.00 per ton, we believe that it will pay farmers to spend some money and time in making sure of a good crop of alfalfa. When the dairyman has his barn filled with good alfalfa hay, and his silos full of silage, he has a splendid foundation for a good dairy ration, and it does not require heavy grain feeding to produce large flows of milk.

Through his paper, Hoard's Dairyman, this wide-awake and observant farmer has repeatedly urged the use of hay caps. They are made as follows

" The cloth in the cap is made from A-1 sheeting, torn into pieces 40 inches square, and to each corner a large washer, weighing about onefourth of a pound, is tied.

"The hay is put up in cocks about 75 pounds each, and then covered with the hay caps. The weights that are attached to the corners of the cap tend to keep the cloth tight over the hay, for, as the hay settles, the weights drop closer to the ground. To shed the water well, the cloth must be kept smooth and free from wrinkles; and, to accomplish this, the weights, when the caps are put over the cocks, should be several inches from the ground. This method gives the weights an opportunity to pull down constantly on the four

'Some have recommended pegs be attached to the corners of the cap, and hook them into the hay to hold the cap over the cock. This system would be all right if the cock of hay did not settle, but since the hay, through settling, would soon pull away from the cap, enough to materially loosen it and cause more or less pockets and folds in the covering, we do not recommend this method.

"The advantage of the hay cap is not only valuable in protecting the hay from the rain, but from the sun as well. The hay can be put up into cocks when it is green and cured in the shade which is better than drying it out in the sun. Hay cured in this way is more palatable, and retains more of the leaves, because they do not become brittle and break off. The leaves of the hay are the most valuable part of it, and any system that tends to cure them properly, and prevents losing them in the field, is, in our estimation, worth practicing.'

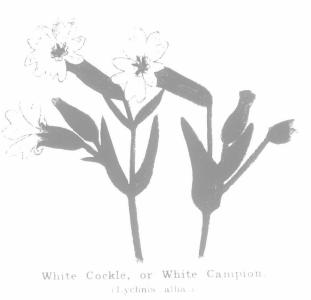
The White Campion. The Fink Family, a large one, of over a thousand species, abounds in insignificant plants,

mostly insipid, inodorous and inconspicuous weeds. It does, however, embrace a few species that are noteworthy for their floral beauty or their objectionableness as weeds.

To the former division belong the Dianthusliterally, the flower of Jove-the superb carnation, the old-fashioned Sweet William, and the aromatic clove jelly-flower. In Europe, Spurry is fed to cows and hens, and there, also, are the young shoots of the Bladder Campion gathered for a potherb that is said to rival asparagus. As weeds some of the cockles, chickweeds and campions are well known on both sides of the ocean.

The Bladder Campion (Silene vulgaris), recog nized by its smooth foliage and inflated calyx, is too well established in some parts of Ontario. By botanists, it is placed in a different genus from the White Campion (Lychnis alba), because the latter has two more styles (five altogether) in its flower

The White Campion is a biennial weed, with



Showing flower and inflorescence

opposite, hairy leaves, less glandular-viscid, but very similar in flower and leaf to common, whiteflowered, sticky cockle. The calyx is cylindrical, long-toothed, and when growing in the sun, deeply purple-veined. A specimen of the weed, lying on the table where this note is written, has five strong, flowering stems from the root, each about two feet long, bearing a total of 187 flowers one of its seed-pods contained, by actual count, 161 seeds. It was taken from a meadow north of the London Asylum, which, in the afternoons of this time of year (late June), is as white with Campion as some other fields are yellow with

Its rather fleshy roots can be subdued by per sistent spudding. Rotation with hoed crops will

Tiling in Essex Co., Ont.

Editor " The Farmer's Advocate " :

The chief benefit of tile

FOUNDED 1866

put them in by water-level. We use five, six and seven inch for mains, with three-inch tile draining into them. The work is done in spring by hand, with spades, a deep furrow being thrown out A. PEARSON. with plow to start. Essex Co., Ont.

Use Pole to Spread Hay. Editor "The Farmer's Advocate "

We commence to cut our alfalfa as soon as we see it starting to bloom, as we find we have much less loss of the leaves; also, if it is not cut till later, the stem becomes very woody. Red clover we cut when about all out in bloom, and some of the heads are a little brown. Timothy we try to cut just after the first bloom has fallen.

Cut with a five-foot mower, but never cut when grass is wet. If crop is heavy, we ted after dinner what we cut in the forenoon, rake and coil in evening, let stand a couple of days, then draw to mows; load all by hand, unload all with with horse-fork; or, if hay is very short, we use the slings that run lengthwise of the load, and work to perfection. In one barn we use the pole from beam to beam to spread hay ; it works well, but we keep one man in barn spreading and leveling hay, and put about one pail of salt to two tons of hay. Three good Canadian men, with three horses, can easily draw in their three tons per hour.

Have never used hay caps. One of our neigh bors had them five or six years ago, but he has, for some cause, discarded them ; he claimed it

For having, one requires good machinery in good repair, also good horses and good men (not immigrants, as we consider them noncontrollable) E. & C. PARKINSON

New Type of Grain Thresher.

Just when threshing machinery had been sup posed to have reached the height of perfection, the inventor steps in and shows us where we are all wrong, and threatens to revolutionize not only the manufacture of machines, but the work of threshing. J. K. White, of Nashville, Tenn., has been in Western Canada this spring showing the implement men and others a new type of machine which he invented, and which is being introduced into the wheat fields of the world. The principle and in front, and then to pass the straw and chaff ried to the stack by the force of the wind de veloped, thus doing away with the separate stacking attachment. The machine is $12\frac{1}{2}$ feet in length, has a capacity of about 1,000 bushels a

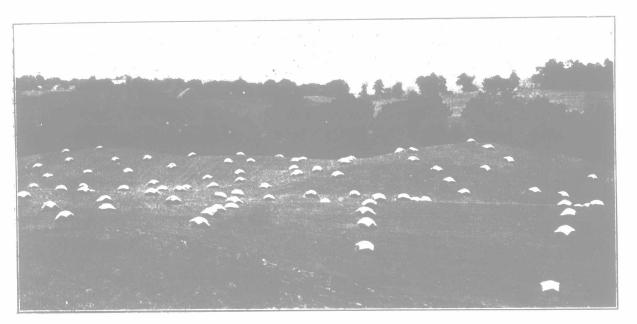
Demonstration Farm at Medicine Hat.

The location of a demonstration farm at Medicine Hat, Alberta, has been finally decided on. It is situated within four miles of the city, in a section typical of the conditions prevailing in the district. This year one hundred acres will be is the intention of the Department of Agriculture farming methods known generally in the West as the Campbell system. A manager has been engaged to direct the work of the farm, the chief direction resting with Prof. W. H. Campbell, the



O. A. College, wrote a fortnight since : "I have just been up in the County of Simcoe for a week and a hall, and the interest is at fever heat." Prospects are for an immense mileage of tile drains being laid in Eastern Canada from this on.

manifested by letters and interviews in "The that they make the clay more open and porous. Farmer's Advocate," Prof. Wm. H. Day, of the They will pay for themselves in three years. Our soil, for the most part, is a black clay on a hardpan bottom. The cost with us for tile is 9.00to \$10.00 per thousand. We get them put in by hand for 17 cents per rod : that would be about \$27.00 per acre. We have very little fall, and



Hay Caps in Minnesota. A third cutting of alfalfa curing into ideal hay.

A Roller Hay Rack.

Hay loaders are gradually coming into favor. and where used in connection with a side-delivery rake and a roller rack, give very good satisfac tion. Perhaps some of your readers are unlamiliar with a roller rack; it is made on a flat tack, and is really a car running on four wheels on a track on rack; it covers one-half of rack. When starting to load from a hay loader, this car is fastened at back end, and half the load is built; by tripping it and stopping horses, the car rolls to front end, and is fastened, then re-F. H. W.

and anxiety in these parts. Ten years ago this weed was practically unknown; now, almost every farm has it, more or less. It causes most trouble by seed blowing from one farm to another. One cannot expect to cope with it without co-opera-tion, and it will be a hard matter for farmers 10 do this, and when they do agree to, the pest will have gained much more headway than at present. Why should not our municipal council take this in hand, without further delay? There would then be some encouragement to fight it -

NDED 1866

five, six and tile draining ng by hand, thrown out EARSON.

Hay.

soon as we e have much not cut till Red clover and some of ny we try to

ver cut when ed after dins, then draw d all with hort, we use use the pole

but he has

od men (no) ontrollables REINSON

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Medicine

arm at Medicity, in a res will be f Agriculture the West as nas been enm, the chief 'ampbell, the

JULY 1, 1909

Some Haymaking Suggestions.

over which varying seasons and conditions pre-

vail. In some early sections, the four reasons

for early cutting of hay given below may be too

late to be seasonable, but over most of our ter-

* * *

stall the maturing weeds. Billions of weeds in

late-cut meadows ripen and scatter their seed,

which, if the field had been mown when the clover

was in full bloom, would have succeeded in ripen-

ing few germinable seeds. Early cutting of hay

* * *

the season's work. While the early-haying

weather is often precarious, and the process slow,

the curing of a field or two may usually be ac-

complished successfully by exercising care, to-

gether with moderation in the area laid down at

once. And this field or two, put out of the way

before neighbors have commenced, gives one a

fine start in keeping ahead of the work. Late

commencement of haying often runs this opera-

tion into the harvesting season, putting every-

thing behind, as well as discouraging both man-

of product. Probably most of us can recall a

crop of fine clover, cut in full bloom, raked when

well wilted, cocked up and left to sweat a day or

two, then hauled to the mows, with the leaves

adhering, and the heads a wilted crimson. What

a treat it was to find that hay in the bottom of

the mow, fragrant and dark-green, with the red

of the blossoms still showing ! The cows felt

the same way about it, and you would have

known by the milk flow when it was reached !

Why is there not a more general determination to

make such hay every year ? High wages are not

a sufficient excuse, for the total cost of curing and

putting in hay need not, on the average, exceed two

or two and a half dollars a ton, and a consider-

able proportion of this expense will be incurred,

anyway, with the most expeditious methods. The

greater feeding value of choice hay well r pays the

* * *

vigor of the aftermath. The nearer the first crop

is allowed to reach maturity, the more tardy and

scant will be the second growth. When the sec-

ond crop is intended for seed, the difference in

total value of the first cutting. In fact, to in-

sure a crop of seed, it is necessary either to pas-

ture a while in spring, or to mow very early. But even when intended for pasture or a second

hay crop, the greater yield of aftermath from an

early-cut meadow will much more than compen-

ate for the slightly-reduced yield of the first crop from early cutting, leaving the superior feed-

8 ¥ 8

ing value a clear and substantial gain.

ield may sometimes amount to more than the

A fourth reason for early cutting, that is too often overlooked, is the much greater growth and

A third and very important concern is quality

A second consideration is the advancement of

The first argument for early cutting is to fore-

ritory they probably will still apply.

is an effective means of fighting weeds.

ager and helpers.

'The Farmer's Advocate '' covers a wide field,

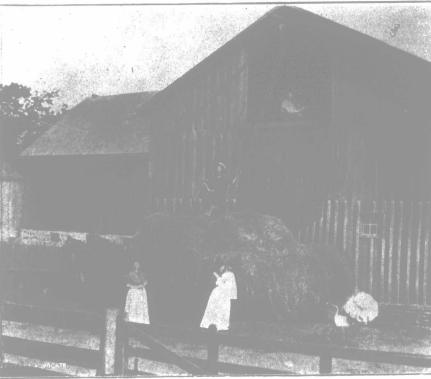
THE FARMER'S ADVOCATE.

A little sap will not spoil a mow of hay, for, as a matter of fact, the driest fresh-cured hay contains quite a considerable percentage of moisture; but beware of a very little extraneous moisture, whether dew or rain.

Do not Build hay cocks to shed the rain. turn together the outer ends of a couple of rakefuls, and perch a dab of a forkful on top, calling it a cock. The bottom of the coil may be formed this way, but on top of this several successive forkfuls should be squarely placed in such a way as to cause the outer ends of the stems and leaves to droop downwards, thus shedding the rain as a stack would. Alfalfa coiled on this principle, while tough, will shed a week's rain, with far, less damage than one would anticipate. In fact, we have known it to make fairly appetizing feed after such a siege.

* * *

The hay loader is undoubtedly a useful implement, especially for handling timothy, and at



The Easy Way of Unloaung. Thoto on farm of Fred Luck, Brant Co., Ont.

times may be employed to advantage for clover the creamery every day. The cream proand alfalfa, but, as a general practice, in the early part of the season, when weather at all permits, the old-fashioned method of haymaking will It takes more time, but the labor will be well rewarded. Time may be dear, but bran is Better hay and less millfeed, is a good dearer.

The greatest material problem of the United States is not in the development of the water- Canada the way it should. It cannot be for lack ways, not in the preservation of forests, and not in the conservation of our coal and iron, important as these all are; but the problem that is vastly greater than all of these is to bring about the adoption of systems of farming that will maintain or increase the productive power of American soils .- [Cyril G. Hopkins.

THE DAIRY.

The Next Best Thing.

Certainly, the margin between dairy and creamery butter has been growing less from year to year, but I am not prepared to say that the hand separator is responsible for this. Prices for creamery have been, on the average, much higher since the hand separator came into general use. The same condition holds good in dairy. The ideal creamery is the whole-milk system, but this is impossible in many districts, and the hand separator on the farm is the next best thing. The average farmer does not produce as rich a cream as he should ; indeed, about nine out of ten produce a thin cream.-[Jno. McQuaker.

Mixture Spoiled by the Worst.

Editor "The Farmer's Advocate ":

The advent of the hand separator has had the

result I anticipated, viz., it has put the butter trade of Canada just where it

was 25 years ago, or, when all of our butter was made at the farm dairy. This should not be the case, but, as a matter of fact, it is.

My reasons are these : Many farmers who know how to make first-class butter will not take the pains necessary to produce that article, or produce cream that will. There are also some farmers who really do not know how to handle milk or cream, without spoiling it for anything but pig feed; while, on the other hand, we have dairymen who understand, and who do take pains, and produce a first-class article of both butter and cream. But, when all these qualities of farm - separated creamgood, bad and indifferentare mixed together, firstclass butter cannot be made out of it. At the present time, I think the only way first-class butter can be made in Canada is to have the patrons deliver the whole milk at

duced by the average farmer is not of a high enough quality to make a first-class butter. This should not be the case, for I claim there is no place so favorable for the production of choice cream and butter as the home dairy, for the dairyman has all conditions under his control; but, as a matter of fact, he either does not know how, or will not take the pains.

I do not consider dairying is going ahead in of knowledge. Our splendid agricultural papers, Farmers' Institutes, and conventions of all kinds,

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ood satisfac ers are unide on a flat n four wheels half of rack. f the load is g horses, the ned, then re-F. H. W.

ears ago this most trouble to, the pest icipal council to fight it -

All things considered, therefore, the conclusion is irresistible that, while a clover crop contains its greatest nutritive value when shortly past the full-bloom stage, it pays to commence, if weather permits, as soon as, or even slightly before, the full-bloom stage is reached. To wait longer, where any considerable area is to be harvested, is to entail much-too-late mowing of the later fields. Where the meadow is a mixture of clover and timothy, cut it at the stage when the clover is at its best, for, in the farm stable, a ton of good clover is worth more, except for road horses, than a ton of timothy.

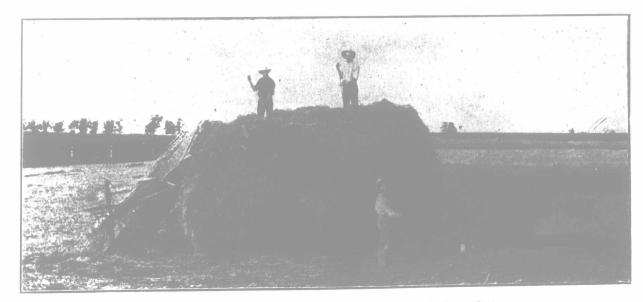
Alfalfa should be cut when about on tenth in bloom, and clear timothy just after the second bloom has fallen.

* * *

As with almost everything else, there is a \mathbf{right} and wrong time to use the tedder. The right time is soon after the mower has laid the swath. Then the tedder will shake it up without breaking off the leaves. By keeping the green-cut stuff loose and open, the air is allowed to circulate through it, drying all parts evenly-air-curing, as it were. This makes choice hay. The wrong time to ted is when the hay is so dry and risp that a tedder will rustle off the leaves. This s a most serious loss, for the leaves are the nost valuable part.

There are two reasons for keeping the leaves on the hay. The green leaves are the most efective means of evaporating the sap. When they secome brittle and fall off, this function ceases. caving the stalks apparently dry enough, but cally full of moisture. And besides, as pointed cut above, the loss of the leaves greatly reduces

are scattering the very best kind of information broadcast; but, in spite of this, there is a lukewarmness that must be got rid of. Either our dairymen have got to improve their methods voluntarily, or we have got to have more stringent



Hay Loader on Farm of Fred Luck, Brant Co., Ont.

Loader takes hay from the swath, which Mr. Luck says he finds to make very good hay, if taken in before it has dried too much, and with no rain or dew on it when lifted. The load is on a low-truck wagon, which is best for loader, and was put on in about 12 minutes.

regulations for our cheese factories and creameries, if we achieve the success that awaits us. W. H. MCNISH Leeds Co., Ont.

Misrepresentations of Separator Salesmen.

Editor "The Farmer's Advocate ":

In regard to farm separators causing cream eries to accept a lower price for their output, I can't see it in my case; it may be so some places. If the farmer is instructed how to care for his cream, and the creameryman has a standard at the factory, the farmer knows that if his cream is not up to the mark it will not be accepted.

My creamery is altogether a cream-gathering concern, and my output commands as high a price as that of the whole-milk creameries around me. Competing with them at dairy shows, I have won prizes

I think that dairy butter has had a greater influence on the reduced price. If it is the case that separators have obliged creameries to accept a lower price for their output, the fountain of the cause is on the farm. Separator agents will come along and tell the farmer almost anything. if it will cause a sale. The idea of stating that they only need washing once a day, or once every other day ! The agent should have butter made from a separator run in that manner, and be forced to use it. Again, they have the separator set to skim far too thin a cream, making the farmer believe, or rather trying to, he is getting so much more cream from his milk. A thin cream is more trouble to keep sweet, and a larger amount to take care of, than a thicker creamthe quantity of fat the same.

If the farmer washes his separator after each using, skims a 30-per-cent, cream, or more, cools it immediately, and mixes no warm cream with the previous separatings until it is cooled, and the creameryman gathers every other day, I cannot see why a first-class article cannot be made.

These few notes are from my experience in my own creamery. Others may see things in a differ-H. E. WILSON. ent light

Middlesex Co., Ont.

Fresh-cream Cheese at O. A. C.

During June, at 3.30 p.m., when milking at the O. A. C. dairy begins, an interested throng of excursionists pours through the stables to view the sleek Holsteins, Ayrshires and Jerseys brought in from the pasture. Much interest is manifested in the individual cow records for the previous year, which are to be seen on cards pasted up behind each cow.

The creamery, which is run as an ordinary commercial creamery, was another center of attraction. Patrons are charged three cents per pound of butter-fat for manufacturing, one cent additional if hauling is done. Professor Dean reports that, for May, patrons were paid, net, 251 and 261 cents per pound of butter-fat.

In the cheese factory a new departure has been One end of the building is this year devoted to the manufacture of soft, fresh-cream This cheese is made in three grades, from whole milk, from 20-per-cent, cream, and from cream containing 40 per cent. butter-fat. Each grade is packed into neat, parchment-paper-lined The little box of straightcardboard boxes

moderate pressure, forces out the milk when it is needed. And the application of this air gives a thorough mixture of the milk before any sample is drawn, so that the samples in each part of the can are of uniform quality.

What next?

GARDEN 🕸 ORCHARD Thinning an Essential of Orchard Practice.

Paper by F. H. Johnson, read before the Nova Scotia Farmers' Association, January, 1909.

A large proportion of the apples grown in the Province of Nova Scotia are undersized, and not fit to be placed on the market as No. 1 stock, due, in a great measure, to the trees being over loaded, and not able to bring the fruit to full maturity. This means a considerable loss in cash returns to the grower. It costs as much to place a barrel of No. 2 apples on the market as a barrel of No. 1's, the No. 2's bringing from 2 to 4 shillings less per barrel. The lower grades are almost worthless, scarcely paying for the handling, and, if placed on the market, cause more loss indirectly than the small amount returned for them.

If part of the apples of an overloaded tree are picked in the early part of the growing season, the remaining ones will have a better chance to develop and grow to a larger size. The apples being farther apart, admit the sun, with the result of better-colored fruit.

barrel of No. 1's, so that in growing No. 1's, instead of No. 3's,, the tree is exhausted less, and is in better condition to produce a crop the following year. It is better to have a tree produce five barrels every year than ten barrels alternate years, being less drain on the tree, and not bringing all the apples on the market in a year of large crops.

FOUNDED 1866

The time spent in thinning will be gained in the picking and packing. If all the apples are left on the tree until fall, they will have to be picked in baskets, carried from the tree to the barrel, and carted to the packing-house, there to be handled over again at the time of packing Large, even-sized apples can be graded and packed much faster, and give a better article when placed on the market than ones that are uneven in size and quality

In British Columbia, where all the fruit is packed in boxes, the thinning of apples, pears and plums is regarded to be as necessary as any part of the orchard work, most of it being done by Chinamen paid at the rate of a dollar and sev-enty-five cents a day. With labor at that price, the cost of thinning is not regarded as excessive.

If we expect to make a success in boxing apples for market, we must thin them on the tree. so they will be large, even-sized, free from suot and blemish. Unless we do this, we will find a large part of our apples not fit to be packed in boxes. Size is very important in apples boxed for the English market, one-half tier per box making a difference of one shilling and sixpence.

First-class apples will always find a ready sale on the market, giving satisfaction to the buyer and seller. It is the poor grades that are diffi-

cult to dispose of, and return so little for the trouble of growing.

By thinning, we get rid of a large portion of the poor grades, making apples easier to handle, giving more money to the grower, and better satisfaction

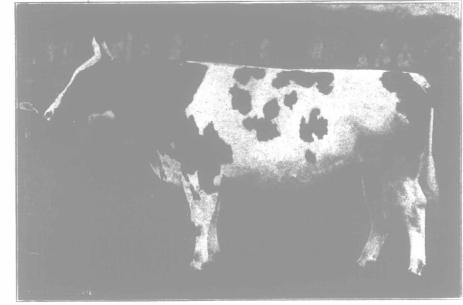
No intelligent farmer would put twice as many there was feed for ; yet we are doing the same thing by allowing our three times as many apples as they can bring to proper maturity.

Thinning should not be regarded by the orchardist as an experiment. It is as practical as any part of the orerly carried out, will help to meet the demands the market is making each year for better fruit.

a tree that has been properly thinned as though chard, we are doing fairly well. Let us add

the full amount had remained to the end of the thinning to the list, and keep up the reputation scason, the increase in size making up for the our apples have earned.

In British Columbia the fruit is thinned in Okanagan Fruit Union. ne. Our season being two or three w



Everlasting.

Champion Ayrshire bull at Ayr, Scotland, April, 1909.

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cream cheese contains about four double cream about five ounces, and the box of whole-milk cheese about a pound or more. weight is guaranteed, however. These are sold at present for 10, 15 and 20 cents, respectively There is no ripening process, and no old flavor The cheese is shipped as made to dealers in the large cities, and usually reaches the consumer inside of two weeks from manufacture

New Idea in Milk Cans.

To prevent dealers from adulterating the milk received from producers before it is retailed to consumers in the city, a can has recently been devised that is said to effectually prevent the in-

It is a can with an hermetical seal, and an ap samples of uniform quality, by means of sterilized

later, would bring it in July, or as soon as the usual drop is over. Low trees can be handled with a step-ladder; for ordinary-sized ones, light picking one answers best, being placed against the tree as in picking.

loss in numbers.

As many barrels of fruit will be gathered from

Having no basket in the way, the work can dropping the apples on the ground. All wormy, deformed and spotted ones should be removed also, clusters of two and three broken up, never

Do not be afraid of taking off too many ; the

The work should be done in a thorough and quire much thinning-only enough to break up clusters and remove defective ones. Such vari-

trees are kept well pruned on top, and not alare growing into the next tree should be cut off, o there will be an open space all the way around the tree to work the ladder in.

Thinning encourages annual bearing. We learn the increase in size being mostly water. As a small apple as a large one. A barrel of No. 3's has from two to three times as much apples as a

A number of prominent Okanagan fruit-growers their fruit, to be known as the Okanagan Fruit sociated with the enterprise are W. C. Ricardo, John Kidston, R. H. Augur, E. M. Carruthers, and W. T. Shatford. The declared intention of the Union is to handle the fruit of the valley. competitors, and the erection at various points Later on it is proposed to erect cold-storage

ion by issuing stock to fruit-growers at \$50 a share, with a first call of \$20. There are no promoters' shares, neither is there an issue of debentures. The Union will be governed by a board of directors made up of representatives from the various centers, who will have absolute

at cost. After six per cent, of a dividend is paid on the stock, the balance of the profits will go into a reserve. The Union will guarantee the growers against had debts, and payment will be made by the Union as follows - Fifty per cent

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n in size fruit is ears and any part lone by ind sev at price. the tree om spot il find a acked in s boxed ox makady sale

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uld not the or n experi practical the orut, will making

JELY 1, 1909 of sales; twenty-five per cent. twenty days later,

and the balance sixty days later. Fruit going to the canneries and drying plants of the Union will be bought at a fixed price. In this way, the second-grade fruit can all be disposed of.

The public naturally look with favor upon any proposition which appears to offer a solution to the problem of packing, grading and marketing the iruit, but, following closely upon the failure of the B. C. Fruit and Produce Exchange, are naturally slow to enthuse, and apparently wish to be shown.

However, the men behind the enterprise are men of experience in financial matters, as well as being specialists in the growing of fruit. They are men of large affairs and well-known integrity, and at the outset have been successful in securing the services of a man who has been engaged in handling the fruit crop of the Yakima country for some years, at a very satisfactory profit to the growers there. If the Okanagan Fruit Union is a success, it will go a long way toward putting the industry in the Okanagan on a firm business footing.

Fellowing close upon the formation of this fruit selling organization, comes the announcement that a company has been formed to build an electrie railway through the Okanagan. If carried to a successful issue, this will also be a large factor in the development of the district. In the truit-growing sections of Washington, particularly in the vicinity of Spokane, electric roads are quite common, and are materially assisting in the E. W. D. growth of the fruit industry. British Columbia.

Fire Blight.

A diseased condition of apple trees, recognized by the scorched, either reddened or blackened condition of the leaves on certain branches or twigs. is not infrequently mistaken by orchard owners for the effect of lightning-stroke. Those who have studied the disease have determined the cause to be bacterial. Fire-blight is an appropriate name for it, on account of the effects above referred to, but the disease is more generally spoken of as pear-blight, because the pear seems to be more susceptible to it than the apple, quince or hawthorn, none of which are immune.

M. B. Waite, Pathologist to the U. S. Department of Agriculture, who has made a special study of this destructive pome-fruit disease, is of opinion that the bacterial infection enters the trees most commonly through the flowers at blossoming time, bees and other insects being the at all, will find, as others before have found out, chief agents of distribution. Some infections occur through tips of growing shoots, and a still smaller number directly into the fleshy bark.

In the vast majority of cases, the infections simply kill the blossoms or a few inches of the twig, but occasionally the bacteria spread and kill whole branches, and sometimes even the whole

Not all varieties of pear and apple are equally susceptible. Mr. Waite makes the unusual generalization that the conditions most favorable to the growth and vigor of the trees are also most favorable to the infection and progress of the diseasegerm. Favorable weather, heavy fertilizing, good cultivation, favor the blight, on account of the increased succulence of the tissues.

THE FARMER'S ADVOCATE.

Lime-sulphur Prevents Leaf Curl.

Editor " The Farmer's Advocate " :

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I herewith enclose photographic prints of two peach trees I made towards sundown the other evening, which shows the results of spraying.

No. 1 peach tree (Elberta variety), sprayed with lime and sulphur, foliage dark-green and healthy, good set of fruit, which is developing nicely.

No. 2 peach tree (Elberta variety), unsprayed, foliage was heavy, but badly attacked with the leaf-curl fungus; set of fruit was good, but the tree has strewn the ground with the diseased leaves, and is preparing to set forth a new set of



Elberta Peach Tree, Unsprayed. Losing fruit and first set of foliage, from curl-leaf.

leaves and drop all of its curled leaves. In the

meantime, it also drops its set of fruit. One object-lesson like this teaches us the

value of thorough spraying as a preventive of leaf-curl, as in cold, wet springs, as this season was, all varieties are always more or less affected with leaf-curl; whereas, if spring had come up warm and dry, the ill-effects would not be so noticeable. Many fruit-growers who this year put off spraying, as the ground was too wet, and then, when season advanced, neglected to do a thorough job, or many who did not spray that spraying of trees is just as necessary as and sometimes more necessary than cultivation and pruning, and, to make a success, none can be neglected.



Tiling Pays on Sandy Loam. Editor "The Farmer's Advocate"

My experience with tile drainage is rather limited. My soil is a deep, sandy loam, rather rolling, and surface drains very easily. Neverthe-

less, I have found tile drains a very profitable investment in some of the lowest parts of my orchards and berry plantation. In a wet season, peach trees will not survive if soil is oversaturated with water for any length of time; so, in a peach orchard, it means that some places must be tiled, in order to have a solid block of thrifty, healthy trees. In the fall, 1906, I did a little tile draining, which cost me three cents per foot for 3-inch tile, digging and filling. In my soil it can be done for less by using a plow and getting tile in car lots, as I paid \$15 per thousand. Nearly all my neighbors are tile-draining as fast as possible; there is no debating the question as to whether it pays. It means the difference between success and failure in most soils in our neighborhood, (specially if intending to go into fruit-growing. There were no oats sowed here before May 24th, except here and there a field which had been tile-drained. S. H. RITTENHOUSE. Lincoln Co., Ont.

Irrigation Experiments with Vegetables.

A. McMeans, who has charge of the vegetable division of the Horticultural Department at the Ontario Agricultural College, hopes to improve varieties of cabbage by carefully selecting the best specimens and growing his own seed. He will conduct experiments in this line, also, with corn, peas and beans. Irrigation for strawberries and vegetables is to be tried this season. The plan to be used is known as the Skinner system. Into a set of overhead pipes water, is forced under a pressure of 30 pounds. Through small openings in the pipes every four feet, the water will fall in a shower on the plants below.

The onion-growers of the Leamington district had their first sowing drowned out. They have re-sowed, however, as late as the 24th of May. The Scotland (Ontario) onion-growers are this year putting up a large storage building, 50 by 100 feet, and will sell co-operatively. onions will go out inspected.

POULTRY

Fattening Chickens.

Many farmers market their poultry in a thin condition. The manager of the Poultry Department of the Ontario Agricultural College claims that they can, for the time it takes to feed, clean out the pens, etc., make at least 50 cents per hour over and above cost of food. The birds are usually fed by lamp-light at night, so little time is lost.

On a ration of barley meal, low-grade flour, middlings and buttermilk, together with some other mixed grains, and a little shredded wheat, 626 birds, fed, some for four days, and some as long as three weeks, consumed 2,057 pounds of ground grain, and 4,000 pounds of milk.

FINANCIAL STATEMENT OF FATTENING CHICKENS.

626 chickens weighing 2,233 lbs., at 8c. 3178 64

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The germs are short-lived ; they die out in the killed twigs and branches, but keep alive in the slowly-advancing margin of the affected portion. It is these margins, according to Mr. Waite, which are the sources of re-infection in the following

Sometimes a tree becomes infected through cracks in its bark, either of branch or trunk. It then spreads laterally, as well as vertically, and may really girdle and kill the tree. It may be injected at the ground or below the ground line, in which case it is known as "collar-blight." Mr. Waite states that more trees-pears, particularly-are killed by collar-blight than by branch-

In July and early August is the time when the effects of the disease are most conspicuous in the orchards.

Remedy.-" Cut out all the blight from the trees, and save all the healthy parts that can All small limbs affected should be cut out entirely. Blight completely kills the bark which it reaches, but leaves the rest wholly uninjured."-(Waite.) When blighted bark is removed from trunk or branch, the scraped part should be washed with a bactericide to kill the germs that are sure to adhere. The cutting and scraping tools should also be sterilized after every operation. For these purposes, Mr. Waite recommends a solution of corrosive sublimate, the sixth part of one ounce in a gallon of water, applied with a sponge. It is hardly necessary to add that all cuttings should be carefully collected and

Elberta Peach Tree, Sprayed with Lime-sulphur. Foliage healthy and free from curl-leaf.

This is a fair sample of the orchards right through this district, from the Niagara River to Hamilton, and shows that even the San Jose scale was not such a curse as some people think, for many growers some ten or twelve years ago had a very large acreage of peaches, and if the season was favorable they flooded the market with inferior trash. Since the advent of the scale, these neglected orchards are dead, and the spraying with lime-sulphur solution insures a crop almost every year on some varieties, barring winter-killing of buds, which is not as common in this district as supposed. The bad effects of the leaf-curl, before spraying was adopted, is to be blamed for the almost total failure in some orchards in certain seasons.

GEO. A. ROBERTSON. Lincoln Co., Ont.

30.85 4.00	per, lb., live weight 2,057 lbs. grain, at \$1.50 per cwt 4,000 lbs. buttermilk, at 10c. per cwt
\$213.49	Total cost
	624 dressed chickens, bled and plucked, undrawn, 2,358 lbs., at 12½c. per lb.
\$ 81.26	Profit

Birds that are starved, ready to kill, shrink nearly 12 per cent. by bleeding and loss of We have figured frequently that the feathers. average profit per bird in three weeks' feeding was about 15 cents each ; the above table shows nearly 13 cents. The profit would have been somewhat higher if all the birds had been fed at least two weeks.

From Coop to Roost.

Chickens, like human beings, are creatures of habit. The coop, which has to them been a safe shelter at night while they were small, is still reckoned home long after the hen has left them. Cases are known where a whole dozen have grown so big that the coop was scarcely large enough to hold them, but night after night they would crowd in, and then one fine morning the whole lot would be found dead, smothered for lack of air. Even where no such calamity befalls, the health and vigor of growing chickens must be injured by, overcrowding. When they are well feathered they should be induced to change their quarters, and to go at night to the roomy henhouse. They can

be taught to do so more easily then than later. Most people have vivid recollections of the difficulty of getting chickens to leave the apple trees and join the other fowls on the hen-roosts as winter draws near.

Pleased with Colony-house Method

The method of raising chickens in the corn field, altogether away from the buildings, which Professor W. R. Graham, Poultry Manager at the O. A. C., Guelph, fairly stumbled upon a few years ago, is in more favor than ever. In fact, all the chickens, in the College Poultry Department, except the very early ones, are now reared in this way, though pasture fields and others besides corn fields are used for the purpose. colony house is hauled to a convenient place, and becomes for the summer the home of a batch of If the chickens are without mother chickens. hens, a brooder is attached to the side of the colony house, and when the chicks are large enough, is removed, leaving them to roost in the Where hens are with the chickens, no house. brooders are needed, the house proper serving all purposes. No enclosing fence is put around; the chicks wander at will, but the houses are closed every night to keep out skunks and other night marauders. What food is given them is put into a self-feeder, and they help themselves

It is hoped to evolve a colony house which will fill the bill for winter, as well as summer.

An old gentleman present remarked that never since he could remember was such an interest taken in fowls. The reason is not hard to find. Prices are high. For broilers, at the time of the horse show in Toronto, Prof. Graham received 45 cents per pound, alive. As late as the second week in June the quotation was $27\frac{1}{2}$ cents per pound.

Experiments are being conducted at present to determine the vitality of chickens hatched in the natural way, and in the different styles of incubators.

THE FARM BULLETIN

Toronto Business Men Visit the O. A. C.

The June Farmers' Institute excursions to the Ontario Agricultural College were varied this season, by a rather unique departure. On June 19th two hundred members of the Canadian Club, of Toronto, on invitation of President Creelman, visited the College. It is needless to say they were delighted with what they saw and heard Very few of the visitors had seen the College before. They had a kind of vague idea that they would see a large farm, well kept, on which were to be found a few buildings suitable for teaching and demonstration purpose. But when they were taken through department after department, from the dairy to the Macdonald Institute, and saw the splendid equipment and facilities provided for educating the farmer's boys and girls, only words of the highest praise were heard, and the farmer's calling rose several notches in the estimation of these citizens of Ontario's metropolis.

The climax of an exceedingly pleasant an

Season Satisfactory, Though Late. The Drag in J

The Census and Statistics office has issued a report on the crops and live stock of Canada, as reported at date of June 15th In all parts of Canada farm operations have been delayed this year. The months of April and May were cold and wet, and farmers were able to get on the land late and at intervals. Where fall wheat had been sown it suffered much injury from hard frosts, and spring operations on the land have been two to three weeks later than usual; yet the reports from all the Provinces are very satisfactory. Grain crops and grasses are growing thriftily; and, except in some localities of the Maritime Provinces, where the rainfall has been light, there is promise of an excellent harvest.

Wheat, the great staple crop of the country, has a reported area of 7,750,400 acres, which is In the 1,140,000 acres more than last year. Maritime Provinces and Quebec there is little change, but in Ontario the area is less by 106,600 acres, of which 88,300 acres is fall wheat. Manitoba, Saskatchewan and Alberta show an area of 6,872,000 acres, being 1,254,000 acres more than last year. The condition of fall wheat at 15th June was 82.15, and of spring wheat, 92.15 per The area cent. of the standard for a full crop. of oats in the Dominion is 9,302,600 acres, which is 1,361,500 acres more than last year, and its condition is reported as 92.32 per cent. Barley, the cereal crop next in importance, has a total area of 1,864,900 acres, or 119,200 acres more than last year, and its condition is 91.49 per cent. Rye and peas are less than last year, with conditions of 87.90 and 90.59, respectively. Mixed grains, with 582,000 acres, and hay and clover, with 8,210,300 acres, are practically of the same extent as last year. The former has a reported condition of 91.71, and the latter of 90.36 per cent. The condition of pasture is 93.55 per cent.

The Province showing the largest area of oats is Ontario, with 3,142,200 acres, and also the largest area of hay and clover, with 3,535,669 acres. Quebec is next highest in hay and clover, with 2,923,600 acres. This Province has also 1,574,100 acres in oats. Saskatchewan has 1,-847,000 acres in oats; Manitoba, 1,390,000 acres, and Alberta, 820,000 acres. In the three Maritime Provinces the total area in oats is 529,300

At the end of June, 1906, there were 122,398 farms in the Provinces of Manitoba, Saskatchewan and Alberta, and at the end of 1908 the homesteads entered, less all cancellations, increased the number to 190,234, or by 10,853,760 acres. In Manitoba the net increase of the two and one-half years was 4,393; in Saskatchewan, 41,423, and in Alberta, 22,020; but these figures do not take account of farm lands purchased from railway companies and other corporations in the same period. The large increases in Saskatchewan have been made in the regions south of the main line of the Canadian Pacific Railway, and in the western and northern districts. In Alberta they have been made south of the Canadian Pacific, and in the castern ranges of townships north of the railway.

The drouth of summer and autumn was less severe last year than in 1907, but it had the effect of again reducing the numbers of farm animals in the older Provinces. In the whole of Canada horses exceed the number of last year by 14,324; whilst milch cows are less by 68,440; other horned cattle by 245,057; sheep by 126,014, and swine by 457,349. The largest falling off in \$

FOUNDED 1866

The Drag in Dorchester.

A stretch of earth road in North Dorchester Township, Middlesex Co., Ont., being well-nigh impassable during the past wet spring, James Weir, who had made a study of the split-log-drag method of road maintenance, as described in "The Farmer's Advocate," decided to put the principle into practice. He constructed a drag 9 or 10 fect long of two parallel rock-elm planks, 2 x 12 inches, 18 inches apart, and held in position by a couple of stout braces mortised through the planks, the ends projecting a few inches behind the rear plank, to catch the ends of the draw chain. 'The latter passed through two holes cut in each of the planks, so that the team drew on the back plank, and the drag could not pull apart. The heavy chain was hooked in front so as to draw the drag on an angle. Mr. Weir was very much pleased with the improvement so quickly and easily effected in the condition of the road, the crowning and smoothing letting away the water, which works havoc with driveways. On the particular soil in question, he obtained the best results when the surface had passed the stage of being very wet and sticky. found its use decidedly advantageous in levelling up and filling any holes filled with water on a short piece of road surfaced with gravel. In his judgment, many roads could be kept in excellent condition very economically by the regular use of this simple road implement.

Some 1909 Fair Dates.

Alaska-Yukon-Pacific; Seattle, June 1 to Oct. 15. Inter-Western Pacific Exhibition; Calgary, Alta, July 5 to 10.

Winnipeg Industrial Exhibition; July 10 to 17. Inter-Provincial Fair: Brandon, July 19 to 23. Regina Industrial Exhibition; July 27 to 30. Canadian National Exhibition; Toronto, Aug. 28 to Sept. 13.

Western Fair; London, Sept. 10 to 18. Canada Central; Ottawa, Sept. 10 to 18. Sherbrooke, Que.; Aug. 28 to September 4.

Members of the Ontario Government, last week, under the auspices of the Provincial Department of Agriculture, paid an official visit to the 100acre Horticultural Experiment Station at Jordan Harbor, in the Niagara District. Inspection of the institution followed a novel irrsh-fruit luncheon, the product of the farm, served in the superintendent's residence. The party also took occasion to visit the Vineland and Rittenhouse public schools, at both of which school-gardening has been made a most successful feature.

Large quantities of superphosphates are being imported into Australia from Japan, but by the time the cargoes reach the Southern Hemisphere the phosphates have so solidified in the holds of the vessels that they frequently have to be dug out with pick and shovel. The work is hard and attended with risk to health, owing to the fine dust charged with arsenic that fills the holds of the ships. The evil effects are so serious that the Customs Department has considered the advisability of prohibiting the importation of superphosphates in bulk.

Hon. Jules Allard, Minister of Agriculture in

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profitable outing was reached when the visitors lined up on the College campus to partake of the luncheon prepared by the staff and students of the Macdonald Institute.

Such occasional intermingling of city and country life cannot but be productive of mutual benefit to all concerned. Canada is an agricultural country. Upon the farmer depends to a very great degree the prosperity of the city and town. If he fails in his undertaking the professional or business man cannot hope for the greatest success. If this fact were always uppermost in the minds of the people of the city, many of them would have a higher appreciation of the farmer and his calling than they now have. W. J. W.

South Simcoe Notes.

Things are looking fairly well in this section clinnistic Township, S. Sinceel. Of course, we were late getting in the seeding on account of wet spring, and farmers have come to the conclusion they will have to use more tile. I think there is more summer fallowing being done this year. Those who depended on getting stubble in to wheat last fall have not had good results, so are preparing by fallowing. The mangels have not come up very well, on account of the dry spell just after sowing, and many are being plowed up, and turnips sown. Hay will not be so heavy as was looked for earlier in the spring ; after so much wet, the grass seemed soft, and could not stand the hot sun, and the ground baked very quickly; but clover seems to be blooming very well, and late showers have helped the late crops, so the farmers seem hopeful.

Sincoe Co., Ont. I. N. MORTON.

the east occurred in Quebec and Ontario. In Quebec milch cows are fewer by 28,317; other horned cattle by 45,705; sheep by 30,650, and swine by 81,294. In Ontario horses are fewer by 38,018; milch cows by 41,268; other horned cattle by 144,665; sheep by 86,685, and swine by 361,-618. In Prince Edward Island, Nova Scotia and New Brunswick horses are fewer by 1,021; milch cows by 3,577; other horned cattle by 20,115; sheep by 31,123, and swine by 9,316. In Manitoba, Saskatchewan and Alberta the number of horses is more this year than a year ago by 42,-278; milch cows by 4,721, and sheep by 22,814. Other horned cattle than milch cows decreased in these Provinces during the year by 34,482, and swine by 6 121.

Lake Erie Counties Prosperous.

A staff correspondent of the Toronto–Globe, ravelling through the Ontario counties bordering on Lake Erie, found everywhere evidences of prosserity on the farms, not only evidenced by fine iouses and outbuildings, but in the increasing lise and value of the lauid, and a waning demand or loans for the purchase of land and improvements, which farmers are paying for out of their own accumulations. A feature of the presencesson is the erection of new buildings, many iarns going up valued at from \$1,500 to \$3,000 ach.

St. John, New Brunswick, papers report that application for space at the Dominion Fair, to be held in St. John next year, are already being received from points in Upper Canada, as well as the Maritime Provinces. the Province of Quebec, has been investigating the probable cause of the great destruction of timber limits by fire. Examination of reports of the forest rangers has convinced him that the origin is in many cases due to careless new settlers setting fire to wood on their lands to effect clearances. It is reported that Mr. Allard has referred the matter to the law offices of the Government, to have a statute drafted that will be passed at the next session of the Legislature, to deal with the question. It is said that he is determined to put an end to such fires, even though necessary to have a law that will make the offence a criminal act.

Brazil is taking a keen interest in the work of the Dry-farming Congress, and will be represented both with exhibits and delegates at the fourth sessions, at Billings, Montana, next October, 26th to 28th. Dr. Laurence Baeta-Naves, Chief Engineer of the Technical Department of Public Works and Industries in Brazil, has been appointed Corresponding Secretary of the Dry-farming Congress.

The St. John Telegraph says: "It is now aunounced that Deputy Commissioner of Agriculture, Thos. A. Peters, is to be dismissed, and a new office of Secretary created, which is to be handed out to W. W. Hubbard, Conservative organizer of the Province.

The Mail-Herald, of Revelstoke, B. C., says a reduction in fruit-freight rates, running from five to seven cents per hundred on car lots, has been announced by the C. F. R. freight department, to be effective for the present season's shipments. JULY 1. 1909

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THE FARMER'S ADVOCATE

International Horse Show.

Reports agree that the third International Horse Show, held at Olympia, London, England, June 5th to 15th, was graced by probably the largest and best display of equines ever assembled under one roof, 2,500 entries having been made for the £12,000 prize-money and cups. the best United States, Canadian and European stables were pitted against the pick of the British show animals, and each class was judged by one American, one Englishman, and a representative of France, Italy, Holland or Belgium. Commendable as this arrangement might be considered from the standpoint of impartiality, it does not seem to have conduced to despatch or efficiency of judicial work. As for the earning of national honors, while winnings were creditably distributed, the net result may be fairly called a triumph for British breeding. As an English paper puts it From leaper and hunter to Hackney, from polo pony to trotter, there is but one story to tell, and that is that, come whence they did, the forerunners of the exhibits now placed before us originated from the Midlands, from Norfolk, and Yorkshire, and from Ireland.

Great enthusiasm was aroused in the display of English and American draft horses. Last year it was Armour's gray six-in-hand ; this time, the six Clydesdale bays of the Morris Beef Company, thicago, won the honors, and received the popular acclaim, the Percheron team not compeling, having been beaten by the Morris outfit last fall in Chicago. Competition appears to have consisted of Kenneth M. Charles' six Suffolks, which, although a great team of dray horses, were outclassed in respect of quality and style. The Chicago team was superbly handled by Frank Housely, of Lincolnshire, and consisting of horses belonging to the British breeds, two of them having been bred in Scotland, and two in Canada, it might well arouse a Briton's pride. By way of description, we quote the comments of the Scottish Farmer, whose reviewer found them a far iresher team than he expected to see

They make one of the finest displays of Clydesdale draft horses ever exhibited, and are justly entitled to the victory they achieved over the wheel. He was first at the Highland and second at the Royal in 1905, being then shown by Mr. Gridnihs, Plumstead, who showed the great horse at Edinburg last week. Drew was then known as King Harry. He was bred by Mr. Isinay, Waverton, and got by Lord Lothian. He is a magnificent horse still, with big feet, grand Malcolm was formerly known as Johnny, and is the off horse in the wheel. He was bred by Mr. Snowden, Wellfield, Durham, and was got by Prince of Millfield. He was owned and successfully exhibited in Scotland by Mr. Walter Autkenhead and Mr. J. Kilpatrick, and is simply a dandy still. He and Drew are a pair of splendid dray horses, and nothing like them could be matched by the Shires. The middle or body pair-Archie and Robbie-are Canadian-bred Clydesdales. Archie was bred near Toronto, and was got by one of Colonel Holloway's horses, Charming Prince, whose sire was Prince Charming, and his sure, again, was Ceduic. Robbie was also bred in Ontario, and was got by the Macgregor horse. Maclaskie, which was exported a good many years with good feet and legs, and grand tops, but per-The leaders are, on the near side, Angus, and on the off side, Donald, the former bred in Illinois, and, it is understood, got by a Shire horse out of a Clydesdale mare. He is the least satisfactory of the six, lacking the spring at the ald was bred in lowa, and was got by the wellknown Sir Christopher. Clydesdale men should give the Nelson Morris Company a gold medal for sending over a team to advertise the breed as It is reported in some quarters that the Morris Company are building up a new team, having where it is stated that this extra horse was a team by a mishap to one of its members. The Hackney classes were not very strong numerically, but the quality was good. In mature stallions, Richard P. Evans won with Evanthius, a splendid mover. Second was W. Burnett Tubbs' Leopard. Three-year-old stallions were headed by Flash Cadet. In two-year-olds was keen competition between R. Whitworth's Antonious, a free-acting chestnut by Polonius, and Walter Brigg's Albin Wildfire, placing being finally made in order of mention. A cup for the best tlackney mare, offered by Martinez de Hoz, an vrgentina breeder, went to A. W. Hickling's Adbolton St. Mary, champion of the London Spring Canadian winnings comprised a second prize by culous cows. the London Hunt, Master Hon, Adam Beck, in a

class of five teams of three qualified Hunters from one Hunt, the winners being a magnificent trio of browns, Buffoon, Cambrian and Sombre, shown The horses of the Canadian by Mr. Stokes. The horses of the Canadian team were Sir James, Sir Edward, and Sir Frederick. They were rated first on conformation and performance, but lost a few points to their competitors on appointments. Sir James also scored second in a fine class of heavy-weight qualified Hunters, and reserve in a class where conformation only was considered. Sir Edward, after winning one position, was debarred until the last night, by a temporary lameness, owing to an accident, but in the championship beat all the first and second prize winners. The three Canadian horses above named were bred in Western Ontario, Sir Edward in Kent Co., Sir Frederick in Middlesex, and Sir James in Elgin. The second of the three high jumps was won by Capt. Evans, of Montreal, with the bay gelding. Confidence, which cleared the bar at 7 feet. The first event was won by a French horse, at 7 feet 4 inches, and the third by Walter Winans, with a Canadian-bred horse, at 6 feet 9 inches

Among the American exhibitors, Judge W. H. Moore was probably the most successful.

The summary of awards shows the international character of the contest :

Great Britain—52 firsts, 54 seconds, 51 thirds, 36 fourths, 30 fifths, 17 sixths, 43 reserves, and 52 commended

America-34 firsts, 24 seconds, 29 thirds, 23 fourths, 15 fifths, 6 sixths, 16 reserves, and 17 commended

Italy-2 firsts, 5 seconds, 2 thirds, 1 sixth, 1 reserve, and 1 commended.

Belgium-1 first, 2 seconds, 1 third, 1 fourth, 1 fifth, 2 reserves, and 1 commended.

Canada--1 first, 2 seconds, 2 fourths, and 2 re-

 Λ rgentina-1 first, 2 seconds, 1 third, 1 fifth, and 1 commended.

Norway-1 fifth, and 2 commended.

Holland-1 third and 1 fifth.

British exhibitors took eleven cups. United States eight. Canada one, and France one.

Tuberculosis in Hogs.

Reports gathered from the various meat-packing centers of the U. S. show tuberculosis of hogs to be on the increase, and causing heavier loss to raiser and packer alike than any other disease.

Statistics show that a year ago there were over 56,000,000 hogs in this country, and their value at that time was over \$339,000,000. Federal inspection at the abattoirs of the country show two per cent, of the hogs slaughtered to be affected with tuberculosis. Reports from Europe show a far more widespread infection, that runs as high as 5.5 to 7.5 per cent.

The small amount of money required to start in the hog-raising business, and the quick returns on the amount invested, make it an attractive field for operations. Hogs will make greater gains on less feed than almost any other live stock, and at the same time utilize profitably waste food products of every variety, if properly prepared. As tuberculosis of hogs is chiefly contracted through feeding, the significance of the latter feature is obvious.

Hogs from Arkansas, Okiahoma and Texas are remarkably free irom tuberculosis, due to the methods of caring for them, or rather the lack of care. They are not restric disease is commonly found, but roam over large areas to shift for themselves. No prolonged feeding is practiced in narrow limits, but from birth to maturity they are pastured on alfalfa, oats. corn, rape and peanuts. Hogs raised in the forest regions of Hungary are likewise rarely af-fected with tuberculosis. In striking contrast are the hogs slaughtered at three cities in one of the leading dairy States where there are a large number of co-operative creameries, and the raw skim milk is fed. Samples from two of these creameries were injected into guinea pigs, and in one instance virulent tubercle bacilli were recovered. Buyers for packing-houses are learning from bitter experience to avoid sections of certain States, and two firms will not buy hogs from one State known to be badly infected. In fact, many of the smaller packers in the Central West buy subject to post-mortem inspection, as a measure of self-protection.

4. Feeding tuberculous carcasses.

5. Feeding slaughter-house offal.

The danger in feeding hogs behind tuberculous cattle lies in the fact that such cattle discharge enormous numbers of tuberculosis germs in their feces.

Sooner or later the packer will buy subject to post-mortem examination, as some are now doing with certain classes of female cattle. Then the hog-raiser who persists in fattening with tuberculous material will be made to feel the cost of his indifference or lack of knowledge. To-day the buyer makes his purchases with the knowledge that a proportion of his animals will be condemned, and the price fixed accordingly, with the result that the careful breeder suffers with the careless one. This is not equitable. But when the packer buys subject to post-mortem results, the painstaking and intelligent raiser will receive more than he does now, and the ignorant or indifferent breeder will get less, which is more nearly a fair deal for all concerned.-[U.S. Bureau of Animal Industry.

The Annual Fire Sacrifice.

Time was when the timber resources of the Dominion were rated in the terms of a billion acres. Dr. Bell put it at 1,650,000,000 acres of woodland. But subsequent exploration has shown that a great part of this vast extent of territory has been so thoroughly burnt over that it possesses little or no commercially valuable timber. Nowadays, even optimistic estimates place the figures at little over three hundred million acres. Even thus reduced, this constitutes a magnificent amount of timber, but there is no timberland in existence that can long withstand the ravages of forest fires," says Toronto Saturday Night, in the course of a pointed argument for a more adequate fire-ranging system to prevent and control the forest fires which annually usher in the summer season, with such tremendous destruction, consuming not merely the timber, but also, in many cases, the layer of mold in which the trees take root and grow, leaving immense areas of barren and forbidding rocky waste.

Important as are quick and efficient means of getting to the fire, once it has started," re- marks our contemporary, "measures of prevention are more important still. The criminal negligence which goes away and leaves a smouldering camp-fire, or starts to burn brush without due precautions, should be made a penal offence. Some years ago, in Pontiac County, Quebec, a settler, to clear a patch of land for the sowing of two bushels of potatoes, started a fire which destroyed 300,000,000 feet of pine timber, at a loss of over \$3,000,000 to the Province. And it is horrible to read that the recent fires in New Brunswick originated in one case in a fire which had been left as extinguished, and in another in a young farmer burning some waste in a field. Of course, there is always a possibility of accident in these matters, but there is also in most cases a certainty of criminal negligence, and the law should see that men who wantonly cause such damage are properly punished. This is one of the many things to be done, if Canada is to retain her magnificent timberlands. There is no preventing aliens from

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says a om five as been hent, to hents An investigation, carried on by the Bureau of Animal Industry in a certain section of the Middle West, consisted of tagging hogs hauled to market in wagons. Of 3,420 animals tagged, it was learned that all of the affected stock came from less than 6 per cent. of the farms.

It is known beyond all doubt that the majority of tuberculous hogs are produced by the foltowing causes:

1. Feeding raw milk and slime from creamer

2. Feeding hand-separated milk from tuberulous cows.

3. Feeding behind tuberculous cattle.

use in the world in preventing allens from exporting the wood, if it is to be food for forest fires through our neglect of the proper precautions. Much better that the Americans should have it than the flames."

Royal Counties Show.

The show of the Royal Counties Agricultural Society, held at Reading, commencing June 8th, is described as one of the best of the series, exhibits being numerous, and quality superior. The total entries considerably exceeded 2,000. The display of Shires was ahead of anything previously seen at this show, the entries averaging nine to a class, with merit high throughout. Mimm's Champion, a two-year-old, was awarded the male championship, Sir E. Sterns' Danesfield Stonewall being reserve. Female sweepstakes was won by Sir Walpole Greenwell, with Mardon Peach. Among the Shorthorns, a capital class of typical dual-purpose cows were entered for the Shorthorn Society's prize. This show must not be confused with the Royal, which was held at Gloucester, June 22nd to 26th.

The value of the Derby stakes to the King, according to the Racing Calendar, is $\pounds 6,450$.

A party of thirty-one agriculturists from Oldenburg, Germany, have been studying methods of farming and stock husbandry in Britain.

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MARKETS.

Toronto. LIVE STOCK.

At West Toronto, on Monday, June 28th, receipts were 72 cars, consisting of 1,503 cattle, 90 hogs, 117 sheep, and 4 calves. Quality of cattle never better this season; trade brisk; prices firm; exporters not sold; drovers waiting for Tuesday. Best loads of butchers', \$5.75 to \$5.90; good butchers', \$5.30 to \$5.60; mediums, \$5 to \$5.25; common, \$4.50 to \$5: cows, \$3.75 to \$4.75; milk cows, \$30 to \$60; calves, \$3.20 per cwt.; sheep, \$3.50 to \$4.25 per cwt.; spring lambs, 8c. to 9c. per lb.

THE FARMER'S ADVOCATE.

sale, at lower quotations. The good to choice cows sold at \$40 to \$55, with a few at \$58 to \$60, each. Common, at \$25 to \$35.

Veal Calves.-Receipts moderate, with prices a little firmer, at \$3 to \$6.50 per cwt.

Sheep and Lambs.-Receipts fairly large, with prices easier for sheep, but lambs were firm. Heavy, fat ewes, \$3.25 to \$3.75 per cwt.; light ewes of good quality, at \$4.25 to \$5 per cwt.; rams, \$3.25 to \$3.50; spring lambs, 81c. to 91c. and 10c. per lb.

Hogs .- Receipts of hogs were light, and prices firmer, the market at the end of the week closing strong, as follows: Selects, fed and watered at the market, \$8.10 to \$8.15.

Horses.-At the Union Horse Exchange last week the offerings of horses numbered over 150, amongst which were many of the best - quality horses that money could purchase. The demand for this class was not as brisk as usual, the customers visiting the market last week, as a rule, preferring a lower-priced class. Manager Smith stated that it was his intention to have on hand at all times, horses of as good quality as could be bought. Dealers may not only go on the regular sales days, but at any time, and be perfectly sure of getting horses that will suit. Drafters, as a rule, sold from \$170 to \$200, but a few horses of the best quality brought \$220; general-purpose horses, \$140 to \$180; expressers and wagon horses, \$150 to \$210; drivers, \$100 to \$160; serviceably sound, sold at \$30 to \$90. Two loads of the above horses were bought for the Northwest, and the lalance went to local Ontario points.

BREADSTUFFS.

The wheat market is reported by the dealers to have been dull lately, but there was no change quoted in prices. Wheat -No. 2 red, white or mixed winter wheat, \$1.38 to \$1.40. Manitoba-No. 1 northern, \$1.33½; No. 2 northern, \$1.31½; No. 3 northern, \$1.29. Rye-No. 2, 80c., nominal. Peas-No. 2, 95c. nominal. Oats-No. 2 white, 61c.; No 3, 60c., track, Toronto. Barley-No. 3 extra, 62c. to 63c.; No. 3, 61c., nominal. Corn-No. 2 yellow, 814c.; No. 3 yellow 81c., track, Toronto. Flour-Ontario ninety per cent., winter wheat patents, \$5.50, in buyers' sacks. on track, Toronto: Manitoba, first patents, \$6.20 to \$6.40; second patents, \$5.70 to \$6; strong bakers', \$5.50.

HAY AND MILLFEED.

Hay.-Baled, in car lots, on track, To ronto, \$12.50 to \$13.50. Straw-Baled, car lots, track, Toronto, \$7 to \$7.75 Bran-\$24 to \$24.50, in bags. Shorts \$1 more

HIDES AND WOOL.

E. T. Carter & Co., 85 Front street East, Toronto, have been paying as fol-No. 1 inspected steers, 60 lbs. lows : up, 121c.; No. 2 inspected steers, 60 lbs. No. 1 inspected cows, 12c. 11 tc.

Montreal.

Live Stock .- Shipments of cattle from the port of Montreal during the week ending June 19th, amounted to 2,680 head, against 2,277 head the previous week. The local cattle market held firm, supplies not any too large, and demand moderately active. The supply of grassfed cattle was fairly large, but the quality was poor, and the general view was that these should have been held on the farms till in better condition, when better prices might have been realized. Best grassers sold at 54c., medium at 41c. to 5c., and common at 3c. to 4c. Stall-fed cattle brought 61c. to 61c. for choice, 6c. for fine, 51c. to 51c. for good, 44c. to 5c. for medium, and 3c. to 4c. for common. Sheep continued to bring 31c. to 41c., according to quality, spring lambs bringing \$3 to \$7 each, and calves \$2 to \$4 for common, and \$5 to \$10 for choice. The market for hogs was firm, and prices were 8%c. to 8%c. for selects, weighed off cars.

Horses .- Market dull in Montreal last week. Supplies continued light, and prices showed little or no change. Heavy draft, 1,500 to 1,700 lbs., \$225 to \$300 each; light draft, 1,400 to 1,500 lbs. \$185 to \$240 each; small animals, 1,000 to 1,100 lbs., \$100 to \$150 each; inferior, broken-down animals, \$75 to \$100 each, and choice saddle or carriage horses, \$300 to \$500 each.

Dressed Hogs .- Demand for dressed hogs was very good, considering the hot weather. It is probable, however, that they were wanted by packers, and not for immediate consumption, so that the weather would have little influence on them; 12c. per lb. for selects.

Potatoes .- It begins to look as though the supply of potatoes would shortly become scarce. Green Mountains were purchased at about \$1.10 per 90 lbs., carloads, on track, and P. E. I. stock was obtainable at about 94c.

Eggs .- Hot weather has been having its effect on the quality of the eggs, and. consequently, on prices. Up until recently, however, although buyers had been doing their best to obtain stock at 161c to 17c., at country points, it looked as though they had been able to get very little of it at better than one cent more than these figures. Straight-gathered stock sold at 19c., No. 1 candled selling at 19c. to 191c., and selects at 22c. per

Butter .-- Continued at an exceptionally high figure, and it is said that there is little or no demand for export. Townships creamery sold here last week at about 23%c. to 23%c. per lb. Fresh dairy, in tubs, sold at from 18c. to 19c. per lb. On Monday, 28th, creamery broke to 21%c. to 22%c. in Townships, selling here at 23c. to 231c.

Cheese .- A moderate demand for export is reported. Ontarios sold here at 13c to 13kc., while Quebecs were quoted a

FOUNDED 1866

IMPERIAL BANK OF CANADA

CHARTERED 1875.

Capital Authorized, \$10,000,000.00 Capital Paid Up, - 5,000,000.00 - - 5,000,000.00 Reserve,

SAVINGS DEPARTMENT.

\$1.00 opens an account. Interest paid at highest current rate from date of deposit.

Farmers' sale notes discounted. Branches throughout the Dominion of Canada.

for No. 3 hides, 12c. for No. 2, and 13c. for No. 1, and 14c. for No. 2 calf skins and 16c. for No. 1, selling to tanners at jc. advance. Lamb skins 20c. each, and sheep skins \$1 each. Rough tallow, 13c. to 3c. per lb., and rendered, 5%c. to 6c. per lb

Representative Cheese **Board Prices.**

Alexandria, Ont., 11 5-16c. Kingston, Ont., 11 5-16c., 111c. and 11 11-16c. Belleville, Ont., 11%c. to 11 7-16c. Winchester, Ont., 11 7-16c. Brockville, Ont., 113c. Vankleek Hill, Ont., 11 5-16c. to 11%c. Perth, Ont., 11%c. Napanee, Ont., 11 5-16c., 11 7-16c. and 111c Picton, Ont., 111c. Iroquois, Ont. 11 5-16c. Cornwall, Ont., white, 11%c. colored, 11 7-16c. Brantford, Ont. 11 7-16c., 11½c., and twins, 11 9-16c. Ottawa, Ont., 11½c. to 11%c. Kemptville, Ont., 11%c. St. Hyacinthe, Que., butter, 22c.; cheese, 11 1-16c. Cowansville, Que., butter, 22%c.; cheese, 11%c. Chicago, butter, creameries, 22c. to 25c. dairies, 20c. to 23 tc.; cheese, easy; dairies, 14c. to 14¹/₄c.; twins, 13¹/₄c. to 13¹/₅c.; Young Americans, 14c. to 141c.; long horns, 14c. to $14\frac{1}{4}c$.

Chicago.

Cattle-\$5.10 to \$7.85; Texas steers, \$4.75 to \$6.25; Western steers, \$4.75 to \$6.25; stockers and feeders, \$3.60 to \$5.50; cows and heifers, \$2.50 to \$6.50; calves, \$5.50 to \$7.50.

Hogs.-Light, \$7.05 to \$7.70; mixed. \$7.25 to \$7.35; heavy, \$7.30 to \$7.90; roughs, \$7.30 to \$7.50; good to choice heavy, \$7.50 to \$7.90; pigs, \$6.10 to \$6.90; bulk of sales, \$7.45 to \$7.75.

Sheep and Lambs.-Native, \$3.50 to \$5.85; Western, \$3.75 to \$5.75; yearlings, \$6 to \$7; lambs, native, \$5 to \$8; Western, \$5.50 to \$8; spring lambs, \$5.50 to \$8.85.

REVIEW OF LAST WEEK'S MARKET

The total receipts of live stock at the City and Union Stock-yards last week were 319 cars, comprising 5,034 cattle, 3,131 hogs, 2,602 sheep and lambs, 624 calves, and 151 horses.

At both yards, especially at the City. there was a falling off in the numbers of stall-fed cattle, with a corresponding increase in the receipts of grassers. The market was strong for all cattle of good quality, especially for the stall-fed, as well as those fed meal while on grass, of which there were not a few. Trade was good all week for finished cattle, with prices quite as high as at any time this season.

Exporters.-Export steers sold at \$5.75 to \$6.60, the bulk going at \$6.20 to \$6.30; export heifers, \$5.40 to \$6; bulls \$4.75 to \$5.50; cows, \$5 to \$5.30.

Butchers' .- Prime picked lots sold at \$5.75 to \$6; loads of good, \$5.60 to \$5.85; medium, \$5.25 to \$5.50, common \$4.50 to \$5.15, cows, \$3.25 to \$5.25; canners, \$2.25 to \$2.75.

Stockers and Feeders - Trade in feeders and stockers was light, farmers and dealers refusing to pay prices asked, and, in fact, bidding lower. Feeders, 800 to 900 lbs. each, were most in request, and sold at \$4.40 to \$4.75 stockers, 400 to 700 lbs., sold at \$3 to \$4 per ewt.

Milkers and Springers. Receipts were moderate. Good to choice cows sold at about steady prices. Common light cows, and backward springers, were slow

No. 2 inspected spected cows and bulls, 10c.; country hides, cured, 10%c. to 11%c.; calf skins 14c. to 16c.; horse hides, No. 1, \$2.75; horse hair, per lb., $5\frac{1}{2}c$, to $6\frac{1}{4}c$; sheep skins, each, \$1.30 to \$1.50; wool, unwashed, per lb., 18c. to 20c.; wool rejects, per lb., 14c.

COUNTRY PRODUCE

Butter.--Receipts large; prices firm Creamery pound rolls, 23c. to 24c. creamery solids, 22c.; separator dairy 19c. to 21c.; store lots, 18c. to 19c. Eggs.-Receipts moderate: prices firmer at 20c. to 21c.

Cheese.-Receipts of new, large, 121c to 13c. Old is becoming scarce, and is quoted at 14c. to 141c.

light, and prices are higher. Primes \$2.20 to \$2.30, hand picked, \$2.35 to

Potatoes. Car lots of old potatoes, on track, Toronto, are quoted at 75c, to

Poultry.-Receipts light; prices easier, Turkeys, 17c, to 20c, per lb.; spring ducks, 30c. to 35c, per lb.; spring chickens. 30c. to 35c per lb.; fowl, 10c. to

TORONTO FRUIT MARKET

The wholesale fruit market was opened last week, when an average of about three carloads of strawberries per day were received, with a few sweet cherries. Strawberries sold from 8c. to 12c. per quart cherries, per basket, 75c to \$1.

12%c. to 12%c., and Townships at 13c. On Monday, June 28th, prices were lower in sympathy with a drop in country prices, Quebecs being available here at 11%c., Townships 11%c. to 11%c., and Ontarios at 11%c. to 11%c.

Grain.-Market for oats is exceedingly interesting and uncertain, fluctuations being violent. No. 2 Canadian Western oats may be quoted at 60c. to 601c. per bushel, No. 1 extra feed being 59%c. to 604c., No. 1 feed being 591c, to 60c. No. 3 Canadian Western 58%c, to 59c No. 2 Canadian barley sold at 721c. to 74c., and Manitoba feed barley at 671c to 68c., buckwheat being 69%c. to 70c.

Feed.-Ontario bran and shorts unobtainable. Manitoba bran selling at 22 to \$23 per ton, in bags, and shorts at \$24 to \$25, pure grain moullie being \$33 to \$35, and mixed being \$28 to \$30.

Flour.-S6.30 per barrel, for Manitoba first patents, \$5.80 for seconds, and \$5.60 for strong bakers, the range being to 10c. or 20c. higher. Ontarios are \$6.75 for patents, and \$6.50 to \$6.60 for straight

Hay.-There is a moderately active demand, and prices are very firm. Quotations are \$14 to \$14.50 per ton, carloads, track, Montreal, for No. 1 baled, \$1 less for extra No. 2, \$11.50 to \$12 for No. 2, \$1.50 less for clover mixed. and yet a dollar less for clover.

Hides .- Demand fair throughout, the prices. Dealers were paying 11c. per lb.

Buffalo.

Cattle.-Prime steers, \$6.85 to \$7.15. Hogs.-Heavy and mixed, \$8 to \$8.10; Yorkers, \$7.15 to \$7.90; pigs, \$7; roughs. \$6.75 to \$7; dairies, \$7.35 to \$7.90. Shep and Lambs.-Lambs, \$4.50 to \$8.75; yearlings, \$6.50 to \$6.75; wethers. \$5.25 to \$5.50.

British Cattle Markets.

London cables for cattle $13\frac{1}{2}c$, to $14\frac{1}{4}c$ per 1b. for Canadian steers, dressed weight; refrigerator beef, 104c. to 102c.

An insurance man declares that he tried this scheme the other day, and that it worked. He found himself caught in a rainstorm, and, being in too much of a hurry to wait for it to stop, he was obliged to acquire an umbrella right away, quick. He paused under an awning and waited, he says, until somebody came along who sized up as a man with guilty conscience. Then the insurance man stepped up to the stranger, saying

"I'll trouble you for my umbrella "" The stranger stared at him a moment. handed over the umbrella, and walked away, muttering a word of apology.

Of course, the insurance man admits, the scheme might not always work, and warm weather having little effect upon a certain amount of discrimination should be used in the selection of the victim.

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and 13c calf skins anners at each, and low, 1½c. c. to 6c.

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Kingston 1 11-16c 6c. Win ville, Ont. 5-16c. to Napanee nd 113c is, Ont. ite, 11%c d, Ont 11 9-16c Kempt the, Que. Cowans ese, 11ªc . to 25c easy; dair to 13ªc. Hc.; long

xas steers \$4.75 to \$8.60 to to \$6.50

70; mixed. to \$7.90; to choice \$6.10 to \$7.75. \$3.50 to yearlings. \$8; Wests, \$5.50 to JULY 1. 1909

QUESTIONS AND ANSWERS.

1st.-Questions asked by bona-fide sub-scribers to "The Farmer's Advocate" are answered in this department free. 2nd.-Questions should be clearly stated and plainly written, on one side of the paper only, and must be accompanied by the full name and address of the writer. 3rd.—In Veterinary questions the symp-toms especially must be fully and clearly stated, otherwise satisfactory replies can-

Miscellaneous.

A MORTGAGE ENCUMBRANCE.

Can a person, by giving six months notice to a person who has a mortgage on a farm that he has just purchased (and who is charging more than the legal rate of interest), compel the mortgagee to accept his money and release the mortgage ? Ontario.

Ans.-Probably not, if the mortgage term has not expired, and there is no privilege expressly given by the instrument itself for payment off before maturity. But you should have a solicitor see the mortgage and advise you as to the rights of the purchaser from the mortgagor in respect of it.

POISON IVY.

Is there anything that I could get, or what is best thing to do to kill poison ivy, which is running in the grass? have some spreading in my lawn and I am afraid the children will get poisoned running through it.

A SUBSCRIBER.

Ans .- Digging it up and burning it is the only remedy. Gloves should be worn while at this work, and it would be well also to defer the job until later in the season when there would be less danger of getting poisoned. We have known fairly successful work in eradicating ivy to be done with a grass sickle or corn hook, using the point only, and with it cutting each root off below the crown.

VARIETY OF FALL WHEAT FORMALIN FOR SMUT.

1. What variety or name of wheat do you recommend best for heavy clay soil? 2. Would it be advisable to sow it about the middle of August on summerfallow ?

3. Would you advise me to put forma-In on seed wheat, or is it dangerous? I think it should keep away the smut, same as in other grains?

4. Which is best time to kill small undergrowth in bush land; which month? J. A. E. Bruce Co.

Ans.-1. No other variety is so popular, or such a good yielder, as Dawson's Golden Chaff. Imperial Amber comes second, but it is weaker in the straw. and bearded.

2. The latter end of August would be better, especially on summer-fallow. 3. If too strong a solution of formalin

know Take a piece of light, tough wood, that will not split (basswood, for instance), about six inches long, five inches in width, and an inch thick, or less. On one side of it whittle an oblong opening which will fit into the animal's nose somewhat after the manner of the oldfashioned bull ring, called a "humbug." This piece of wood will flap down over the animal's nose so that it cannot reach to urgent veterinary or legal enquiries, \$1.00 must be enclosed. the teat. The contrivance does not pre-vent the animal from grazing or feeding in stable. Another contrivance well in stable. Another contrivance well spoken of is a leather halter, or bridle, with a bit jointed in the center and bridle the animal as you would a horse. It is said the animal can feed without serious inconvenience with this device.

SPITTLE INSECT.

In our pasture field there are places, some covering an acre or more, where the grass is covered with stuff that looks like froth, or spittle, and is on almost every stalk, or between the stalk and the first leaf, about the size of a pea or larger, and in the center is a small white maggot, slightly dark at one end, and flying around it are hundreds of small white millers. I noticed some of it last year, but not so plentiful. Could you tell me what it is ?

A SUBSCRIBER.

Ans.-The species of insect referred to is well named the Spittle insect. It calls forth inquiries every year, but seldom from one who has observed it so discriminatingly as the present inquirer, for it is usually supposed to be the product of snakes, or toads, or the excretion of the plant itself. In the larval stage described above, the young insect takes up a position on a grass stem, inserts its sucking beak into the plant, and from its anal segment exudes the albuminous, frothy mass, that at once conceals and reveals if. There are several species of spittle insects. The one known to entomologists as Philaenus spumarius – a European introduction-is probably the commonest one with us on grasses. Its favorite position is at the junction of the stem and leaf. It develops into a winged insect, but not the white miller observed by the inquirer; it may more frequently be observed running, sometimes running sideways, then flying. The larvæ from their nature of feeding have an injurious effect upon the grass stems, but they are seldom numerous enough to produce any noticeable injury. If it were not for the frothy masses, their presence would hardly be discovered. The female lays only about ten eggs, an unusually small num-J. D. ber for this class of insect.

Veterinary.

PARTIAL DISLOCATION OF PATELLA.

Yearling colt was all right this spring when turned out on pasture. It is now lame, and a soft lump has appeared just J. W. below the stifle joint. The patella (stifle partially dislocated, and the soft lump is a porcellaneous deposit resulting from the trouble. It is not probable the animal will ever be all right again, but, if properly treated, should make a useful animal. It should be taken to the stable, kept as quiet as possible, and the joint blistered repeatedly. Get a blister made of two drams each of biniodide of mercury and cantharides, mixed with two ounces vaseline; clip the hair off the front and inside of the joint, and rub the blis ter well in. Tie so that he cannot bite the part. In 24 hours, rub well again with the blister, and in 24 hours longer apply sweet oil. Turn loose in a box stall now and oil every day. As soon as the scale comes off, tie up and blister again, and after this blister once monthly for four or five months.

GOSSIP.

THE FARMER'S ADVOCATE.

He-"These glasses give me a very intellectual appearance, don't you think ?' She-"Yes. Aren't they powerful."

After a recent local-option fight in an Ohio town, the wife of one of the "dry" workers remarked to her husband one morning that their cow would soon be dry. Whereupon their little girl looked up with surprise and said : "Why, mamma, was she wet ?"

"Not a horse on hand," is the report of John A. Boag & Son, Queensville, Ont. However, Mr. Boag intends to sail for the Old Country on July 9th for a shipment of Clydesdale stallions and mares, which he expects to arrive home about August 20th, after which date he will be pleased to supply anyone wanting a first-class stallion or mare.

H. Smith, Exeter, Ont., writes : "The show cattle I am advertising in this issue of 'The Farmer's Advocate' are as promising a lot as was ever on the farm at this time of the year, all possessing breed character, scale and quality to an unusual degree, and they are in nice fix to go on with and be in proper bloom by fair time. The character of these cattle may be inferred from the fact that this herd has bred as many first-prize winners at Toronto during the last three years as any other two herds in Canada, and this notwithstanding that our herd numbered little more than half of that of several of the other leading exhibitors, our exhibits being almost entirely confined to the younger classes, where competition was keenest. These facts may be verified from the records published in the Herdbook. We have excellent specimens in almost all the different ages, and any intending exhibitor will find material here to strengthen a weak spot in his herd.

SUPPLEMENTARY LIST OF FAIR DATES.

Since sending to press the form in which the list of Ontario fall fair dates appear (see page 1094), we have received from the Superintendent of Agricultural Societies the following supplementary

HSU.	
Astorville	28
Brussells	1
Beamsville	30
ColborneOct. 5 and	5
Dunchurch	5
Emo	17
Guelph	16
Houghton	6
Lion's Head	80
Millbrook	1
Picton	23
Paisley	29
Rainham	23
Stratford	29
Springfield	24
Wingham	29
wingham	

Welland

1077

THE SPICE OF LIFE.

The inhabitants of a certain rural parish had been paying over-much attention to sampling the local whiskey, and the minister took advantage of his position in the pulpit to administer reproof.

'An' I tell ye, one an' all, ye're on the way to Perdection !" he cried. At that moment a fly settled on the Bible before him. He raised his fist.

"Ye're gaein' tae H-," he shouted; "and ye'll a' get there just as sure assae sure as I ding the life out o' this flee !'' His fist crashed down as he uttered the words, then he looked to see the results of his handiwork.

"Missed !" he ejaculated ; "ah, weel, maybe there's a chance for some o' ye yet !"

"You know," said the man, "how innocently your wife will look at you across the breakfast table when you have searched your pockets and discovered a sovereign missing.

"You may have your suspicions, but you must keep them to yourself. I stood it for two or three years before a bright thought came along. Then I got hold of a counterfeit sovereign, a hopelessly bad one, placed it in my purse, and when I got up one morning and missed it, I felt happy.

"Two hours after breakfast my wife went out, and at noon 1 was sent for to identify her at the police station. She had handed that bad sovereign out in payment for an umbrella and been caught, and she had been a prisoner for two hours when I got there."

"And what did you say?" he was asked.

'Not a word.''

"And what did she say?" "She laid it on the milkman, of course.

GRAVE AND GAY.

He knows not the value of flowers who knows not botany.

Men are to be judged by where they are going rather than by whence they came. Some people get on in the world; most just get on in years.

Afterthoughts are usually best-woman was an afterthought.

The fewer friends you have the more popular you are with yourself.

When a woman loses anything she atways thinks someone stole it.

Some people never work so hard as when they are doing useless things without pay.

All the world's a stage; it's only the failures amongst the actors who find time to be critics.

Many a man's popularity is due to the fact that he doesn't think aloud.

The easiest way to do anything may not be the best, but it is the most popular.

WHEN THE GRASS IS GREEN.

Gather a single blade of grass, and exute quietl v its narrow

to \$7.15. to \$8.10; \$7; roughs. \$7.90. , \$4.50 to 5; wethers,

rkets.

c. to 14‡c s, dressed c. to 10½c.

hat he tried and that it aught in a much of a op, he was brella right der an awnil somebody a man with he insurance nger, saying

a moment, and walked

pology. n**an ad**mits. work, and ation should the victim.

used, the seed is injured. he sown as soom as possible after being treated. We give treatment recommended for ten bushels. Spread the grain on the ground floor, and sprinkle with a solution of two ounces of formalin in four gallons of water. Shovel while the sprinkling is being done, till all is thoroughly dampened. Then shovel into a conical pile, cover with old blankets, and in three hours shovel out, and keep stirred until dry.

4. There is no better time than the latter end of June.

TO PREVENT SUCKING.

Can you give me any information, through your valuable paper, how I can stop a calf, a yearling, from sucking its mother. She is just as hig a fool as the calf, and will stand the sharp brads I have driven in the halter I keep on the calf's head to try to prevent sucking. DAIRYMAN.

Ans.-Probably the best plan would be to separate the yearling from the cow, with one or two other young cattle to keep it company. After a time, it will, doubtless, forget the habit. Other than this, and the plan you have tried, we cannot suggest anything with confidence. It may be that one of the following suggestions recommended to prevent selfsucking would answer. You may try them if you think worth while. If so, and they succeed, please write and let us

Sportsman to Gillie-"You might go over to Miss Smith's, give her my compliments, and say I will be unable to come to her party to-night. You might also repeat to her this piece of poetry-"Though lost to sight to memory dear." Donald arrives at Miss Smith's house and is answered by the young lady herself.

Donald-"Mr. Brown will not be able to come to your party to-night, as he's fou' o' complaints, but though he's lost his sight his memory's clear."

Oct.

H. J. Davis, of Woodstock, Ont., recently sold to R. H. Reid & Sons, Pine River, Ont., the imported roan yealing bull, Best Boy, bred by Geo. Walker, Tilleygreig, Udney, Aberdeenshire, Scotland; sired by Duke of Gordon (88456); danı Bessie 48th, of the famous Marr Bessie family. This is a very promising herd-header, of the type that pleases. being low to the ground, with plenty of Shorthorn character, and no doubt will make the Pine River herd still more famous. Capt. T. E. Robson, of London, purchased the yearling show heifer, Merry Duchess, sired by Queen's Counsellor (imp.), a grandson of Brave Archer; dam Eastern Duchess (imp.), by Prince of Fashion, and bred by the Messrs. Law, of Sanquhar, Scotland. Other sales made by Mr. Davis include a pair of choice two-year-old heifers, to John Mackay & Son, Wilkesport, Ont.; to J. M. Findlay, Markdale, the roan yearling Shorthorn bull, Castle Guard, by the Duthie bull, Westward Ho (imp.); dam Mina Chancellor, by Bapton Chancellor (imp.). This was a mail order, 1 which gave Mr. Findlay the best of satis- herds and flocks-the power of all shepfaction. Mr. Davis informs us that he herd life and meditation-the life of sunhas on hand an extra good red yearling ! imported Shorthorn bull still for sale. and a choice lot of cows and heifers of different ages.

sword-shaped strip of fluted green. Nothing, as it seems, there of notable goodness or beauty. A very little strength, and a very little tallness, and a few delicate, long lines meeting in a point-not a perfect point, either, but blunt and unfinished-by no means a creditable or apparently much-cared-for example of nar ture's workmanship; made only to be trodden on to-day, and to-morrow to be cast into the oven; and a little pale and hollow stalk, feeble and flaccid, leading down to the dull, brown fibers of roots. And yet, think of it well, and judge whether, of all the gorgeous flowers that beam in summer air, and of all strong and goodly trees-stately palm and pine, strong ash and oak, scented citron and burdened vine-there be any by man so deeply loved, by God so highly graced, as that narrow point of feeble green. And well does it fulfill its mission. Consider what we owe merely to the meadow grass, to the covering of the dark ground by that glorious enamel by the companies of those soft and countless and peaceful spears. All spring and summer is in them-the walks by silent, scented paths -the rests in noonday heats-the joy of light upon the world, falling in emerald streaks, and falling in soft, blue shadows. where else it would strike upon the dark mold or scorching dust .- John Ruskin.

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DME MAGAZI IFE · LITERATURE & **EDUCATION** ·

THE FARMER'S ADVOCATE

well under way. We once heard of a fares as badly, almost, as if he were consider it my privilege to give you, every country vast strides had been teacher who, in her application, the culprit himself. To such an ex- under my own hand, some more of stated that she would "teach for tent has this practice become gener- the incidents, and to quote some five dollars less than any other teacher who applied "--an ignominious application, but more ignominious still the action of the trustees who accepted it. The quality of the teacher engaged in a section is no unimportant consideration. Upon it, to some extent, undoubtedly depends, often overwhelmingly, the future success or failure of the children thrown so unreservedly upon an influence stronger than any save that of the parents, at an especially formative period of life. The best teacher procurable is, then, none too good for the children, and the best teacher is the Toronto Exhibition this year. not likely to hold his or her services too cheaply.

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The question for each board of trustees which desires to do its duty faithfully to the section, should not be, "How little can we secure a teacher for ?" but, " How can we secure the best teacher for the best salary the section can afford to pay ?'' The pocketbook should never be saved at the expense of the child.

The habit of adding "state salary wanted " to advertisements for teachers is only to be reprehended. To state the salary a section is willing to pay for a good teacher, is by far the better way-more satisfactory to both trustees and teacher. This method is steadily growing in favor, and it is to be hoped that, ere long, it will be universally adopted.

* * * *

At the conclusion of the inquest into a recent murder in Winnipeg, the coroner of that city was courageous enough to call attention to a growing evil in our modern courts of justice. He referred to the increasing and objectionable practice of brow lawyers are not guilty, but a great many cannot resist the temptation

witnessed some incident in connection as to its details. Beyond seeing or hearing, he has no connection with the affair whatever. But in the interests of justice, as a good citizen, he desires the perpetrator to be captured and deterred in some way from repeating his crime. The eye-witness makes no attempt to conceal his knowledge, and, called to give evidence, goes willingly into the box. That is the way it ought to be. But what really happens ? An honest citizen, innocent of any wrong-doing, de into the witness-box prepared to tell himself, he could not be treated more unfairly. He is questioned and doubts of his truthfulness, and he himself begins to wonder if he does

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The season for hiring teachers is respect are both besmirched, and he on, as a kind of aftermath, I shall tions," where we learned that in al that the coroner believes that men will do their best to conceal the fact words which may continue to fall that they know anything about a case, with the result that important other lands who have joined with knowledge is withheld from the prosecution, and the criminal is never punished. It might be remarked that Winnipeg is not the only Canadian city in which this condition_exists.-[Winnipeg_" Farmer's Advocate.

People, Books and Doings.

Lord Charles Beresford will open

Miss Nellie Edwards, owner and manager of the Coaley Poultry Farm, sity. This hall was most artistical-Gloucestershire, Eng., was one of the 1y decorated with groups of the flags interesting visitors at the "Quin-quennial," Toronto, last week.

D. Lorne McGibbon will build sanitarium for consumptives at St. Agathe, in the heart of the Laurentian Mountains. The building will cost \$100,000.

W. T. Stead has announced that he intends to open a bureau for communication with the other world. The correspondent "on the other side," he declares, is Miss Julia Ames, formerly on the editorial staff of The Union Signal, of Chicago, From her, he asserts, he has had sev

The biography of Algernon Charles life-long friend, Theodore Watts-Dunton.

A Bicentenary celebration of the birth of Dr. Samuel Johnson will be held at Lichfield, Eng., in September

Four hundred Peers own over 5 beating and bullying witnesses. All 000,000 acres of land in England, More than three-fourths of the entire land of England and Wales is owned deen replied, amid much applause. to build up reputations as clever by 1-785th part of the population. She drew attention to the fact that cross-examiners at the expense of the Of the 32,000,000 of people in England and Wales, 31,000,000 are with- W, and that, while many new friend-Take, for instance, a man who has out any right whatever to the land ships will be made, many old and of the countr

more of the many wise and helpful from the lips of our guests from the women of Canada in this sisterbood of service, in which " all races, all creeds, all classes " are embodied, and which has taken for its guiding motto the golden rule, "Do unto others as ye would they should do unto you.

NOTES BY MRS. PARSONS.

On Wednesday, June 17th, the first men, whose coming has been so long looked forward to, took place in the Convocation Hall of Toronto Univerof the different nations taking part in this International Council; while, over the platform, The Golden Rule, the motto of the Council, was printed in golden letters. Flowers and palms, too, had a part in the beauty and harmony of the arrangements, and here, under the gracious leadership of Her Excellency the Countess of Aberdeen, the note of welcome was

Lady Edgar, president of the Canaword of greeting, saying the very word Toronto meant "meeting-place"; so this city, in name, as its present purpose. And this new Swinburne is to be undertaken by his land, palpitating with life strong them all welcome, in English, in Ger-

> the Lieut.-Governor, all spoke along the same line, to which Lady Aber-

taken; that food supply is under continual inspection and supervision; sanitary housing conditions; the health of the mother, as well as the child, is taken into consideration; and such questions as good water and purer air, were ably dealt with.

FOUNDED 1869

As Mrs. Edwin Gray, Great Britain, put it, it was one thing to imagine high ideals, but another to carry them out. We must never let our enthusiasm die, but just get rid of our fads, and work with warm heart but cool brain.

Dr. Elliott Brown spoke a few words on what is being done in Toronto, and told of a remarkable cure. in one week, of a child suffering from tubercular affection, through the new vaccine treatment. He stated many if not most diseases could be prevented; that last year, one case in every eight treated at the cottage hospital, was due to alcoholism, and that, though we looked upon the abolition of slavery as one of the greatest historical facts, he believed it would take a second place when the abolition of the bar was brought

was held at the Margaret Eaton School, when Miss Dendy, of Manchester, England, spoke on "The Care of the Feeble-minded." She founded the Lancashire and Cheshire Society for the permanent care of the feeble-minded: She now has under her care five homes, an industrial School, and 100 acres of land under cultivation for the use of the homes. The problem in England is too immense to deal with. They can only hope to keep the evil from growing. One case mentioned was that of a poor woman, next door to an imbecile, having a family of 21 children, all lacking the intellect necessary to make a livelihood. Miss Dendy stated that, the lower the intelligence, the greater were the animal that, in the case of marriage of such large families. Legislation must lawful for such to marry, and the only way to deal with the question was to take the children and keep possible. They were always children, for that matter, and must le cordance with their strength, and al-

A Champlain tercentenary celebration will be held upon the shores and waters of Lake Champlain, beginning July 1th, and ending July

Miss Mamie Dreams, a sixteen-year old girl, has a perfectly-formed man's throat, which promises great things der of the Laryngological Society

A Great Opportunity.

of the Home Magazine to accept, in

forces which make for peace, health,

Australia and Hungary.

At the first meeting, on Friday, an

mindedness did not seen to be the is, but it was always inherited in some way or another. Among

Another good address was given by Dr. Elliott in connection with the were : A careful patient is not a danger in the home; 90 per cent. of children are infected with the germ cures of every kind : they are abso-

If cases are taken in early stages. this is a curable disease. There is no danger in the breath of a conDED 1866



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e a few ne in Tough the le stated could be lism, and pon the of the believed rce when

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JULY 1, 1909

this week

which must be burnel or destroyed. These few notes will give some small idea of the introductive work of the I. C. W., but no report could adequately give a right significance of what this Congress stands for among the nations.

H. A. B. would like to add that her introduction of Mrs. Parsons as a substitute for herself, as a correspondent of "The Farmer's Advocate," obtained for her a good hearing position at each of the preliminary meetings, and a kindly recognition by the staff of the Press Committee, from whom, also, a warm welcome is assured for our own editor of the Home Magazine, when she attends, as we hope she will be able

Hope's Quiet Hour.

to do, the Quinquennial Congress

11. A. B.

The Beauty that God Loves.

So shall the King have pleasure in thy heauty, for He is thy Lord God, and

Make me Thy temple; silently upbuild Within my heart Thy holy dwelling-

And let its deep recesses all be filled With the rich overflowings of Thy grace; $M_{\rm Y}$ being's chords and discords all are

Waiting the revelation of Thy Face."

nature, and the attempt to crush it is an attempt to crush part of our divinelyinherited life. Our heavenly Father loves beauty, and no one need be ashamed of that natural longing after the beautiful. How do I know that God loves beauty? Why, because He has made heauty everywhere. We see it in the ever-varying sky and sea, in mountain and valley, in lake and stream. We see it in each tiny flower or delicate weed, in birds and animals, and, most of all, in that which is always the favorite study of painters and sculptors-the human body.

But God can never have pleasure in a beauty that is only skin-deep. If you desire to please the King with your beauty, it will not help you much to study advertisements of heauty - doctors, nor to try the effect on the complexion of various lotions and cosmetics. The heauty of a face is not a thing to be despised, by any means. It is a gift from God, a talent which has great power for good or for evil. If God has made you outwardly beautiful, do not despise His gift, nor disown it, but thank Him for it in all modesty, and use it to influence others for good. If you are not moderately autiful outwardly, but only comely, it is surely right to make the hest of your appearance; for to be slovenly in dress is to lessen your influence and influence can always be used for God. I once heard of a lady who said that ifter she began to teach a Bible-class of young men, her clothes cost twice as much as they had done before. That is cather an extreme way of looking at the question, I think, but certainly it was wise to dress becomingly.

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indulging in that debasing amusement which is usually called "flirting," most of the flame rightfully belongs to the girls. If they are quiet and reserved, the boys will seldom venture on any undue familiarities. If they grow affected in the presence of the opposite sex, and giggle and talk loudly, of course the young men will follow suit. Sometimes, on a train or an excursion boat, a party of young people will make itself very unpleasantly conspicuous-and it is usually the fault of the girls. This may sound severe, but men very seldom dare to take liberties with women if they know that the women will shrink away in disgust.

A great responsibility rests on the women of the world, for there is a good deal of truth in the assertion that "men are what the women make them." When a woman recklessly sacrifices her inner beauty of soul-the modesty and purity of thought and word that is her patural birthright-she helps to drag down the men who are thrown in contact with her.

A young man's idea of womanhood should be a high one; look to it, girls, that no young man finds it lowered by conversation with you. If he sees in you the beauty that God loves, if he dare not in your presence use a coarse or irreverent expression, he will be inspired to try to be worthy of your friendship. and your hand will help him up instead of dragging him down.

It is by thoughts that you will most certainly influence others for good or for evil. It is useless to talk in a lofty strain, if your thoughts are vain or lowering; for thoughts always make themselves felt. Treasure your white beauty of soul, keep the innocence of childhood unstained, and let it blossom out in the richer heauty of glorious purity. Let the light of God's Beauty pour down always on your upturned face, until His glory is your eyes, in reflected brightness of holi-

Remember that your stainless beauty of soul is vert dear to the King; surely you His eyes—eyes that look right down into your heart-see no beauty that He can find pleasure in, do not shrink away from His searching gaze. Press nearer to His scorching light, ask in tremendous earnestness for pardon and strength, give no welcome to any thoughts which are ashamed in His presence. Beauty that has been lost may be regained. If you have recklessly sacrificed your dearest treasure-the white purity of your sul-

was pressed to His Father's heart, the deserves a very wide circulation. It is forgiveness was not partial, but absolute. deeply spiritual, and for the devotional He was restored to the position of a reader, is strong and helpful throughout. loved son, he was dressed in the best It takes the Bible as it stands, and just robe, and given a ring in token of a return to favor. If penitence is real and ginning to end. Some of the quotations deep, the new beauty which God bestows are very fine indeed, and indicate a on a forgiven soul has a glory which is breadth of reading. The number of on a forgiven soul has a glory which is all its own.

But let no one think that he can sacrifice innocency without lifelong regret. There is a radiant gladness belonging to one who has stepped out of a beautiful childhood into a stainless manhood or womanhood, which one who has thrown away his birthright vainly longs to regain

Beauty of soul is the birthright of both men and women, a gift of great price to the world. Some men feel very injured and indignant if the women they love allow the pearl of their radiant purity to be dimmed by a shadow of evil, and yet they dare to offer those women a hand and heart which are far from clean. Is it the fault of the women that men can satisfy them so easily with a very low standard of holiness ? Men shrink from associating on equal terms with a woman who is not lovely in her life-and women rise to the standard demanded of them, or, at least, make an earnest attempt to do so. If women looked for high ideals and spotless lives in men, and if they refused friendship to any men whose evil influence would be sure to sully the whiteness of their souls, the men would be helped to stand firm in the strength and beauty of untarnished, splendid manhood. The friendship which is begun on earth should be holy enough to live on in Heaven, and real friends will always help each other to climb. Beautiful souls inspire the world. It is well for us if we can say with King Arthur's knights :

One there was among us, ever moved Among us in white armour, Galahad.'

DORA FARNCOMB.

About Hope's Book.

We are indebted to Rev. Dyson Hague for the following appreciation of "The Vision of His Face," by Dora Farncombe, and published by the William Weld Company, Limited. "I have read with a great deal of pleasure 'The Vision of His Face,' by Miss Farncombe, a lady

do not give up hope. When the prodigal devotional writing. The book certainly gives you inspiring thoughts from the be-Canadian authors is increasing, and we congratulate Miss Farncomb upon her efforts."-London "Echo."

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The Ingle Nook

[Rules for correspondents in this and other Departments: (1) Kindly write on one side of paper only. (2) Always send name and address with communications. If pen-name is also given, the real name will not be published. (3) When enclosing a letter to be forwarded to anyone, place it in stamped envelope ready to be sent on.]

Canning Vegetables.

Dear Chatterers - I came on a little bulletin to-day which proved a very mine of information to me, so, of course, I must pass it on to you-at least, a condensation of it, for it is quite long. It is on "Canning Vegetables," a subject upon which, I fancy, the most of us have had vague ideas enough. This bulletin. however, written by Mr. J. F. Breazeale. of the Bureau of Chemistry, U. S. Department of Agriculture, makes everything so clear, that I, for one, feel now as though I could go right, at canning corn and peas and beans, with reasonable hopes of success.

After reading what he says, I believe the rest of you will feel so, too. You see the way has been well-prepared already by those papers on bacteria, for a thorough understanding of bacteria and the proper ways of fighting them is surely one of the very first essentials in successful canning.

The great secret of this art, as you know, lies in complete sterilization or killing of all germs of yeasts, molds and bacteria which may set up ferments or putrefactive work. Anything that is to "keep" must have all such germs killed by boiling (cold-storage is not, of course, considered in this connection), and not who is well-known in London for her only must the fruit or vegetables be



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But, after all, the beauty that is very dear to the heart of God, is not the treasured possession of a favored few only. It is within the reach of each of His children. The King's daughter must Le all-glorious "within," or she can never give lasting pleasure to anyone.

One Saturday evening last year I was girls, and I got started on the subject of "love." They at once began to giggle, as though that subject were a great joke, but I was in solemn cornest, as they soon discovered. If there is anything very unlovely in my eyes, it is to see young girls loud and noisy and familiar when they are with young men. And what can be more beautiful than a young girl. who is quiet and modest and gentle, not playing with the mysterious passion of we, but keeping her heart as a temple of purity, where God can dwell. I bebe young people in Settlement work, that non young people are rule and noisy



The Mowers : French Peasants. From a painting by Julien Dupre, 1812.

boiled, but also the jars, rims, tops, etc., terium left anywhere in contact with the substance canned, may, under favorable conditions, give rise to a family of 20 .-000,000 within the space of 24 hours. Finally, when sterilization has been complete, sealing must be done at once to prevent the entrance of the germs of molds, yeasts and bacteria which are sure to be floating about in the air. It will be seen, then, that unless sterilization is perfect, exclusion of air is of no benefit, and that, on the other hand, no matter how perfect sterilization may be, the air, with its floating microbes (the air itself does no harm), must be kept out.

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It is commonly known that vegetables are much more liable to spoil than fruit, hence comparatively few housekeepers attempt to can them. The reason for this greater spoiling tendency is that vegetables present a much better medium for the development of bacteria and their spores (some kinds reproduce themselves by spores or seeds) than does fruit. One boiling of from 10 minutes' to half an hour's duration, is usually sufficient for fruit, for one such boiling will kill all the bacteria. One such boiling will not, however, kill all the spores, and, although the latter are not likely to develop in fruit, they are almost sure to in vegetables. A sure way of keeping the latter has, however, been found out. How it is accomplished "'I will now relate," as the old rhyme-books say.

In the first place, it is necessary to have good jars. Mr. Breazeale is not much in favor of the common screw-top "Mason" jar for vegetables. He very much prefers a kind, retailing at about \$1.25 a dozen, with a rubber ring and a glass top, held in place by a wire spring, as shown in illustration. This kind, he says, is more to be depended upon for vegetables, and is even cheaper in the end, since the jars last longer. Widemouthed ones should, of course, be chosen for whole fruit or vegetables.

Now, being provided with jars and new rubbers, the next step is to make the boiler, which may be an ordinary tin wash-boiler, ready for use. In the bottom of it should be placed some sort of rack, or support for the jars. This may be made of strips of lath; even a layer of clean straw may do, but the best is a false bottom, made of wire netting, and placed on supports. Next pour about three inches of cold water in the boilersome put in enough to come up to the necks of the jars, but the other way is as good-and set the perfectly-clean jars (sterilized, if you like to be doubly sure) on to the rack. The vegetable may be raw, with cold water added to fill up to the top, or it may have been previously cooked; detailed description will be given below. Now put the rubber ring around the neck, and place the glass top on loosely, as shown in Fig. 2, but be careful not to press down the spring at the side of the jar. By leaving the top thus loose, danger of breakage by steam is avoided. Now put the top on the boiler, bring to a boil, and boil 1 hour, then remove the cover, press down the aprings, take the jars out, and let them cool until next day, when the same performance is repeated-be sure to loosen tops before boiling. On the third day, the operation is again repeated, and this time the spring is pressed down for good. Now, the reason for these three boilings, is as follows: After the first boiling. the bacteria are killed, but the spores remain. These speedily develop, and by the next day a fine crop of bacteria is ready to begin the work of putrefaction. The second boiling destroys these, but there is a chance that a few spores may still remain. These again develop, but the third boiling is usually sufficient to kill the last of them. Some canners just where her husband had taken up land, give one boiling, but boil continually for and had gone to build a house for them. five or six hours, but the method as given above is the one that is always employed in scientific work, and is much to be preferred. In closing, it may, perhaps, be said, that canning should always be carried on flammation of the lungs, and, lastly, the when other means fail. For example, I in a well swept and dusted room, in order that as few bacteria as possible may be floating about in the air-also that the hands and clothes of the worker about keeping the children, and it was the dustpan and handbrush. She did so. should be perfectly clean. The vegetables should be young and should be gathered was so ignorant and mexperienced to out of the window, and told her to take percale for a dress, and said they must

canning at once, they should be thrown ing well in homes of their own, and the had done many times. She sat at my they may be sterilized before filling.

To Can Corn.-Cut the kernels from the for flavoring, to each quart. Then proceed as above.

Beets .-- Can while young and tender. Boil until cooked, and skin before putting, in the jars. Fill up with water, or with water and vinegar slightly sweetened.



Squash and Pumpkin.-Cut into dice and proceed as for corn, or else boil and mash before filling. Boil, or steam, for 11 hours each day.

Peas.-Proceed as for corn. Asparagus.-Can the young tips only, in the same way as for corn.

Cauliflower, young carrots, and parsnips, may be cooked in pieces, seasoned with salt, and canned as above.

Tomatoes.-Keep best of all, and may be successfully canned in ordinary Mason jars, if great care is taken in sterilizing. May be canned just as fruit ordinarily is. Be sure to boil tops, to dip the rubber rings in boiling water repeatedly before adjusting, and be careful not to put the fingers on the inside of the top or on the inner edge of the rubber.

Succotash.-- A mixture of corn and beans, is difficult to keep. Boil 11 hours each time, instead of 1 hour.

Keep all canned vegetables in a cool, dark place, as light will spoil the color When opening the spring jar, run a thin knife-blade under the rubber, next to the jar, and press firmly. If it does not yield, place the jar in a deep saucepan of cold water, bring to a boil, and boil a few minutes. The jar will then open easily.

The above directions apply only to pint and quart jars. Half-gallon jars must le boiled longer.

Now, I hope any of you who try this method will have success. Mr. Breazeale says that success is sure to come unless something is done wrong or left undone. D. D.

cutting teeth.

to top, and add a teaspoonful of salt, under our care, some bright, cheerful, obliging fellows, a pleasure to have them; were disobliging, careless, disagreeable fellows, and a great trial of patience. One boy we had in our early married was very dirty, both with his clothes door. "Hang them up," I said. and person, and would get out of washing every time that he could, and then he would only half wash. One day when I sent him back to wash again, he said, "What's the use of bein' so particular; wait till the summer comes and I'll wash in the creek. I love to wash in the creek." This was midwinter, and I could not wait till the creek thawed. He would get into trouble, and, not liking to be scolded, would go off and come back again. At last he, went away, and we heard nothing from him for thirty years. Early this spring the bell rang, and when I opened the door, there stood a tall, well-dressed, grey-haired man. He did not speak, but looked at me intently for a time. At last he said. "You don't know me," and then he told his name. It was our bad boy back again. He had drifted out to Montana, had been married twenty years, was well off. His wife's home was near Montreal; they had come on a visit to her friends, and he had come to see us. How pleased he was to walk about the place, and how pleased and surprised he was to see the trees he had helped to plant, grown so big. Many things that we had forgotten. he remembered, and with tears in his eves



he thanked us for our kindness to him when he was a wilful, troublesome boy. Another of our "bad" boys whom we had not heard from for fourteen years, and Christmas presents, and I know they wrote from Westminster, B. C., thanking had just as much pleasure in getting us for our kindness to him when he was their little five- and ten-cent presents, as a "stupid, troublesome boy." These are now, the more-costly ones. When they just two cases. Never regret being kind got older, they had twenty-five cents a and patient "Cast the water, for thou shalt find it after many

FOUNDED 1866

for so great is the rapidity with which into cold water to keep them crisp. By poor, sickly, motherless habe, grew to be feet; never offered to move. I waited bacteria reproduce, that a single bac- this process of canning in the boiler, the a strong man, and has three boys of his some time and repeated the order, still cans are sterilized with the fruit, al- own; but our bright, strong, happy boy she did not move. At last I laid down though, to make assurance doubly sure, died, when seventeen months old, with my work and stood her on her feet. Yet she would not go. I reasoned with I had only one boy of our own to her, asked why she did not want to do young corn, fill the jars, pour in water bring up, but many other boys have come it, if she thought she ought not to hang them up; still she would not speak or move. Then I said, "If you don't go many are now in good positions. Others and hang them up I shall whip you." Still she did not move to do it. Then I took her hands and slapped them hard. At last she picked them up and ran and life was a particularly trying boy. He dashed them down beside the cupboard She would not. Just then the bell rang, and I had to go to the door. It was our minister. I showed him in, and asked to be excused for a few minutes, and went back to my rebel. "Hang them up," I said, and she took another hard whipping before she did so. "You're a naughty girl," I said, "go into the corner," and then I went to the caller. He was greatly concerned about the trouble. In a few moments she turned around and stretched out her arms and cried, "Mamma, mamma !" and ran to me. I took her on my lap, kissed and cuddled her up, and she soon went asleep. This was the first time she ever acted so, and I think if I had not conquered her then, there would have been more trouble. Only once again I whipped her. She took to ringing the front door bell. hut it got to be a stale and troublesome joke. I explained that it was not nice or kind to take me from my work. Sometimes my hands were in the flour, busy baking, and I had to wash to go to the door, only to see her stand laughing there. So I told her if she did it again I should whip her. Some time passed. One day two ladies called. They had a little girl who stayed out on the lawn with my little girl. We had just been seated and had begun to chat when the bell rang. When I went to the door I heard little feet running away, and went around the corner of the veranda, where the girls were laughing. "I told you I should whip you if you did this again, and I must do it." I took her hands and slapped them. She never did it again.

I always tried to act justly with them, and never deceived them. When they were old enough, each had their little work to do before they went to school. The youngest girl fed and cleaned the birds, the eldest filled and trimmed the lamps. The first job the boy did was to get the kindle wood, and as they grew older they had other things to do.

I allowed them ten cents a week for pocket-money. Of this, each had to give a cent for church, and one for Sunday School collections. This gave them money for anything they wanted for school, and they saved up for birthdays

On Child-training.

Dear Dame Durden,-After reading the article in "The Farmer's Advocate" of May 27th, "The Boy in Training," thought I would accept your invitation to write. I am laid aside from active work, with acute muscular rheumatism, and it will help me to forget my discomfort while I write.

I have only had five children. Three lived to manhood and womanhood, but when my eldest boy, a strong, active fellow, was fourteen months old, a most trying time for a young mother, for you cannot imagine what mischief they will be into, my husband's sister came to pay us a visit before going to Muskoka-There was delay upon delay in starting them. One of the children-she had drowned. Another had a gathering in

Now, as to the training of my own children : I have sought for grace and wisdom to act justly and lovingly with them, and taught them to regard each other's rights and things, never to take or horrow anything without asking and returning it again. When they were quite young an old minister was billeted with us, and, in talking with me, he said : "In mercy to your children, make them obedient." I never forgot it, and, shortly after I read in the Montreal Wit ness an article, "Rule with Diligence. It said, so much discomfort in homes and wrongs to the children, were caused by the parents giving orders and never seeing that they were carried out. This caused endless scoldings and naggings If you give an order to your child, that it can do and ought to do, see that it obeys, and promptly. This greatly infour-fell into the creek and was nearly fluenced me in dealing with the children. Your first question, "Do you believe in the ear. Then the second boy had in- whipping disobedient children?" Yes; mother took ill with bronchitis, and died, was sitting sewing one afternoon; my leaving four children, the youngest a little daughter had eaten a cake and made puny, sickly babe. I never hesitated some crumbs. I told her to go and get not the clothing and feeding them, but I l swept the crumbs up and threw them

and when the girls left school



each had two dollars a week to buy their clothes, and this enabled them to dress neatly, and as well as any girls in our neighborhood. They have good underclothes, but they make all their own clothes but their coats, and a good plain coat will last two or three years.

My youngest daughter was only thirteen when she made her first dress. I had been away, and brought them some pretty should be young and should be gathered, was so ignorant, and inexperienced to use of the bandon, and ton her to cave percale for a dress, and said they must early in the morning, while the dew is have the care and training of those chil- the pan and brush and hang them up make them. I showed her how to cut on. If impossible to set at the work of dren. It is all over. They are all do- again. It was what she could do, and them out. I heard her telling not long:

DED 1866

sat at my I waited order, still laid down n her feet. asoned with want to do ot to hang t speak or u don't go whip you.' it. Then them hard. nd ran and e cuphoard said. She bell rang, It was n in, and w minutes, "Hang ok another o. "You're into the the caller. about the she turned arms and nd ran to kissed and ent asleep. ever acted conquered been more hipp<mark>ed</mark> her. door bell roublesome s not nice my work the flour ash to go and laughshe did it Some time es called yed out on We had n to chat ent to the away, and e veranda, "I told did this took her never did

with them, When they heir little to school eaned the mmed the did was as they gs to do week for ad to give r Sunday ve them anted for birthdays cnow they n getting esents. a When they e cents a

J(LY 1, 1909

in wrong, and had to take them out; but she was praised for it when it was done. I always remember them on their birthdays and at Christmas with something extra, and after housecleaning I get them something, one year a waterproof each, another year tweed to make shirtwaist suits, etc., and now my baby girl is away, and getting \$400 a year and board, so she sends us presents home. I tried to teach them, as far as I was able, how to spend money. I think children, when old enough, ought to have their own money to get or give anything they want to, without asking for every cent, and telling what they want it for. It might be some little gift to a friend, and to have to explain it all, is like pulling a rose to pieces to find were the

scent is. Question 2. It is very wrong and cruel to frighten a child with "the dark," "doctor" or "teacher"; they ought to be taught that they are friends. Our doctor once said to me, "What a wicked thing to frighten a poor child with the doc-When he was sent for their temtor !' perature would go up, and their hearts beat, so that it was hard to find out the real condition. There is something decidedly wrong with the parents when they have to resort to such methods to enforce obedience. A few days ago, my husband was dining at an hotel, and a well-dressed man and woman, with a boy about three years old, were dining, too. He did not hear what the man said to the boy, but the boy, in a clear, ringing voice, said to his father, "You shut up!" They seemed to think it cute and smart, but I think there is trouble ahead for both parents and child.

I have heard Dr. Gilmore, Warden of the Central Prison, say that the young men that drift into jail are those who have had no parental control, and have never been taught self-control, respect, or obedience. It is a grand thing for a child to love and trust its parents, but this cannot be unless the parents act in a way to inspire love and respect. Don't make playthings, but playmates, of your children. Don't treat them as inferiors, but as junior members of the firm. A horse that has been well-trained and is reliable, is very valuable. A child is worth more than a horse. One of our ministers defined "love" as "helpfulness." Give the little ones a loving, happy childhood; but in mercy to them, make them respectful and obedient.

York Co., Ont. HELPONABIT. Welcome back, Helponabit. I hope your letter will inspire others to throw out what help they can on this most important subject.

A Prospective Normalite.

Dear Dame Durden,-I enjoy reading your section of the paper very much, and, having noticed a week or two ago what a kind interest you took in a Normalite, thought perhaps you would give me

THE FARMER'S ADVOCATE.

made so many mistakes, put the sleeves cream silk or net waist, which will come dusty feeds should be given near milking- sugar, and bake in a moderate oven. in well should you want to go to the theatre. For a coat, you can make one separate coat, with, possibly, a raincoat, answer all purposes. No doubt many of the girls will have suits, and a suit is a very acceptable adjunct, if money is no object. As regards hats, one of the coarse straw, droopy sailors, if becoming, will do finely for school and general wear, with a more dressy hat (simple, not elaborate) for special times. In winter, some of the girls make one ready-to-wear do throughout, while some of the younger ones last winter wore toboggan caps for schoo!

> Now, I think the above list covers most of the essentials. Of course, you will need some pretty neckwear. The Dutch collars and jabots, now so fashionable, brighten up a plain shirtwaist suit wonderfully, as do also the ever-fashionable turndown collars of embroidered linen, with a bow or "string" tie. If you use frilling, buy net and pleat it to a band. By basting the pleats down you can wash such frilling very well, and so accomplish quite a saving in that way.

Answers to Questions on Bacteria.

(Concluded.)

6. Why is it advisable to leave the salt out of bread-sponge as long as possible in cold weather, but to put it in as early as possible in hot weather?

In answer to this question, several write that they have always been considered good breadmakers, but that they invariably put the salt in when setting the bread, summer or winter. Other answers are as follows

"I have asked Grandma, who learned to bake in Canada 70 years ago, also a neighbor, and I have read up all I can find-I have a dictionary of Wants, an English book-and no one could tell me more than that they put the salt in when mixing the bread firm.'

"In making bread, we are making use of one kind of bacteria. The salt tends to check their growth, and we know they will get check enough in cold weather, but in hot weather they are apt to develop too quickly and cause sour bread, so the salt is put in early to prevent

"Salt hinders the yeast plant from working so quickly. Yeast does not rise as well in cold weather, therefore the salt is better left out as long as possible. In hot weather, it rises so quickly that the bread is apt to be sour, therefore the salt should be put in at once." "This is a new idea to me-but, no doubt, the salt is rather hurtful to the yeast microbe, and in the winter time it is very necessary to encourage the rising of the yeast as much as possible, while in

The milker should be cleanly time. dressed, and the hands well washed before beginning. The pails and can should have been well washed, thoroughly scalded, and exposed to the air and sun. After separating (which should be done as soon as possible), the cream should be cooled by setting the can in cold water. It should then be closely covered, until wanted."

"In order that as few pernicious bacteria as possible may be in the milk, first the stable must be clean before the cows are driven into it. Have plenty of fresh, clean straw strewn about. Let all the dust from that process, and the feeding process, settle. Brush down the cows, especially all loose hairs and dust about the udder. Wash the teats with lukewarm water, and if you have the cloth for putting over the udder, with the necessary openings made in it, tie it around the cow before milking her. There is no surer way of keeping out all dirt that may fall off the cow.

"Have the milk pails clean, well scalded, and sunned, if possible, likewise all parts of the separator that the milk passes through. When you have mulked a pail of milk, send immediately to the separator room. Regulate the time of starting the separator according to quantity of milk you get. Separate as soon

as possible. "The practice of using a little vaseline on the hands when milking is superior to either "wet" or "dry" milking, as it prevents dust from falling, and there is no danger of the filthy "drip." It seems to irritate cows when milked "dry." But by all means use dry hands, if you have not mastered the art of using no more moisture than is needed, or use vaseline and be sure. Under no circumstances dip the finger into the pail to dampen. Milk out a little of the first milk as waste milk. It is generally pretty "blue." You will not suffer much loss in butter, and a few bacteria may have made their way up the opening."

Possibly one or two more papers on 'Bacteria'' will be published in the early future; indeed, out of so many good ones, we scarcely know where to stop. Several others will be held over until needed D. D. again.

Recipes.

Individual strawberry shortcakes are pretty, as well as appetizing. To make them, sift together 3 times 11 cups pastry flour, 1 cup cornstarch, a level teaspoon salt, and five level teaspoons baking powder. Work in 1 cup shortening, then add, a little at a time, and mixing with a knife, 1 cup milk. Roll lightly into a sheet, and cut into biscuits. When done, split the cakes, butter, and fill with crushed berries and summer it is inclined to rise too fast, sugar. Put on individual plates, with and sour. 'Down South,' they use com- whole berries around each cake, and paratively little yeast-bread, as it is so whipped cream on top, or dredge the top sugar and serve with a pitcher of

ago how she cried making that dress, she of these-and, if you can afford it, a of sunshine and fresh air admitted. No a smooth round. Dredge with granulated

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A Nice Filling for Cream Puffs,-Beat 2 eggs and 2 cup sugar until light, and stir into 1 pint boiling milk. When thick, remove from the stove, cool, and flavor with 1 teaspoon vanilla.

Summer Salad .- First make the dressing as follows: Rub yolks of 2 hardhoiled eggs to a powder, and add to it 1 teaspoon sugar, 1 teaspoon made mustard, pepper and salt to taste, and 1 tablespoon salad oil, or melted butter. Let it stand 5 minutes, then beat in 1 cup vinegar. Now cut fine 2 heads lettuce (hearts only), 3 tender radishes, and a small cucumber. Arrange the chopped mixture on the larger lettuce leaves, and pour the dressing over.

Our Scrap Bag.

Now that carpets are no longer in fashion, many people are having their carpets made over into rugs. All that is necessary is to make the carpet smaller and sew all around the square or oblong thus left, a carpet border to match. The left-over strips can then be made into small rugs for bedrooms and halls, with fringe sewn along each end.

A new way to make a rose - jar is as follows: Take the petals off as soon as possible after the flowers are open (you are supposed to have roses "to spare," of course), place them in a basket, and hang in the shade in the fresh air, so that the petals will dry. When they are perfectly dry, so as to leave no danger of moulding, to every quart of petals add the following mixture : A few sprigs of lavender or 2 drops oil of lavender, a drop of bergamot and 3 drops attar of rose. A little heliotrope sachet powder may also be added. Keep in a tightly-closed rose jar, which is only opened occasionally, when an extra - agreeable atmosphere is desired.

To gather goods without a ruffler : If the stitch of the machine is lengthened, and a loose tension used, a row of stitching can be run where the gathering is desired, and the thread pulled until the goods has the desired fullness.

Does My Hat Annoy You?

That question makes me mad. The woman who asks it wears a twelve-inchhigh tub inverted on top of her head. To the bottom of the tub she has fastened a flower-bed and the mutilated fragments of an aviary, the two together elevating the structure about six inches higher. It measures four feet across and twelve feet around. It is the across that I mind, and the up and down. It is a woman of average height, but

Pelion on Ossa could not look over her with that thing on her head. "Does my hat annoy you ?"

O, no, madam; not at all ! Not in the least little bit of a mite ! To be sure,

heir own ood plain

ne pretty ney must V to cut not long

few instructions upon that subject. I hope to attend Normal School next fall, and, as you know, clothes are the important feature when one is to be away from home for a year. Please give me an account of the amount of these required. Does one have to take summer clothes, and how many? About the middle of September is the opening of the Normal. As regards hats, also, I should like a few hints.

Wellington Co., Ont.

You will not need a great many clothes, as comparatively few of the girls, either at Normal or at the Macdonald Institute, try to make a great sensation in the fashionable world-and very sensible they are-but what you have should be well-made and suitable. For hot-weather school wear, I should think one neat print or foulardine shirtwaist suit, a good, dark skirt (sicilian or lustre are the most serviceable materials you can choose). and three or four light shirtwaists of vesting and French cambric (a sort of fine print, in light colors, that "boils") would be quite sufficient. When winter comes, a dark shirtwaist suit, with, perhaps, a shantung silk waist of the same shade to wear for a change, will put you through. Then, for more dressy wear, you will need one pretty "stuff" dressvoile, or panama, which will do for cool days in summer, and for winter also; a days in summer, and for winter also, a should have called. The walls be quite stiff. Drop from a spoon on a pretty, light mull or muslin, for parties should be frequently cleaned. The walls be quite stiff. Drop from a spoon on a or receptions-there are sure to be some

liable to go SOUL

"In order to give the yeast germs plain cream. abundance of chance to work, the salt is added last in winter, but in warm weather, the temperature is favorable to the reproduction of germs, so the salt is added sooner to prevent their multiplying too fast.

"In cold weather it is necessary to keep salt out of bread sponge as long as possible so as to hasten the growth of bacteria. We know that salt retards their growth, so does the cold, therefore leave it as long as possible so that sponge will rise. On the other hand, in summer we know that heat is favorable to growth of bacteria, therefore put salt in as soon as possible to retard too rapid development of bacteria, and consequent souring of the bread.'

Describe the process of caring for milk, from the time the cow is driven into the stable, until the milk is separated, in order that as few pernicious bacteria as possible may be in the milk. "The one great thing in caring for milk is cleanliness. The milk in the healthy cow's udder is practically germless. we should keep it as far as possible from coming into contact with anything except clean dishes and pure air. The cows should be brushed every day, and the udder and lower parts wiped off with a damp cloth before milking. The stable Mix in the usual manner, stirring the should have cement floors. The gutters soda into the cream. The mixture will

Raspberries may be used when in.

Potato Salad.-To 2 cups cold hoiled potatoes, cut in small cubes, add the chopped white and crumbled yolk of a hard-boiled egg, ½ teaspoon salt, 2 level tablespoons mustard pickle chopped fine, 4 olives chopped fine if you have them, a little fresh parsley minced, also 2 slices onion minced. Mix the whole with ordinary salad dressing, or with 4 tablespoons olive oil and 2 of vinegar. Cover closely, and keep cool until time of serving

Cheese-and-nut Sandwich Filling .- Beat 1 cup butter to a cream. Beat in 1 cup grated cheese, 1 teaspoon of paprika, and 1 cup walnut meats sliced fine. Paprika is a sort of pepper, red in color, but much milder than cayenne. It is more wholesome than black pepper, and looks very much prettier.

Sour Cream Biscuit .- To each cup of cream, milk, or buttermilk, beat in 1/2 a level teaspoonful of soda, then use as sweet milk, reducing the quantity of baking powder a little. With cream, use but little shortening.

Drop Cookies with Sour Cream.-1 cup butter, 1 cup sugar, 1 egg well beaten, 1/2 cup sour cream, 1 teaspoon soda, 21 cups flour, 31 level teaspoons baking powder. should be whitewashed, and an abundance buttered pan, shaping each portion into

I am a trifle aggrieved at the scantiness of it. If you would only pile on ten more yards of ribbon and a peck of flowers and the loot of three barn-yards, I should have a more generous prospect. But you will do better next month, doubtless. Oh, no ! your hat does not annoy me in the least !-- Arrow, in C. E. World.

The Secret.

It isn't in doing your work, my boy, It isn't in doing the thing you must,

That you win the honor and gain the joy,

Or claim the profit or earn the trust, It isn't in laboring long and late,

And it isn't the hurry and noise that tell :

The smallest thing that you do is great, If you do it well.

It isn't in getting it done, my boy,

It isn't in getting it out of the way; It is not in the methods you may employ,

And it's not in the price that your masters pay;

It isn't in squandering precious time,

And it isn't in rushing ahead pell-mell; If the thing that you do is to be sublime

You must do it well.

-S. E. Kiser, in Chicago Record-Herald.

which to fill order, and where two numbers appear, as for waist and skirt, enclose ten cents for each number. If only one number appears, ten cents will be

> $Address: {}^{cr}Fashion {}^{-}Department, {}^{cr}{}^{-}{}^{cr}The$ Farmer's Advocate," London, Ont.

The Roundabout Club

Our Literary Society.

Rabbi Ben Ezra.

STUDY V.-Continued.

Question 5. (Give meaning of Stanzas XXVI., XXXII.)

The poet, still continuing the metaphor of the 'Potter's Wheel,' goes on to show the folly of those who feast and enjoy life to-day, believing that the past is gone forever and that we have the present only for enjoyment. He goes on to show that every moment of life, past and present, go to form the character and decide the destiny of the soul. We have been created for a definite purpose, and the Creator has planned the process. by which we may be fitted for that purpose. It is well for us, then, if we can steadfastly look upward to the great object of our existence, and not downward to the process itself. Age having come, we can see that all has been planned aright, and can confidently trust the Creator to complete the work as planned, knowing that it shall be perfect.

The meaning conveyed in these concluding stanzas is so beautifully wrapped in metaphor, it is difficult to disentangle it. As if Fatalism, that refuge of weak characters, was suggested; or Atheism advanced, or Doubt in the Future admitted, or even the precious truths of soul existence and development held in ridicule; the poet, who delighted to penetrate into the inner life of men, to study the soul from whence the action came is on fire with indignation, argument and proof.

'The climax of thought is reached here. He positively asserts that charimportant and precious possession. Its growth and development is the only thing really worth while. Had we the 'broader vision' we would see that those things for and against which we struggle so earnestly have no intrinsic importance, but that they are made to seem im-portant, so that we develop and strengthen the soul in our eager pursuit

" There is recognition of God's will expressed, also willing and glad submission, and above all perfect confidence and

was meant by this question seems to familiar with his poems, being of the sted. We really asked for y having studied it. Many gave a synopsis of the whole poem. We have made no difference in the scale of marking : preciate a deep, abstruse poem, as I have in the study of 'Rabbi Ben Ezra.' I have been impressed different times during this study with the value of this abstruse feature. The study and severe thinking that is necessary to 'dig' out sessed of wondrous value to the person has its meaning all lying on the surface. thought in such literature. With a lightings usually suffices to appropriate all

of old age, and he reflects and moralizes upon the vanities of this world, and having done so, he proceeds to give the rising generation of youth the benefit of his experience and meditation. He advises placing the material things of this life in their proper relation to the interests of eternity. He advises youth not to despise material things; but, on the other hand, not to place too great value upon them, but to recognize them as steppingstones to a higher life, as aids to the building of character that is to stand the test of eternity. Above all things, amid the distractions of this life, we are to keep our faith in God pure and undefiled. as the Supreme Overseer of the uni-

The writer of the above made remarkable progress. Beginning among the "mediums" he succeeded in taking almost full marks on the last paper.-Ed.]

ical masterpiece. Van Dyke tells us that Browning teaches us the courage of faith in God. In no other poem does he teach it so well as in this. It was written under circumstances that would have bowed any heart but his during the anguish of seeing his loved wife's approaching death. Yet he never faltered or questioned the goodness of God. His pression in 'Rabbi Ben Ezra' and Prospice.' This faith is the more of thought that occurred during the early Victorian era. Unrest and doubt were in the air. All his great contemporaries

most happy in its presentment of the rest, peace and clear-seeing wisdom of age. It shows us the folly of superficial judgment-the only judgment we are capable of, since God alone knows the heart

counts that one of God's good gifts.

" It points forward to a strange new -on which the soul enters 'fearless and unperplexed' on 'adventures brave and

to be given in this answer. My most imphatic impression is that I intend to have a copy of 'Browning' as soon as possible. I began the studies quite unFOUNDED 1866

"The Farmer's Advocate" age. Allow from one to two weeks in things. The Rabbi, through whom because the poet speaks as if he knew Browning speaks, is looking upon life 'whereof he spake,' when he says ' the from the vantage ground of old age. He best is yet to be.' The note of confisees the multitude of his fellow men dent assurance sounds throughout the struggling and toiling through life. He whole poem, and inspires one with faith sees the frivolities, the conceits, the am- in the writer. Second, because life is bitions of youth. He sees the serious forever. It is not confined to the nartoiling and struggling of men in the row limits of our earthly pilgrimage prime of life. He sees the vain regrets We may attempt great things, knowing surely that we will have time to complete them. 'Man has forever.' Third, we have nothing to discourage us. Our doubts and fears but prove that we belong to a higher order than the brute creation. Our struggles and difficulties but strengthen us and help the soul in its growth beyond the 'developed brute' to the 'God in the germ.' Fourth, our imperfect efforts after what is high and noble are seen and appreciated by God. He judges not by what we attain, but by what we strive to attain. Fifth, though the journey of life may offtimes be rough and toilsome, yet we are being led by God. He will not leave us, and in the end will take the work which we have tried to do and make it perfect, and He will lead us into a grander, fuller life Thus life will be 'perfected by death.' '

whole, is that it is a very, very difficult one to fathom, and one that has needed far more time and ability than I have been able to put on its study.

The poem uniformly teaches the lesson (which is sadly needed) that the last days of man's life should be looked forward to as his best, not as a burden that must be borne. Just as a person rejoices more at the completion of a home than he does when the preliminary excavations are being made, so man's closing years should be passed in thankful reminiscence and hopeful anticipation

After reading and studying 'Rabbi Ben Ezra,' how one feels the grandeur and hopefulness of life infinitely more than after perusing lines like the follow-

- 'We are no other than a moving row
- In midnight by the Master of the
- Upon the Chequer-board of Nights and
- Hither and thither moves, and checks, And, one by one, back in the closet

ly our students, will be interested, as we have been, we are publishing a number of answers to this last question. Three remain, but will appear, if possible, in



1082

DESIGN BY MAY MANTON 6357 Pinafore Bodice with Fitted Guimpe. 6157 Three-Piece Skirt

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6335 Child's Dress, 4 to 8 years. Embroidery Pattern. 408.



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1. 1. 1.

subscriber at the very low price of ten cents per pattern. Be careful to give whatever it may be. When Waist

did search out the meaning there was not much there. This poem is repletwritings are more appropriate for 'warning. profit. and instruction,' and there is no serious difficulty in comprehending it not as a tangled and knotted thread,

large, rather expensive book, which

The New Learning.

They taught him how to hemstitch, and they taught him how to sing,

And how to make a basket out of

And how to fold a paper so he wouldn't

And how to sketch a horsie in a little

What 'twas they did to make his son so

ED 1866

í he knew says 'the e of contishout the with faith se life is the naroilgrimage , knowing e to com-.' Third, at we bethe brute difficulties ne soul in ped brute' ourth, our high and ing and by God. in, but by th, though s be rough ig led by ind in the we have t, and He fuller life. death.' ''

em, as a ey difficult nas needed n I have

s the lest the last boked fora burden a person ion of a reliminary so man's in thankng 'Rabbi grandeur he follow-

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JILY 1, 1909

John Armstrong's Last Good-night.

(Old Ballad.) Is there never a man in all Scotland, From the highest state to the lowest

degree

king ? Scotland is so full of their traitery.

Yes, there is a man in Westmerland, And John Armstrong some do him call; He has no lands nor rents coming in. Yet he keeps eightscore men within his hall.

He has horse and harness for them all. And goodly steeds that be milk-white, With their goodly belts about their necks. With hats and feathers all alike.

The king he writ a lovely letter. With his own hand so tenderly. And has sent it unto John Armstrong. To come and speak with him speedily

When John he looked the letter upon. Then, Lord ! he was as blithe as a bird in a tree

I was never before no king in my life. My father, my grandfather, nor none of us three.

But seeing we must go before the king. Lord ! we will go most valiantly You shall every one have a velvet coat, Laid down with golden laces three.

And you shall every one have a scarlet cloak,

Laid down with silver laces five. With your golden belts about your necks. With hats and brave feathers all alike."

But when John he went from Guiltknock

- The wind it blew hard, and full sore it
- Now fare you well, brave Guiltknock
- I fear I shall never see thee again."
- Now John he is to Edenborough gone, And his eightscore men so gallantly, And every one of them on a milk-white
- With their bucklers and swords hanging down to the knee.
- But when John he came the king before, With his eightscore men so gallant to
- The king he moved his bonnet to nim ; He thought he had been a king as well as he.
- "O pardon, pardon, my sovereign liege, Pardon for my eightscore men and me ! For my name it is John Armstrong, And a subject of yours, my liege," said

he

Said John, "Fight on, my merry men

THE FARMER'S ADVOCATE

N of the Company

I am a little hurt, but I àm not slain; I will lay me down for to bleed a while, Then I'll rise and fight with you again."

That can shew himself now before the Then they fought on like mad men all, Till many a man lay dead on the

> For they were resolved, before they would yield,

That every man would there be slain.

So there they fought courageously, 'Till most of them lay dead there and

But little Musgrave, that was his footpage

With his bonny grisel got away untain.

But when he came up to Guiltknock Hall, The lady spyed him presently What news, what news, thou little foot-

page ? What news from thy master and his

'My news is bad, lady," he said.

"Which I do bring, as you may see; My Master, John Armstrong, he is slain, And all his gallant company

'Yet thou art welcome home, my bonny grisel

Full off thou hast fed at the corn and But now thou shalt be fed with bread

and wine,

And thy sides shall be spurred no

O then bespoke his little son.

As he was set on his nurse's knee 'If ever I live for to be a man. My father's blood revenged shall be."

Let Something Good Be Said.'

James Whitcomb Riley said :

- When over the fair fame of friend or
- The shadow of disgrace shall fall -

Of words of blame or proof of thus and

Let something good be said.

'Forget not that no fellow-being yet May fall so low but love may lift his head.

Even the cheek of shame with tears is wet

If something good be said.

- "' No generous heart may vainly turn aside,
- In ways of sympathy-no soul so dead But may awaken strong and glorified If something good be said.
- "And so I charge ye by the thorny



The only nourishment that bread affords is that which the flour contains.

Bread baking is merely putting flour in appetizing form.

Flour making is merely putting wheat in shape for bread making.

Royal Household Flour

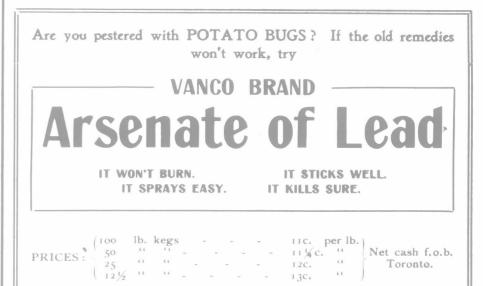
is made from carefully selected Manitoba Hard spring wheat. Every pound is almost a pound of food; clean, and nutritious.

It goes farther, does better baking and

is more satisfactory in every way than any other flour. Ask your grocer. 12



Ogilvie Flour Mills Co., Limited, Montreal.



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ng.

itch, and g, out of

wouldn't

Away with thee, thou false traitor ! No pardon I will grant to thee, But, to-morrow before eight of the clock. I will hang thy eightscore men and

() how John looked over his left shoulder ! And to his merry men thus said he: I have asked grace of a graceless face, No pardon here is for you nor me."

Then John pulled out a nut-brown sword, And it was made of mettle so free; Had not the king moved his foot as he

John had taken his head from his body.

Come, follow me, my merry men all, We will scorn one foot away to fly; It never shall be said we were hung like dogs ;

No. we'll fight it out most manfully.'

- Then they fought on like champions
- For their hearts were sturdy, stout,
- 1111 they had killed all the king's good guard ;
- There was none left alive but only

but then rise up all Edenborough. They rise up by thousands three Then a cowardly Scot came John behind, And run him thorow the fair body.

And by the cross on which the Saviour

And by your own soul's hope of fair renown Let something good be said."

The Oak.

Live thy Life, Young and old Like yon oak, Bright in spring, Living gold;

Summer-rich Then; and then Autumn-changed, Gold again.

All his leaves Fallen at length Look, he stands, Trunk and bough Naked strength.

A young artist recently gave his wife her first peep at a picture he had been working on for a wealthy patron. "Why, dear, it's lovely," murmured the better half-"lovely ! But I think those sheep look-well, just a trifle too much like clouds-that is, of course, dear-er-unless they are clouds !"

Toronto. Use two or three pounds to forty imperial gallons water. MADE IN CANADA ONLY BY CHEMICAL LABORATORIES, LIMITED Manufacturing Chemists 148-158 Van Horne St. TORONTO, ONT. **Heavy Galvanized Steel** Stock Watering Trough Capacity or standard size, about 10 imperial gallons to the foot. Other sizes made to order. Lengths 6, 7, 8, 10 and 12 feet with-out a seam; no rivets to rust out; the end is fastened by our patented device. No trough to compare with this on the market. Manufactured by

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If your dealer does not handle our goods, please send direct to us for any information you may require.



It Takes Courage.

To live according to your convictions. Not to bend the knee to popular prejudice.

To refuse to make a living in a questionable vocation.

To 'say "No" squarely when those around you say "Yes."

To be what you are, and not pretend to be what you are not.

To refuse to knuckle and bend the knee to the wealthy, even though poor.

To remain in honest poverty while others grow rich by questionable methods. To speak the truth when, by a little prevarication, you can get some great advantage.

The Girl I Left Behind Me.

"The Girl I Left Behind Me" is of indisputable Hibernian origin, though the exact date of its composition is not certain; but Arthur O'Neil, the celebrated harper, informed Bunting, the greatest authority on Ireland's ancient music that we have, that it had been taught him when he was little more than a child (he was born in 1730), by Owen Keenan, who had had it from a previous harper. O'Neil died in 1815, at the age of eightyfive. As the British army has been largely composed of Irishmen, especially in the foot regiments, ever since the days of Elizabeth, it is conceivable that the musical men of Erin brought the tune into the English bands as a sort of heirloom of their native land, "The Girl I Left Behind Me," according to military tradition, became the parting tune of the British Army and Navy about the middle of the eighteenth century. The air of "The Girl I Left Behind Me" was appropriated by Moore for his pretty ballad, "As Slow Our Ships. The tune, since it first became popular, has been played for nearly two centuries as a "loath to depart" when a man-ofwar weighs anchor, and when a regiment quits the town in which it has been quartered, consequently it has been carried wherever British soldiers and British mariners go. I give the two first stanzas of the Irish version of the song, as sung in camp and on the battlefield. though, of course, it is not the lyric that was first done in Ireland-that

Her letters oft remind me, That I promised never to gainsay The girl I left behind me.

In one of the regiments quartered in the south of England a century and a half ago, there was an Irish bandmaster who had the not uncommon peculiarity with the sons of Erin of being able to fall in love in ten minutes with any attractive girl he might chance to meet. It never hurt him much, however, for he fell out again as readily as he fell in, and so acquired a new sweetheart in every town the regiment passed through. Whenever the troops were leaving the place where he had a sweetheart, he ordered the band to play "The Girl I Left Rohind Mo !! which indicated, was an old Irish melody. The story of his accommodating heart soon spread through the army, and other bandmasters, at the request of the officers and soldiers, began to use the tune as a parting melody, and by the end of the eighteenth century it was accounted disrespectful to the ladies of the garrison and the town to march away without playing "The Girl I Left Behind Me," and in this wise it became a stock piece in the repertoire of every British band throughout the wide world.-T. P.'s.

Breaking it to Him Gently

An army captain, on returning home from India, brought with him a goodly stock of souvenirs. Among them was a pair of laughing jackasses, which he entrusted to one of the sailors, Tom Pinch. Alas, the unaccustomed shipboard life did not agree with the creatures, and in spite of all Tom's care they pined, and finally died. When he discovered the catastrophe Tom was in despair. "I say, Jim," he called to a comrade, "''ere's a nice thing. I daren't tell the captain." "Don't shirk it mate," was Jim's advice. "Break it to him gently. You'll find it'll be all right." The advice seemed good, and Tom sought the gallant captain. ''Scuse me, sir,'' he said. '' You know them things below-what you call larfin' jackasses ?'' "Yes." "Well, sir, they ain't got noffin' to laugh at this morning."

To live honestly within your means, and not dishonestly upon the means of others.

To stand firmly erect while others are bowing and fawning for praise and power. To refuse to do a thing which you think is wrong, because it is customary and done in trade.

When mortified and embarrassed by humiliating disaster, to seek in the wreck or ruin the elements of future conquest. To face slander and lies, and to carry yourself with cheerfulness, grace and dignity for years before the lie can be corrected.

To do your duty in silence, obscurity and poverty, while others about you prosper through neglecting or violating sacred obligations

To be talked about, and yet remain silent when a word would justify you in the eyes of others, but which you cannot speak without mury to another.

For throw up a position with a good salary when it is the only business you know and you have a facely depending upon your became at dress of have your other at field approximation of large s

A steel is told of a near ter who, when bearineby work was hered to remark (2) must give if kp⁽¹⁾. I must give if up (2) "Give up what 2" he was asked, "golfing", "No," he replied, " the minjetry." The dames of France are fond and free, And Flemish lips are willing, And soft the maids of Italy. And Spanish eyes are thrilling. Still, though I bask beneath their smile. Their charms all fail to bind me. And my heart falls back to Erin's Isle, I o the girl I left behind me.

For she's as fair as Shannon's side, And purer than its water, But she refused to be my bride, Though many a year I sought her. Yet since to France 1 sailed away

Begin It.

Lose this day loitering, 'twill be the same story

To-morrow, and the next more dilatory; True indecision brings its own delays, And days are lost, lamenting over days. Are you in earnest? Seize the very minute:

- What you can do, or think you can, begin it;
- Boldness has genius, power, and magic in it.
- Only begin it, and the mind grows heated;
- Begin it, and the work will be completed. —Goethe.

Teacher asked her scholars for some very long sentences. One boy wrote "Imprisonment for life."--Driftwood. "Tommy," said a young lady visitor at his home. "why not come to our Sabbath school? Several of your little friends joined us lately."

Tommy hesitated a moment, then suddenly he exclaimed, "Does a red-headed kid by the name of Jimmy Brown go to your school?"

"Yes, indeed," replied the new teacher.

"Well, then," said Tommy, with an air of interest, "I'll be there next Sunday, you bet. I've been layin' for that kid for three weeks and never knew where to find him."

TOO DEAD FOR A FUNERAL.

Billy Martin, aged four, came to his mother, and, in great ecstasy, exclaimed: "Oh, mother ! Louise and Carberry found such a nice dead cat, and they are going to have a funeral, and can I go?" Permission was given, and when Billy returned he was questioned as to the outcome of the funeral. "They did not have it at all." "And why not?" "Mother." was the answer, "the cat was too dead." ED 1866

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Gently

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ning home a goodly hem was a which he lors, Tom med shipthe creas care they en he diswas in called to a shirk it

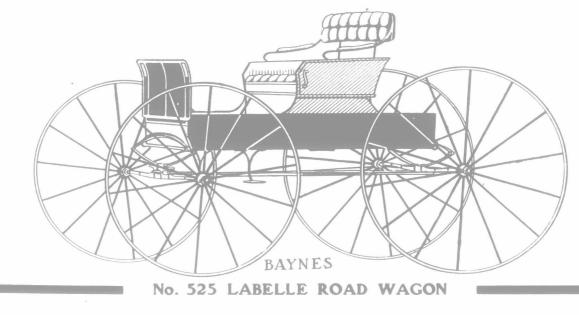
JELY 1, 1909

The Odor of Sanctity.

A singular article has appeared in the French paper "La Nature." The writer is discussing the question-an odd one enough-as to whether the English have a "national odor" by which they may be recognized. He goes on to state that, however it may be with "our neighbors on the other side of the Channel," there are certainly "color odors" strongly perceptible when two different races come into contact. White men find Chinese and negroes unpleasant companions, while negroes and Chinese say that Europeans have "an odor of death." And then the author of the article refers briefly to the traditions which ascribe delightful odors to the saints, and I am reminded that the phrase at the head of this column now a mere metaphor, was once taken in its literal sense.

The association of sanctity with sweet savors is an early one. St. John speaks of the golden vials full of odors, which he saw in his vision, as symbolizing the prayers of the saints; and when St. Polycarp, the disciple of St. John, was martyred, the Christians present perceived an odor as of incense to rise from his body as it was consumed in the flames. Λ similar odor was perceived at the natural decease of an early French saint; and, again, in the (eleventh century) life of St. David, we are told that on the death of the saint the whole city was filled with celestial odors. Indeed, in some of the Welsh legends these mystic savors have lost all connection with death; there is one story which tells how certain holy men succeeded in finding that Blessed Isle "beyond the waves of the ocean" which so many of the hermits and monks of Celtdom sought in early ages. And when these saints returned from the Isle, all their garments were sweet-scented-they diffused "rare odors

But there is one very late story which connects, not perhaps sanctity, but extreme innocence and goodness, with a mysterious fragrance. When the Princesse de Lamballe was most brutally murdered by the Republicans, the whole square was said to be filled with the scent of roses; and so far as I know this is the latest recorded instance of the kind Of course, there is one very simple way of dealing with these stories and that is to say that they are a pack of ties, or, at the best, olfactory halluci-Personally, I should not care to take that easy course. When you have once abandoned the reason of pure mathematics, it is dangerous and unpossible; and then it seems to me that, in spite of many doubts and confusions and impostures, a remarkable truth is gradually emerging. This is, that the channels of sense may be, and are, affected by super-sensible agencies. The col-unus of T. P.'s Weekly have recently witness to the existence of superTHE FARMER'S ADVOCATE



NOW here's the newest, nattiest and classiest road wagon—one of the new gems for 1909 season. This wagon is fitted with the Baynes Long-Distance Axles, which will run a year with one oiling, and the Baynes Ball-Bearing Quick-Shifting Couplers.

BAYNES BUGGIES

You can take out the shafts in ten seconds, put in the pole in ten seconds more — and there you are. If your dealer doesn't handle our work, write us direct.

THE BAYNES CARRIAGE CO., LIMITED, HAMILTON, ONTARIO.

NEW IMPORTATION OF CLYDESDALES. **STALLIONS AND MARES**. We shall be pleased to supply any person desiring a first class Clydesdale stallion or mare when our new consignment arrives, which will be about August 20, 1909. JOHN A. BOAG & SON, QUEENSVILLE, ONTARIO.

FEET Iron Pipe for sale, from $\frac{1}{2}$ " to 10" Dia. All lengths for carrying water, steam, posts, fencing etc. Very cheap, any quantity. IMPERIAL WASTE & METAL CO. 5-13 QUEEN ST., MONTREAL

A Lesson in Courage.

Spanish-American War'' there is a fine

have been the end of it; but Chaffee stood there, with the bullets kiyiying around him, beside the boy, who had crouched down again, and thought, with his chin in his hand.

LIKE A VETERAN.

"By and by he put his hand on the boy's shoulder. "There isn't as much danger as you think for,' said he. 'Now get up and take your gun and fight, and I'll stand here by you.' The boy got In Watterson's "History of the up, shaking like a leaf, and fired his first shot pretty near straight in the air. "That's pretty high,' says the General 'Keep cool, and try again.' Well, in three minutes that scairt kid was fighting like a veteran and cool as a cucumber, and when he saw it, the General youngster. 'You saved me from worse than death,' and he was pretty close to crying when he said it. After a while the order came to retire from the trench, and we had just to collar that young fellow and haul him away by the neck, to get him to retreat with the company. In the rest of the fights there was not a better soldier in the company."-[T. P.'s Weekly,

Brevities.

An inner choice to do right is much better than an outward restraint from doing wrong.

Listen to the man who speaks of what he knows better than you do. He is competent to be your teacher.

When you see a man busy following his own advice, keep him company. He is not otherwise a safe counsellor.

The proper discharge of duty to-day is the best preparation for the performance of larger tasks to-morrow

Do your best ! Work that is indifferently done may cost little time and labor, but it is the dearest in the end. Only thoroughness really pays

When a young man prides himself that he is the victim of but a single vice, remind him of Bishop Hall's remark

1085

it'll be all good, and You know call larfin' , sir, they

Break 11

visitor at our Sabour little

then sudred-headed own go to

w teacher. ith an air t Sunday. that kid where to

ERAL.

me to his exclaimed Carberry i they are n I go?' n Billy rethe out l not have "Mother. oo dead.

isible sight; I see no reason why we should on a priori grounds discredit the

Ambrew Carnegie, at a dinner given in his honor in New York, told a story at ius own expense. "I was travelling on " he said, "and had chosen a seat in a non-smoking carriage. At a way station a man boarded the train, sat down in my compartment, and lighted a the clay pipe. 'This is not a smoking Carriage,' said L. 'All right, governor,' said the man; 'I'll just finish this pipe here. He finished it, then refilled it 'See here,' said I, 'I told you this wasn't a smoking carriage. If you Persist with that pipe I shall report you '' 'he next station to the guard.' I handed him my card. He looked at it, wheted it, but lighted his pipe again. 'he next station, however, he changed mother compartment. Calling a guard, I told him what had occurred, and demanded that the smoker's name and oddress be taken. 'Yes, sir,' said the guard, and hurried away. In a litwhile he returned. He seemed rather twod - He bent over me and said apologoverally. The you know, sir, if I were I would not prosecute that gent. as just given me his card. Here it is the is Andrew Carnegie "

Talk abou the regular. "Chaffee's the old boy for my money. I found out what he was at El Caney. My company was at work digging trenches, and while we were fin- started on : 'You're all right now, my ishing up one of the Spaniards began to soldier ' 'God bless you, sir !' said the fire, and the bullets sang their pretty tunes nigh to our heads. Well, there was a kid in the company that couldn't have been over eighteen. Never ought to have let him enlist at all. He was always complaining and kicking, and at the first fire down he went flat on his face, and lay there. One of the men kicked him, but he didn't stir. Then along came Chaffee, cool and easy, and sees the kid. ' Hello, there !' says Chaffee. 'What's the matter, you fellow down there ! Get up and fight with your com-'No; I can't,' whines the kid. 'Can't ?' says Chaffee, jumping down into the trench and hauling the boy up. 'What's the matter with you that you can't ? Are you hurt ?' 'No, sir,' says he, 'I'm scairt. I'm afraid of getting hit.' 'Well, you're a fine soldier !' says Then he looked at the boyish face of the lad, and his face kind of order. softened. 'I suppose you can't help it,' he said 'It ain't so much your fault. man from Illinois. I'd like to get hold of the fellow that took you into the army.' I suppose any tell you," answered Johnson, and that other general would have sent the boy

Out of Order.

Champ Clark loves to tell of how in the heat of a debate Congressman Johnson, of Indiana, called an Illinois repre sentative a jackass. The expression was unparliamentary, and in retraction Johnson said :

"While I withdraw the unfortunate word, Mr. Speaker, I must insist that the gentleman from Illinois is out of

"How am I out of order?" yelled the

" Probably a veterinary surgeon could was parliamentary enough to stay on to the rear in disgrace, and that would the record.-[Success Magazine.

"Vices are seldom single."

A youth with only ordinary talent, but extraordinary diligence, will likely accomplish more than one who has been considered a 'genius'' by his friends.

Edison was once asked by a youth, "Do you not think that genius is inspiration ?'' The electrical wizard replied, "No, not inspiration, but perspiration." Do you perspire?

We have known many fathers, "good, bad, and indifferent." but we never knew one who did not want his son to be a better man than his sire, no matter how good or how had he himself was.

The first book a boy reads is not the Bible, but his father's life, and it is a sad thing for the son, and a sadder thing for the father, if when the lad grows and reads the Book he finds that it contradicts what he has already read in his father's life.- [Epworth Era.

Mary, aged five years, and Stella, who was about the same age, were talking about their future dreams.

"When I grow up," said Mary, "I'm going to be a school teacher."

"Well, I'm going to be a mother with four children," said Stella.

"Well, when they come to my school I'm going to whip them, whip them, whip them !"

"You mean thing !" said Stella, as the tears came into her eyes. "What have my poor children ever done to you ?"

1086

BALMY BEACH COLLEGE AND School of Music and Art. A residential school for girls, and a day school for boys and girls. Regular with kindergarten, and 2nd-year collegiate special courses in MUSIC, ART, EXPRESSION, LANGUAGES, AND COMMERCIAL BRANCHES. Fall term begins September 8, 1909. For full particulars write to Mrs. A. Courtice, Directress, E. Toronto, Ont. 59 Beech Ave. Tan, Freckles, Mothpatches, and all discolorations dissolved, and a clear complexion will be yours if you will accept our advice and use COMPLEXION PURIFIER For seventeen years it has been the ideal remedy for complexional disorders. Get bocklet "F," it de-scribes our work fully. Superfluous Hair, Moles, the prememently or di etc, permanently eradi-cated by our reliable Satisfaction assured. method of Electrolysis. HISCOTT DERMATOLOGICAL INSTITUTE. Tel. M. 831 61 College St., Toronto. Est. 1892 ROCK SALT for Stock. \$10 PER TON. Toronto Salt Works. G. J. Cliff, Manager Advertisements will be inserted under this heading, such as Farm Properties, Help and Situations Wanted, and Pet Stock. TERMS—Three cents per word each inser-tion. Each 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 less than 50 cents.

FARM for sale in Huron County, McKillop Township, Con. 5 and 6. One hundred and fifty acres. With or without crop, stock and im-plements. Immediate possession. Phone in house. fifty acres. With or winners, lements. Immediate possession of P. (Frank Evans, Beechwood P. O., Ont.

FARM for sale near the east shore of beautifu Lake Simcoe. A very desirable location 255

THE FARMER'S ADVOCATE.

The Evening Wind.

Spirit that breathest through my lattice, thou

- That cool'st the twilight of the sultry day !
- Gratefully flows thy freshness round my brow
- Thou hast been out upon the deep at play,
- Riding all day the wild blue waves till now,
- Roughening their crests, and scattering high their spray,
- And swelling the white sail. I welcome thee
- To the scorched land, thou wanderer of the sea !

Nor I alone --- a thousand bosoms round Inhale thee in the fullness of delight ; And languid forms rise up, and pulses bound

- Livelier, at coming of the wind of
- And languishing to hear thy graceful
- Lies the vast inland, stretched beyond the sight.
- forth into the gathering shade go
- God's blessing breathed upon the fainting earth !

Go, rock the little wood-bird in his nest Curl the still waters, bright with stars; and rouse

- The wide old wood from his majestic
- The strange, deep harmonies that haunt
- Pleasant shall be thy way where meekly
- The shutting flower, and darkling waters.
- And where the o'ershadowing branches
- sway
- The sighing herbage by the gleaming
- That they who near the churchyard willows stray.
- And listen in the deepening gloom,
- away Like thy pure breath, into the vast unknown
- Sent forth from heaven along the sons
- The faint old man shall lean his silver head
- To feel thee; thou shalt kiss the child
 - And dry the moistened curls that over-

- The Golden Dog (Le Chien D'Or.)
- A Canadian Historical Romance. Copyright, 1897, by L. C. Page & Co. (Inc.) [Serial Rights Secured by the Wm. Weld Co., Ltd., London, Ont.]

CHAPTER XXL-Continued.

The young soldier laughed merrily. " If fame, immortality and true love are to be mine, what care I for death ? It will be worth giving up life for, to have the tears of the maids and matrons of New France to lament your fate. What could the most ambitious soldier desire more ?"

The words of Jumonville struck a kindred chord in the bosom of Hortense de Beauharnais. They were stamped upon her heart forever. few years after this prediction, Jumonville de Villiers lav slain under a flag of truce on the bank of the Monongahela, and of all the maids and matrons of New France who wept over his fate, none shed more and bitterer tears than his fair, betrothed bride, Hortense de Beauharnais

The prediction of the Sieur Gauthier was repeated and retold as a strangely-true tale : it passed into the traditions of the people, and lingered in their memory generations after the festival of Belmont was utterly forgotten.

When the great revolt took place in the English colonies, the death of the gallant Jumonville de Villiers was neither forgotten nor forgiven by New-France. Congress appealed in vain for union and help from Canadians. Washington's proclamations were Stoop o'er the place of graves, and softly trodden under foot, and his troops driven back or captured. If Canada was lost to France partly through the death of Jumonville, it may also be said that his blood helped to save it to England. The ways of Providence are so mysterious in working out the problems of national exist-May think of gentle souls who passed ence that the life or death of a single individual may turn the scales of destiny over half a continent.

But all these events lay as yet darkly in the womb of the future. The gallant Jumonville who fell, and his brother Coulon who took his "noble revenge " upon Washington by sparing his life, were to-day the gayest of the gay throng who had Philibert.

While this group of merry guests, half in jest, half in earnest, were trying to discover in the stars the

FOUNDED 1866

" A little while ago, I feared I might offend you, Le Gardeur," said she, taking his hand tenderly in hers, " if I spoke all I wished. I never did offend you that I remember, brother, did I

" Never, my incomparable sister: you never did, and never could. Say what you will, ask me what you like; but I fear I am unworthy of your affection, sister.

" You are not unworthy; God gave you as my only brother; you will never be unworthy in my eyes. But it touches me to the quick to suspect others may think lightly of you, Le

He flinched, for his pride was touched, but he knew Amelie was " It was weakness in me," right. " I confess it, sister. To said he, pour wine upon my vexation in hope to cure it, is to feed a fire with oil, To throw fire into a powder magazine were wisdom compared with my fofly, Amelie : I was angry at the message I got at such a time. Angelique des Meloises has no mercy upon her lovers !"

"Oh, my prophetic heart ! I thought as much ! It was Angelique, then, who sent you the letter you read at table ?"

"Yes, who else could have moved me so? The time was ill-chosen, but I suspect, hating the Bourgeois as she does. Angelique intended to call me from Pierre's fete. I shall obey her now, but to-night she shall obey me, decide to make or mar ma, one way or other ". You may read the letter, Amelic, if you will."

' I care not to read it, brother: I know Angelique too well not to fear her influence over you. Her craft and boldness were always a terror to her companions. But you will not leave Pierre's fete to-night "" added she, half-imploringly, for she felt keenly the discourtesy to Pierre

'I must do even that, sister! Were Angelique as faulty as she is fair, I should only love her the more for her faults, and make them my own. Were she to come to me like Herodias, with the Baptist's head in a charger, I should outdo Herod in keeping my pledge to her.

Amelie uttered a low, moaning cry. O my dear, infatuated brother, it is not in nature for a De Repentigny to love irrationally like that ! What maddening philtre have you drank, to intoxicate you with a woman who uses you so imperiously ? But you will not go, Le Gardeur !" added she, clinging to his arm "You are safe so long as you are with your sister-you will be safe no longer if you go to the Maison des Meloises to-night !"

" Go I must and shall. Amelie ! - I

acres.	I wo sets	01	buildings;	8111	table	for two
farms. Beaver	Write for ton, Ont.	full	particulars	to :	С. Ј.	McRae
and the second se		_				

DARTIES wanting to buy a farm, or sell any kind of property, now is the time. We have some bargains to offer in farms. Write, stating what kind of a farm you want We can suit you in suburban, or farm from one acre to 200. B. Law-son, Auctioneer, The London Real Estate, 414 Talbot St., London.

WANTED-Persons to grow mushrooms for us at home. Waste space in cellar, garden or farm can be made to yield \$15 to \$25 per week. Send for illustrated booklet and full particulars. Montreal Supply Co., Montreal.



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EGGS HALF PRICE-Black Minorcas, Barred Rocks and Brown Leghorns. A few choice hens for sale. C. Day, Highgate, Ont.

S -C. WHITE LEGHORNS of prizewinning strains. Eggs priced for remainder of season, 75c. for 15. hatch guaranteed, Geo. D. Fletcher, Binkham. Ont., Erin Station.

- And they who stand about the sick man's
- Shall joy to listen to thy distant SW((e1))
- And softly part his curtains to allow Thy visit, grateful to his burning brow.

Which is the life of nature, shall re-

- With sounds and sense from all thy
- sweet odors in the sea-air, sweet and

city's palateal restaurants.

When they were leaving, one of them re-

ed the life of each, Amelie led her brother away from the busy grounds near the mansion, and took a quiet path that led into the great park

A cool, salt-water breeze, following the flood tide that was coming up the broad St. Lawrence, swept their faces as Amelie walked by the side way of things familiar, and of home turn into calmer channels. Her the prompting of true affection, where

far, but Amelie's heart was full :

kept up her half-sad, half-glad mono-

know that, Amelie, and would not take an antidote if I had one ! The world has no antidote to cure me. I have no wish to be cured of love for Angelique, and in fine I cannot be, so let me go and receive the rod for coming to Belmont, and the reward for leaving it at her sumbut Amelie's car easily detected the

yours? She is like the rest of us, weak and fickle, merely human, and not at all the divinity a man in his fancy worships when in love with a

What care 1. Amelie, so long as menor answered he: "but she will think her tardy lover is both weak appearance at the Maison dis Me-

Amelie's tears flowed silently in the of her brother, yet she remebered bitNDED 1866

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JELY 1, 1909

NEW

CENTURY

white

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Streed

This new Wringer Attachment is "head and shoulders" above any other.

The entire stand is absolutely sigid always in position—never in the way and the water drains right into the tub.

"New Century" Washing Machine-complete and delivered at any saliway station in Ontario or Quebee-outly \$3.50.

DOVERWELL MANUFACTURING OG. LENTED.

HAMILTON, OWT

COMMENCE USING

WILSON'S FLY PADS

early. A few house flies killed in June represent a

Cake Icings

If you had trouble with

prepared Cake Icing, it

Even a child can ice a

cake perfectly, in three

minutes, with Cowan's

Icing. Eight delicious

flavors. Sold every-

The Cowan Co. Limited,

Toronto.

89

was not Cowan's.

where.

Write for free booklet.

Wringer

84

the Intendant. Was she using Le pelled to go to the city on an affair Gardeur as a foil to set off her at- of urgency, and had left them to tractions in the eyes of Bigot?

THE FARMER'S ADVOCATE.

"Brother !" said Amelie, "I am a woman, and comprehend my sex better than you. 1 know Angelique's far-reaching ambition and crafty ways. Are you sure, not in outward persuasion, but in inward conviction, that she loves you as a woman should love the man she means to marry ?"

Le Gardeur felt her words like a silver probe that searched his heart. With all his unbounded devotion, he knew Angelique too well not to feel a pang of distrust sometimes, as she showered her coquetries upon every side of her. It was the overabundance of her love, he said, but he thought it often fell like the dew round Gideon's fleece, refreshing all the earth about it, but leaving the fleece dry. "Amelie !" said he, "you try me hard, and tempt me, too, my sister, but it is useless. Angelique may be false as Cressida to other men, she will not be false to me! She has sworn it, with her hand in mine, before the altar of Notre Dame. I would go down to perdition with her in my arms rather than be a crowned king, with all the

Amelie shuddered at his vehemence, tulation. She wisely refrained, deeming it her duty, like a good sister, to make the best of what she could not hinder. Some jasmines overhung the seat; she plucked a handful, and gave them to him as they rose to return to the house.

"Take them with you, Le Gar-deur," said she, giving him the flowers, which she tied into a wreath, they will remind Angelique that she has a powerful rival in your sister's

He took them as they walked slowy back. "Would she were like you, Amelie, in all things ''' said he. will put some of your flowers in her hair to night for your sake, sister." "And for her own ! May they be for you both an augury of good ! Mind and return home, Le Gardeur, after your visit. I shall sit up to await your arrival, to congratulate you," and after a pause she added,

"Oh, no fear, sister !" replied he, cheeringly. "Angelique is true as steel to me. You shall call her my betrothed to-morrow ! Good-by ! And now go dance with all delight till morning." He kissed her and departed for the city, leaving her in the ball-room by the side of the

Amelie related to her aunt the realt of her conversation with Le Gardeur, and the cause of his leaving the fete so abruptly. The Lady de Tilly listened with surprise and dis-"To think," said she, " of Le Gardeur asking that terrible girl to marry him ! My only hope is she will refuse him. And if it be as I hear, I think she will !"

make excuses. Pierre Philibert was not without a shrewd perception of the state of affairs. He pitied Le Gardeur and excused him, speaking most kindly of him in a way that touched the heart of Amelie. The ball went on with unflagging spirit and enjoyment. The old walls fairly vibrated with the music and dancing of the gay company.

The music, like the tide in the great river that night, reached its flood only after the small hours had set in. Amelie had given her hand to Pierre for one or two dances, and many a friendly, many a half-envious guess was made as to the probable Chatelaine of Belmont.

CHAPTER XXII.

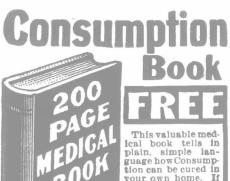
So Glozed the Tempter.

The lamps burned bright in the boudoir of Angelique des Meloises on the night of the fete of Pierre Philibert. Masses of fresh flowers filled the antique Serves vases, sending delicious odors through the apartment, which was furnished in a style of almost royal splendor. Upon the white hearth a few billets of wood blazed cheerfully, for, after a hot day, as was not uncommon in New France, a cool salt-water breeze came up from the great river, bringing reminders of the cold, sea-washed rocks and snowy crevices still lingering upon the mountainous shores of the St. Lawrence.

Angelique sat idly watching the wreaths of smoke as they rose in

shapes fantastic as her own thoughts. By that subtle instinct which is a sixth sense in woman, she knew that Le Gardeur de Repentigny would visit her to-night and renew his offer of marriage. She meant to retain his love and evade his proposals, and she never for a moment doubted her ability to accomplish her ends. Men's hearts had hitherto been but potter's clay in her hands, and she had no misgivings now; but she felt that the love of Ie Gardeur was a thing she could not tread on without a shock to herself like the counterstroke of a torpedo to the naked foot of an Indian who rashly steps upon it as it basks in a sunny pool. She was agitated beyond her wont,

for she loved Le Gardeur with a strange, selfish passion, for her own sake, not for his-a sort of love not uncommon with either sex. She had the frankness to be half-ashamed of it, for she knew the wrong she was doing to one of the most noble and faithful hearts in the world. But the arrival of the Intendant had unsettled every good resolution she had once made to marry Le Gardeur de Repentiony and become a reputable Her ambitious fantasies dimmed every perception of duty to her own heart, as well as his; and she had worked herself into that unenviable frame of mind which possesses a woman who cannot resolve either to consent or deny, to accept her lover or to let him go. The solitude of her apartment became insupportable. She sprang up, opened the window, and sat down in the balcony outside, trying to find composure by looking down into the dark, still street. The voices of two men engaged in eager conversation reached her ear. They sat upon the broad steps of the house, so that every word they spoke reached her ear, although she could scarcely distinguish them in the darkness. These were no other than Max Grimeau and Blind Bartemy, the brace of beggars whose post was at the gate of the Basse Ville. They seemed to be comparing the amount of alms each had received during the day, and were arranging for a supper at some obscure haunt they frequented in the purlieus of the lower town, when another figure came up, short, dapper, and carrying a knapsack, as Angelique could detect by the glimmer of a lantern that hung on a rope stretched across the street. He was greeted warmly by the old mendicants.



1087

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No. 1. A first Preferred Stock in a large manufacturing company—guaranteed 7 per cent. This is a highly at 7 per cent. Interest is payable half-yearly at 7 per cent. Per annum. There is also a bonus of stock which will increase the profit 50 per cent.

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long as tickle to she will oth weak speedy des Me-to de-by the

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(Trailgar Castle) Palatial buildings, acknowledged to be unequalled anoda by those or any ofter Ladney School or College judeal ention in a Collegiate town mear Toronto, g ying to those inde and it asy access to city concerts; in monito ent College in enti-embracing one-hundred acres, and having a campus inteently harge to camble all students to play at the same new without interfering with each other; symmasium, 40 x 80 et; campetul home, and social training that will be likely to up of the executials of good manners under morse and Chris-ari, equipment and courses of study. Take note of the fact is the enclose study of pominion reput; if on are at the cad of the various departments. It will pay you to consider be ubove special advantages and send for calendar to the

REV. J. J. HARE, Ph.D., Principal



Ma herd is headed by Scottish Pride, grandson of Grin of Bellachin, imp, winner of eight prizes at Foronto and London, besides being champion tenale. For sale: one yearling bull, grandson of Derby, imp.; a few yearlings-heifers and cows-all prizewinner cattle

F W NICHOLSON, FLESHERTON P. O., ONT.

"It would be the ruin of Le Gar-deur if she did, aunt ! You cannot think how determined he is on this marriage.

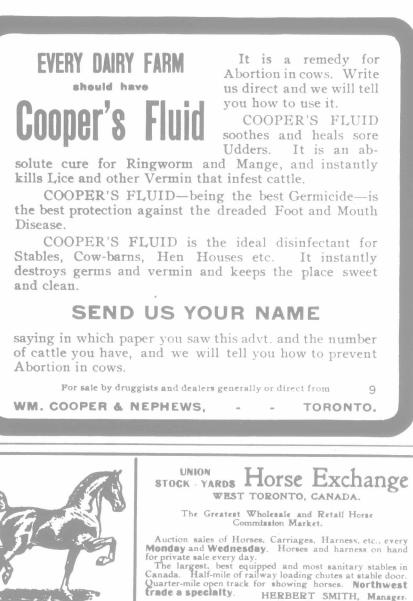
"It would be his ruin if she ac-cepted him !" replied the Lady de Tilly. "With any other woman Le Gardeur might have a fair chance of happiness, but none with her! More than one of her lovers lies in a bloody grave by reason of her coquetries. She has ruined every man whom she has flattered into loving her. She is without affection. Her thoughts are covered with a veil of deceit impenetrable. She would sacrifice the whole world to her vanity. I fear. Amelie, she will sacrifice Le Gardeur as ruthlessly as the most worthless of her admirers." "We can only hope for the best, aunt : and I do think Angelique loves Le Gardeur as she never loved

They were presently rejoined by Pierre Philibert. The Lady de Tilly and Amelie apologized for Le Gardeur's departure-he had been com-

(To be continued.)

Sufferers from Fits, Epilepsy, St. Vitus' Dance, Nervous Troubles or Faling Sickness should write the LIESIG CO., 179 King street, Toronto, for a trial bottle of their Fit Cure and Treatise. Enclose 10c for postage and packing.

CONTRACTOR SIG



1088

HERBERT SMITH, Manager. (Late Grand's Repository). NEW CLYDESDALE IMPORTATION My new importation of 24 Clydesdale stallions is now in my stables. I invite inspec-tion and comparison. I think I have the best lot for size, style, character, quality and action ever imported. 27 Clyde stallions and 8 Hackney stallions to select from. Prices right, and terms to suit, MARKHAM, ONT. T. H. HASSARD, POST OFFICE, PHONE AND STATION. **CLYDESDALES AND FRENCH COACHERS** We have still on hand a few choice Clydesdale stallions—all young—that for size, style and quality will stand inspection. We have also a few Clyde fillies—im-ported and Canadian-bred, and two French Coach stallions. Correspondence and inspection invited. Our prices are easy and terms to suit. 'Phone connection. **R. NESS & SON, HOWICK, QUEBEC.** CLYDESDALES AND SHORTHORNS. - Both Imported **GLIDESUALLS AND SHUKIHURNS.** and Canadian-bred, at Columbus, Ont., the Home of the Winners. Our last importation landed in August. They include the pick of Scotland, from such renowned sires as Baron's Pride, Everlasting, Baron o' Bucklyvie, Hiawatha, Marsells, Sir Evérest, and Prince Thomas. We have on hand over 30 head to choose from, from the above noted sires, from 1 to 6 years old, and including stallions and mares. Correspondence solicited. Call and see them at our barns, Columbus, Ont., before purchasing elsewhere. Our prices are right. Long-distance phone in houses. 'Phone office, Myrtle station. Myrtle station, C.P.R.; Brockling stallion for R. P.

QUESTIONS AND ANSWERS. Miscellaneous.

BLOODY MILK.

What will cure a cow that gives bloody milk out of one quarter? She has been that way for about a month. $W_{\rm s}$ M.

Ans.-This trouble is generally due to rupture of some of the small blood vessels of the udder, and, while the flow of blood can usually be checked, recurrence the last. They are fed mixed chick feed, of the trouble cannot be prevented. Bathe the affected quarters long and often with fresh water, and run where they please. cold water and give one ounce tincture of iron in a pint of cold water as a drench that adding carbolic acid to drinking three times daily until blood ceases to flow. Milking should be performed gently to avoid recurrence.

U. E. LOYALIST LANDS.

My father was a son of a U. E. L., and his grant came to him in Middlesex County. Through some deal he let it go, but my mother never signed her rights away. My father has been dead twenty-two years. After his death, par-ties came from there to get my mother and has died since. It is now seventeen

Have we, their children, any chance of claiming the said property? If so, what

Ans.-We do not see that you are in a with any reasonable prospect of success.

HORSE-RADISH.

me of any good way to kill it out " So NEW SUBSCRIBER

son why plowing and cultivating, with a

MILKWEED.

covered with it. Last year I had roots it is covered with the weed. Would summer-fallowing kill it? I. N. M.

Ans.-Milkweed is a very persistent here, and he has it patented, not only weed, although not usually counted a as a harrow cart, but also the riding method recommended for mulkweed is the would have a test case maide of two

FOUNDED 1866

each of resublimed crystals of iodine, rodide of potassium and rodide of ammonium, and 5 ounces each of alcohol and glycerine. Apply with smart triction, once daily.

CHICKS DYING.

Young chicks are just getting feathers. They begin to walk slowly, with feathers fluffing out, look pale and refuse to eat, and are dead in about three days. Do not notice bowel trouble unless just at corn, cracked and small wheat, plenty of Is it for want of proper grit? Found water improved condition of older chicks. MRS. G. W. B.

Ans.-I have raised many thousands of chicks, and have never had such an experience as related by your correspondent. My chicks were no better fed, except that they had a certain quantity of soft food. The trouble is not from want of grit, for the chicks run where they please, so have opportunity to pick up all the grit they require. It looks as if the chicks had taken something poisonous. Could they possibly get at the drink water charged with carbolic acid and intended only for the older chickens? The chicks have, evidently, been well cared for, and should thrive well, unless they have access to something injurious. Give a A = G, G.

HARVESTING ALSIKE CLOVER.

1. What is the proper time to cut

2. What is the best way to harvest it when you have no side-delivery rake?

3. Will there be enough alsike seed fall off for a crop another year, or do you W. M.

ing when nearly all the heads are fully matured. The bloom will then have left them, and they will be of a reddish cast. The earlier heads will have turned a dark yet linger on the later and smaller heads, but harvesting should not be delayed until

2. With a self-rake reaper. If this is not available, then with the self - binder. the sheaves being thrown off unbound. Most farmers cut it with the mower, with a platform attachment to the cutter har, a man walking after it and raking, or forking, off the hay in bunches.

Ily allowing some heads to seed every

INFRINGEMENT OF PATENT.

We have had some discussion over the for his own use. Please let me know



LUMP IN TEAT-LAME HORSE

Being a great reader of the ever-wel-



DED 1866

of iodine, iodide of of alcohol

g feathers. Ch feathers ise to eat, days. Do chick feed, . plenty of hey please. Found drinking der chicks. $\{\ldots,W,\ldots,B\}$

ich an exsoft food t of grit. please, so ll the grit the chicks is. Could ink water d for, and $\mathbf{A} = \mathbf{G}$, \mathbf{G} ,

CLOVER.

rake ? e seed fall or do you W. M. or harvest-are fully have left ldish cast

led a dark loom may ller heads, layed until lf this is lf - binder,

ower, with ter bar, a . or fork-

TENT.

over the th regard out any-ny device, irrow, he e of two covers it n if it is me know rested m . D. B.

JULY 1, 1909

Horse Owners! Use GOMBAULT'S austic Balsam A Bafe, Speedy, and Positive Cure

A Safe, Speedy, and Positive Unre The safest, Best BLISTER ever used. Takes the place of all linaments for mild or severe action. Removes all Bunches or Blemishes from Horses and Cattle, SUPERSEDES ALL CAUTERY OR FIRING, *Mapossible to produces car or blemish* Every bottle sold is warranted to give satisfaction Price \$1.50 per bottle, Sold by druggists, or sent by express, charges paid, with full directions for its use. Send for descriptive circulars. The Lawrence-Williams Co., Toronto, Ont,



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aration (unlike others) acts by a bsorbing rather than blister. This is the only preparation in the world guaranced to kill a Ringbone or any Spavin or money refunded, and will not kill the hair. Manufactured by Dr. Fredrick A. Page & Son, 7 and 9 Yorkshire Road, London, B. C. Mailed to any address upon receipt of price, \$1.00. Canadian agents:

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THICK, SWOLLEN GLANDS that make a horse Wheeze; Roar, have Thick Wind, or Choke-down, can be re-moved with Las

THE FARMER'S ADVOCATE.

QUESTIONS AND ANSWERS. Veterinary.

SWOLLEN LEG.

Four-year-old mare swelled in one hind leg from foot to hock. It seems hard and feverish. W. J.

Ans.-Give her a purgative of 8 drams aloes and two drams ginger. Follow up with 1 dram iodide of potassium in damp food three times daily. Hand-rub and bandage the leg, and after the purgative has ceased to act, give regular exercise.

LARYNGITIS.

My horses' throats are swollen. They ough, and discharge from their nostrils. (). L.

Ans.-Your horses have an inflammation if the throat, or larynx, called laryngitis. You must be very careful not to allow them to get wet or cold, and not heat them by working. Get a liniment made of 3 parts each of oil of turpentine and raw linseed oil and 1 part liquor ammonia fortier. Rub their throats twice daily with this for two days, and wrap their throats in flannel. Give each, four times daily, 3 drams chlorate of potassium and 20 grains quinine sulphate. If complications arise, send for your vet-

Miscellaneous.

BREEDING HEIFER-YOUNG BULL.

A heifer calved very young. I inend letting her run 20 months before reshening again. How long should I let her dry to get her in shape for official esting ?

2. Does it do a bull eight months old harm to run with cows? At what age is he fit for service? SUBSCRIBER.

Ans.-1. The enquirer is probably aware that by the rules for admission to the Record of Performance for a yearly test, every cow accepted for registration must drop a calf within 15 months after commencement of the test. In the fourcow will be accepted for registration in the Record if the beginning of her previous lactation period was more than fifteen months before the commencement of the test. We are not aware that for a weekly or monthly test there is any rule restricting the period a cow may remain dry before commencing a test. It is known that a cow which has been dry for three months or more, and well fed during the interim, will give much more milk than one that has been dry for half rest for at least three months.

ice before he is 12 months old, and then and the other had the usual number. I to only a very limited extent, not more saw two pastures; one with tender grass than twice a week. Earlier service is growing and not a weed in sight, while is not good practice to allow a young grass. I investigated, and found that hull, or a hull of any age, to run with hoth farmers were first-class workers and

years ago, when we had ducks on the farm. One hot morning—at the end of June-my man brought in one of our best - developed and healthy Pekin ducklings, limp and dead. "What do you think was the matter with the duck ?' he asked. "What a pity," I said, "it is one of our best ducklings. Did you notice anything wrong with it ?" "No." said he, "it was strong and busy chasing flies a short time ago, when I passed by. On coming back, a few minutes ago, I found it lying dead." "It got the usual rations?" I asked. "Yes." he replied, and then we both looked exceedingly nonplussed. It then occurred to me. and I asked, "Was it running about in the hot sun"? "Yes," was the reply. "Probably that was the cause of death. I remarked. And all other conditions being correct, what else can be said on the present occasion? In "The Farmer's Advocate" of 17th June, page 1013. proper rations for ducks are given. A. G. G.

GOSSIP.

"Of course, women should vote," said Oliver Herford. "Women deserve the suffrage as much as men-more, because their minds are purer and cleaner.

'('leaner?'' cried the sweet young thing Mr. Herford had taken in to dinner. "Of course they are, ever and ever so much cleaner ! But how do you know that?' 'Because they change them so much oftener," said he, solemnly.

WHAT IS AN INCH OF RAIN? The rain fell in buckets, the thunder racketed terribly, and the lightning drew zigzag lines of bright gold upon the violet sky.

"So you, too, don't know what an inch of rain is exactly," said the weather Write to-day clerk, as he looked at his rain-measuring details instrument. "Very few people do, it worth seems. I'll explain it to you.

"An acre is 6,272,640 square inches. An inch of water on an acre is, therefore, 6,272,640 cubic inches. That amount, at 227 cubic inches to the gallon, equals 22,000 gallons. or 220,000 lls., or 100 tons.

"An inch of rain is, in other words, rain falling at the rate of 100 tons to the acre.

THE VALUE OF SHEEP.

The following experience of a Texas man, shows the value of sheep from many viewpoints, and what he did, any other farmer can do. He says :

"The way I happened to put a flock of sheep on my farm is this : Going back that time, or less. In the case in ques- and forth between my town and Dallas, tion, we think the heifer should have a -1 noticed two adjoining farms, each showing that there was a good farmer on it; 2. A hull should not be used for serv- yet one was completely clean of weeds, the other in places had more weeds than the cows, unless he is very sluggish and knew how, but one had a flock of sheep on his place, while the other had not This set me to thinking, and I decided I would look into the matter. After some correspondence I purchased fourteen ewes will take a weakness in the back and can- and a ram from a dealer in the State, and began experimenting with them. That was eighteen months ago. I now have forty head, and am going to buy

Palpitation of the Heart.

One of the first danger signals that announce something wrong with the heart is the irregular beat or violent throb. Often there is only a fluttering sensation, or an "all gone" sinking feeling; or again, there may be a most violent beating, with flushings of the skin and visable pulsations of the arteries. The person may experience a smothering sensation, gasp for breath and feel as though about to die. In such cases the action of Milburn's Heart and Nerve Pills in quieting the heart, restoring its normal beat and imparting tone to the nerve centres, is, beyond all question, marvellous. They give such prompt relief that no one need suffer.

Mrs. Arthur Mason, Marlbank, Ont. have done for me. I have been troubled with weakness and palpitation of the heart, would have severe choking spells and could scarcely lie down at all. I tried many remedies but got none to answer my case like your pills did. can recommend them highly to all with heart or nerve trouble."

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Farmers or ranchmen starting breeding Clydes, pure or grade, specially invited to correspond.

For Love Knot (Vol. XXVII) [5826] Sale Love Milt (VUI. AAVII) [JOLD] Imported Clydesdale Brood Mare. Foaled May 25, 1902. Color dark brown, white stripe on bace. Sire Lord Fontleroy (10370), dam Bridal Knot (13536). MISS KNOI [7434]; bay, foaled May 17, 1955. Sire Imp. Cairngaan [4757] (12073)." Dam Imp. Love Knot (as above). These mares were the property of the late R. S. Cundle, of Barrie, Ost., and are now for sale, and can be inspected any tume at Barrie. For further particulars apply to : Thomas A. McDarthy, Day 472, Parcela Out Thomas A. McCarthy, Box 472, Barrie, Ont

Shetland, Welsh and Iceland Ponies I have on hand a number of single ponies and matched pairs; all ages; thoroughly proken to harness and reliable in every way. DYMENT, Copetown P.O. and Sta. FLEASE MENTION THIS PAPER.

DUCKS DYING.

Young ducks are dying; some of them not walk, and die very quickly. In fact, many of them we never see anything wrong with until they are dead.

W. M. K

Ans .- It would have aided a correct determination to have known how old were the ducks; on what fed, and how housed. But the fact remains that all experienced breeders agree that sick ducks are as good as dead ducks, for it certainly does stitutionally-strong and well-mated parent stock, the offspring are usually strong, and grow rapidly. Ailments (to which ducks are not susceptible) are usually brought on by incorrect treatment and feeding. Here are some general rules which should always be observed, viz.: Keep young ducks from water until they lowed to swim. Water to drink, which of utilizing the waste about his place, should always be regularly supplied, cleaning his fence rows of weeds and should be given to them in a marrow-

quently fatal. I had an experience a few

"I find that the sheep is valuable on the farm for its usefulness in destroying weeds, if nothing else; that the wool clip will more than pay for the cost of the feed during the months when there is no pasture; that the trouble to keep them is comparatively nothing, and that the increase is almost 100 per cent. an-

"Sheep, if treated kindly, are easier handled and more easily trained than either horses, cattle, or hogs. With just a little effort, one can teach them to drive, or to follow from lot to pasture and the reverse. I think every farmer should have a small flock for the purpose bushes, and enriching the soil. And when you consider the two sources of profit-the sale of wool and the sale of lambs, at to-day's prices-it is clear that within a few years on most every farm there will be found a bunch of sheep.

Sherbrooke, Que., 1907; Calgary, Atta., 1908, our Aberdeen-Angus herd won all the champion and grand champion prizes. Out of a possible of 42 first-prizes our herd won 40. We have a good graded show herd for sale. Also single animals, bulls and females. herd for or sale. Also single animals, buils and remain JAMES BOWMAN, Elm Park, Guelph.



FOUNDED 1866

step some this fall. It is generally conceded that his stock bull. Netherhall Milkman (imp.), winner of first all around last fall as a two-year-old, will carry off the tri-colors this fall; and the cow, Amaryllis, with a 70-lbs. record, looks very much like winning a threecolored ribbon, also. Mr. McArthur's herd is very strong just now, and anything will be priced. Before leaving Howick, we think it might be of interest to many of the readers of "The Farmer's Advocate" to know that since January 1st. 1909, there has been shipped from Howick Station, Ayrshires to the value

Going a little farther west, we come to Huntingdon, Que., the home of W.F. Stephen, the genial Secretary of the Ayrand carry out a careful and systematic daily weighing and testing of each individual cow's milk, thereby determining which cows were profitable and paid a fair dividend. This system has been in vogue on his farm for a great many in Mr. Stephen's herd of milking age is a moneymaker. This, fact is so well

Another breeder of note in the vicinity of . Huntingdon is D. McFarlane, Kelso P. O. David surprised the talent at Othe brought out the Canadian-bred cow only one of many of the good ones that go to make up his splendid herd. In all these herds are a number for sale, either males, old or young. In this section can be bought carload lots, if required.

An Ohio sheep-breeder reports the recent sale of a wagon load of wool, the present season's clip of his flock, which cost the buyer \$1,663.50. How many loads of any other farm crop would be required to equal this record "

J. A. Watt, Salem, Ont., reports the following recent sales of Shorthorns: To James Seabrook, Massie, Ont., the seventeen months' red bull, Proud Champion, an extra big, strong buli, sired by Rosebud Champion, dam Juanita, one of the best imported cows in Ontario; to J. C. Bricker, Elmira, Banner Boy, an excellent roan son of Jilt Victor; to B. Mc-Gowan, Orton, "The Abbot," a thirteenmonths' son of Jilt Victor, dam Larkspur, a daughter of the good sire and show bull, Abbotsford. I consider "The Abbot" one of the best sons of Jilt Victor. If carried on well, he should develop into a good show animal. These sales have all been made in the last two



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 Λ short visit to Woodside Farm, the beautiful home of R. Ness & Sons, Howbest of them; as a genial, whole - souled ick, Que., found their stud of imported man, he has the respect and confidence of Clydesdales somewhat low in numbers, all his many acquaintances. His owing to the almost phenomenal demand large herd of money-making Ayrshires are that 1909 has brought forth. In the early part of the season, so great was the demand, that of their last year's large importation, only one was left, Acrobat (imp.), a bay four-year-old son of Alexander Everard, dam by Baron's Pride. He is a low-down, very thick, smooth, compact horse, of the carthorse kind, with a grand quality bottom. Some few weeks ago, the firm had sent out, from the Messrs. Montgomery's stud. a pair of choice stallions Baron Craigie. a bay four-year-old, by [p-to-Time, dam this summer, and is, of course, still at by Superb, a horse of very commanding quarantine. Mr. Watt reports 1909 as appearance and quality throughout, has appearance and quality throughout, has since been sold to Taylor Bros., of Defor Ayrshires, his sales extending from wettville. Que., who certainly deserve the Nova Scotia to Western Ontario, and as thanks of the breeders of that section for putting within their reach the services of so choice a stallion. The other was Viscount Lothian, a bay four-year-old, by ably the youngest breeder among the and character, and will certainly be heard more successful ones in the county, but, from in the show-rings this fall. Mr. judging by the splendid success he met Ness, Sr., is now in Scotland making with last fall, in his first venture as ex- selections for this year's importation.

FUJI MICRO SAFETY -

UNDED 1866

nake them all generally conoull, Netherhall of first all o-year-old, will s fall; and the 70-lbs. record, nning a threer. McArthur's now, and any. Before leaving be of interest "The Farmer's since January shipped from to the value ributed practind to several

S . vest, we come nome of W.F. ry of the Ayrephen is owner ished herds in he first dairyto advocate ind systematic of each indidetermi**ning** and paid a n has been in great many every animal nilking age is is so well stock find a

n the vicinity arlane, Kelso talent at Otof 1907, when lian-bred cow h, and she is ood ones that herd. In all or sale, either males or fe-is section can quired.

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reports the rthorns: To t., the sevend Champion, red by Rose-, one of the io; to J. C. , an excelto B. Mca thirteendam Larkood sire and onsider "The

sons of Jilt 1, he should mal. These the last two

JULY 1, 1909

Diarrhoea, Dysentery, **Colic and Cramps**

Nearly every one is troubled with bowel complaint during the summer months. But, do they know what to do to cure it. Thousands do, many don't.

WE CAN TELL YOU! DR. FOWLER'S Extract of Wild Strawberry WILL DO IT!

It has been on the market 64 years, and is universally used in thousands of families.

There are many imitations of this sterling remedy, so do not be led into taking something "just as good" which some unscrupulous druggist tries to talk you into taking.

Dr. Fowler's is the original. There are none just as good. It cures Summer Complaint, Cholera Morbus, Cholera Infantum, Seasickness and all Bowel Complaints

Price 35 cents. Manufactured only by The T. Milburn Co., Limited, Toronte, Ont.

A young New York broker of convivial habits fell in with an old school friend who had gone on the road.

"Whenever you're in town come up and bunk with me," he urged his friend as they separated. "No matter what old time it is. If I'm not there, just go ahead and make yourself at home. I'll be sure to turn up before daybreak."

Soon after this the salesman arrived in town about midnight, and, remembering his friend's invitation, sought out his boarding-house. There was only a dim light flickering in the hall, but he gave the bell a manful pull. Presently he found himself face to face with a landlady of grim and terrible aspect.

"Does Mr. Smith live here" he faltered. "He does," snapped the landlady. "You can bring him right in !"

A French lady living in London engaged a carpenter to do some work for her at a stipulated price. She was surfind that he than the price agreed upon. When she attempted to remonstrate with him, however, her English failed her, and she said, You are dearer to me now than when we were first engaged."

THE FARMER'S ADVOCATE.

GOSSIP.

ORMSBY GRANGE STOCK FARM. It was with much pleasure and confidence that a few months ago was reported, through these columns, the advent of Dr. D. McEachran as engaging in the business of importing and breeding Clydesdale horses. Few men in public life in Canada have been so long in the limelight of public opinion and retired with so much honor and so little adverse criticism. For about a quarter of a century Chief Veterinary Inspector for the Dominion, he it was who inaugurated the live-stock quarantine of Canada, and moulded the Contagious Diseases of Animals Act, that have kept our herds the cleanest from disease of any country on the face of the earth. And, not the least important by any means, he so regulated his machinery of inspection as to cause the least possible friction among all parties concerned. A few years ago he found the duties of that office too arduous for his advancing years, and placed his resignation in the hands of the Minister of Agriculture. Since then he has been looking around for a suitable location to establish a stock farm on a scale commensurate with his own ideas of what a stock farm should be, and he finally de cided to locate at Ormstown, Que., about 47 miles south of Montreal, where he purchased several hundred acres of land of a texture particularly adapted to stock raising. At the time of a visit of "'Farmer's Advocate'' representative a few days ago, a large gang of men were at work erecting commodious stables, which, when completed, will be equipped with electric light, and all modern improvements, making them second to none in Canada. A few months ago the Doc tor journeyed to the home of his birth, and selected and brought out his first importation of Clydesdales. There is no man in Canada that knows a Clydesdale horse better than Dr. McEachran, and his many friends that expected to see him land something extra choice, were not disappointed, although we were not privileged to see them all, as several had een sold before our visit. We are free to say, however, that anyone wanting show animals in Clydes, can get them in his stables. There were only two stalions left, Selborne (14363) [8564], a bay three-year-old, sired by Pride of Blacon, dam Sibyl Grey, by Orlando, grandam by Superior. This colt is a half-brother to Acme (by Baron's Pride), being out size, of a grand style and quality from

of the same dam. He is up to a big the ground up, a horse that has only to be seen to be appreciated. The other is Doctor Jim (14094) [8563], a bay threeyear-old, by Pride of Blacon, dam by Prince MacGregor, grandam by Prince of Kyle. Although not so large as the other, he is an intensely sweet horse, of superb quality. In fillies, there are six n hand. Linlithgow Lass, is a bay five-year-old, by Everlasting, dam by Everard. She is right royally bred, and is a right royal mare. She won several firsts and championships in Scotland, and certainly is one of the best Clyde mares in Canada. She has a filly foal at foot, by Sir Hugo. Mary o' Argyle is a bay three-year-old, by Knight of Angus, dam by William the Conqueror, grandam by Prince of Kintore. She is a big filly, of grand character, on the best of bottom. Kintore Belle, is another bay threeyear-old, by Gartley Cashier, dam by Florizel, grandam by Gay Everard. Kintore Daisy is a brown three-year-old, by Broomberry, by Hiawatha, dam by Superb, grandam by Sir Everard. Bess of Knockstable is a bay three-year-old, by Gartley Cashier, by Prince Thomas, dam by Gregor MacGregor, grandam by Prince David. Kintyre Peggy is also a bay three-year-old, by Knight of Angus, by Knight of Cowal, dam by Right at Last, grandam by Tinwald Grange. It will be seen from the above that from a breeder's standpoint, Scotland's richest blood is represented in these fillies, and their individuality is all that could be desired, as they combine size with quality and character. Any of these mentioned are for sale.

Rowan Hill Shorthorns The 1908 Toronto grand champion, Royal S spring bulls and a few heifers, sired by him, and out of show cows. These are choice young things that are sure to please. R. F. DUNCAN, Carluke P. O., Ont. Caledonia Station, G. T. R., or station 13 Hamilton and Brantford Electric Road.

Shorthorns and Shropshires SHORTHORN BULLS PRICED Herd headed by Imp. Queen's Counsellor = 64218= (96594). For sale : Three young bulls; also cows and heifers bred to Queen's Counsellor. The Shropshires are yearlyng rams and ewes, bred Red, two years old, from a good imported cow Red and White, thirteen months, out of Lady Madge, by Langford Eclipse, price \$75. from imported Buttar ram. H. L. STEAD, Wilton Grove, Ont. JOHN MILLER, BROUGHAM, ONTARIO. London, G. T. R., 6 miles ; Westminster, P. M. R., 1 mile. Long-distance phone. CLAREMONT, STATION, C. P. R. VALLEY HOME SHORTHORNS AND BERKSHIRES For sale: 6 grand young bulls from ten to eighteen months old, young cows with calves at foot, and ten one and two-year-old heifers. All our own breeding. Some are very choice show animals. Also young sows, and a fine boar 12 months old. S. J. PEARSON, SON & CO., MEADOWVALE P. O. AND STATION C.P.R

Imported Bull! To save inbreeding I will sell the Cruickshank (Duthie bred) imp. bull, Sittyton Victor =50093= (87397), a proven sire of merit, gentle and active. Also some young bulls by him, out of imp. dams. Address: dams. Address : John Brydone, Milverton, Ont. WM. GRAINGER & SON. Londesboro, Ontario.

Shorthorns For Sale: 2 young bulls and 10 heifers, sired by Aberdeen Hero (imp.) = 28840=. Some bred to the Lavender bull, Lavender Lorne = 68706=.

HAWTHORN HERD

OF DEEP-MILKING

During the Busy Season If you need a Shorthorn bull we will ship one on approval, and if you are not suited you may ship him back. Write us for terms and conditions. Just two ready for service. Both Cruickshank Lavenders.

Long-distance telephone.

MAPLE SHADE FARM. STATIONS: } MYRTLE, C. P. R. BROOKLIN, G. T. R. JOHN DRYDEN & SON, BROOKLIN, ONT.

Scotch Shorthorns Canada's greatest living sire, Mil-dred's Royal, heads my herd. For sale are young bulls and heifers, show stuff and Toronto winners, out of Stamford, Lady Ythan, Claret, Emeline, Matchlees and Belona dams. A visit will be appre-ciated. GEO. GIER, Grand Valley P. O., Ont Waldemer Sta., C. P. R. Jone Valley P. O., Ont



SPRING VALLEY SHORTHORNS Greengill Shorthorns ! One 14 months' old imported bull, bred by A. M. Gordon. Good enough to head any herd. Five Canadian-bred bulls from 12 to 16 months. Will be priced very reasonable, as we do not want to run them over. KYLE BROS., AYR, ONT.





Farm, the Sons, Howof imported in numbers, nal demand h. In the great was last year's was left, ear-old son by Baron's very thick, the cartity hottom. m had sent nery's stud. on Craigie. commanding ighout, has os., of Desection for services of er was Visear-old, by pe, quality y be heard fall. Mr. id making nportation. on the fall

The first food of the day.

Every man, woman and child begins the day with more or less vigor of mind and strength of body according to the first food supplied to the stomach. The best first dish of the day is a bowl of Quaker Oats. The stomach can assimilate it more quickly and with less effort than other foods. There is little or no waste and every ounce of food is converted into muscle, vigor and brain activity. The strongest people in the world are the regular eaters of Quaker Oats. You should eat it for breakfast every day. Loyal Canadians are proud of this great industry. The mills are at Peterborough.

If you are convenient to the store you'll probably buy the regular size package. For those who live in the country the large size family package is more satisfactory. The large package contains a piece of handsome china for the table.

NOT BOASTFUL.

Stranger—"This village boasts of a choral society, doesn't it?" Resident— No; we just endure it with resignation."



B. H. BULL & SON.

BRAMPTON, ONT.

Don't Judge a Roofing By Its Looks

It is this gum which gives Ruberoid

all the flexibility of rubber without con-

taining an iota of it. It is this gum which withstands wind, weather, sun,

fire, acid, gases and fumes, where all

It is this gum, in the Ruberine cement

which accompanies each roll of Ruber-

oid roofing, which makes ours prac-tically a *one-piece* roofing—sealed against leaks — sealed against the

Ruberoid comes plain and in colors.

The attractive Red, Brown and Green

Ruberoid are fine enough for the cost-

liest home. And the color feature is

In the past twenty years we have had

experience not only with all ready roof-ings, but with other roofings—shingles,

We Test All Roofings

Each roofing we have exposed to the

The result of these twenty years of

tests we have written into a book

weather test, on our roof garden at

exclusive-protected by patents.

tar, tin, iron and other roofings.

other compounds fail.

weather.

On the surface, most ready roofings look the same.

1092

But the weather finds the hidden weakness.

The weather finds the vegetable fibers in the fabric and rots them.

The weather finds the volatile oils which are concealed below the surface. The sun draws these oils, in globules, to the top of the roofing, where they evaporate in the air.

Where there was a globule of air, there remains a hole. And behind each hole is a tiny channel which lets the weather and water into the very heart of the roofing.

When the sun and the wind and weather have sought out the hidden weaknesses, the roofing is porous, in-stead of solid; watersoaked, instead of waterproof.

You can't tell by looks, which roofing will last twenty years, and which will go to pieces in a single summer.

Seventeen Years of Service

But you can do this: You can tell the original Ruberoid roofing-the only roofing which *has* lasted seventeen years—from the 300 substitutes which have proven their unworthiness.

Ruberoid was the first ready roofing. Its basis is the best ted with Ruberoid gum.

It is this wonderful flexible gum which no other maker can duplicate.

Be sure to look for this registered trademark Be sure to look for this registered trademark which is stamped every four feet on the *under* side of all genuine Ruberold. This is your protection against substitutes which many dealers brazenly sell as Ruberold. Ruberold is usually sold by but one dealer in a town, We will tell you the name of your Ruberold dealer when you send for our free book.

Ltd., Montreal. The Standard Paint Company of Canada, Ltd., Montreal, Canada

New York Hamburg London Paris



Large Improved Yorkshire Pigs from imported sires and dams, now ready to ship.

Stoneycroft Stock Farm, Ste. Anne de Bellevue, Que



STORY OF MESSENGER. When Messenger landed in the United

GOSSIP.

States on May 16, 1788, the history of the trotting horse began. A flame was kindled that has never gone out. Messenger's light will never fade away, and any facts connected with the horse are always interesting to horsemen. For many years there was a doubt

about the place where Messenger was landed. It was claimed by some that he landed in New Jersey; others insisted that New York was the place where the horse first set foot on American soil, while others claimed that Philadelphia was the city in which he landed. The last-named is right, for in the Pennsylvania Packet and Advertiser of May 17. 1788, there is an account of the arrival at Philadelphia of the brig Dove, with assorted cargo, and the stallions Messenger and Governor, from Liverpool.

In a copy of the same paper, June 15. 1788, is an advertisement of a stallion bill, stating that the gray stallion, inported Messenger, would stand for servce during the season of 1788, at the Black Horse Tayern Stable, on Market street, near where Twelfth street is now, at a fee of \$10 for the season, and \$1 each for the groom. In 1789, the same paper contained an ad, that the horse would stand at William Cook's stable. on Lombard street, Philadelphia, at the same terms. The third season, 1790, the horse was at Cooper's Point, N. J., opposite Philadelphia.

The fourth season he was at Neshaminy Bridge, near Bristol, Pa.; his fee was \$15. From 1791 until 1808, he was Prinsylvania, New Jersey and New York. The seasons of 1798, 1805 and 1806, he a farm near where High Bridge is now. Oyster Bay.

January 28, 1808, Messenger was found dead in his barn. Doubtless he died from old age, being twenty-eight years old. Such was the estimation in which the horse was held that the news of his death spread like wildfire throughout that part of the country. Hundreds flocked to see the last of the great hero. His grave was made under a large chestnut tree, the grave lined with cedar plank. The great size was dressed in his holiday attire. He was loaded on a stone drag.

A military company, with a band of procession, and followed the monarch of sires to his last resting place, where he colley after volley of musketry was fired over his grave. A headstone was placed in his grave with the inscription. "MesFOUNDED 1866

cropped out in Messenger, and probably started in Samson.

Messenger had no great reputation while in England, and his star did not commence to shine in the United States for some years after he arrived there. Messenger had been in America but a short time when the Pennsylvania Legislature passed a law prohibiting racing. That compelled those owning horses to keep them for road purposes. About that time the country roads growing better, and road wagons being made lighter, trotting came into fashion, and the wonderful trotting speed of the Messenger family was discovered. It seems to have been more a matter of accident than anything else that Messenger was found to be a

Henry Arkell & Son, Arkell, Ont., "Everything is looking fine at write . Farnham Farm. The Oxfords were never in better shale. Notice our advertisement, which appears in this issue. We are not intending to exhibit anywhere the present year. We are importing a few rams for a little fresh blood, 'as usual, and parties wanting flock-headers, or rams for show, would do well to order early-either yearlings or ram lambs-as we have a number of good

John McFarlane, Dutton, Ont., writes: "I am highly pleased with your paper, having recently sold, through my advertisement, the three following young Shorthorn hulls To Mr. Minor, Ronson, Mc-Rae, a very choice animal; to W. H. Mc-Allister, McGregor, which comes of a very kept at various places in the State of time mulking strain, and to James French, Scotty, which gives promise to make one of the finest I have ever bred. I have on hand a number of nice heifers, due to Townshend, Cook's farm. His fee had calve shortly. They are sired by Royal been raised to \$45. In 1807, he was at Prince (imp.), and their calves will be by Protector (imp.) I also offer a beau-

> George G. Stewart, of Howick, Que, the well-known importer of $\operatorname{Clydesdale}$ horses, reports a more than successful season's trade, having disposed of all his 1908 importation some time ago, and still the inquiries come along, asking, what have you on hand in Clydesdales? To his many friends and patrons, he wishes to say that he intends to sail in a tew days for Scotland, to select another importation, and assures the public they will be quite up to, or surpass, any previous importation he has made, both tor size, quality, character, and breeding. Look out for his announcement in these

In the three days' butter test at the Bath and West of England Show at Exeter last month, Mr. Smith-Barry's Jersey cow won the first award and gold medal for cows of any breed or cross under 900 lbs. live weight. Her milk yield, 163 days after calving, was 140 award went to a Lincoln Red cow, whose yield, 45 days after calving, was 212 lbs. averages of the cows competing, reduced to one day, were 16 Jerseys, 116 days after calving, 33 lbs. 31 ozs.; butter, 1 Ib. 11; ozs.; ratio, lb. of milk to lb. of butter, 19.14. One Guernsey, 368 days after calving milk, 36 lbs. 14 ozs.; butter, 1 lb. 94 ozs., ratio, 23.36. Three Lincoln Reds, 53 days after calving milk, 60 lbs, 5 ozs.; butter, 2 lbs, $3\frac{1}{4}$ ozs.; ratio, 27.18. One Devon, 119 days after calving, milk, 35 lbs. $7\frac{1}{4}$ ozs.; but-ter. 1.6 $\frac{1}{15}$ ratio, 24.84. Five South Devons, 80 days after calving: milk 51 36.26. These averages were reported as up to the usual standard, showing that a one day's test may be accepted as re-



our factory.

information, telling about the advantages and disadvantages of each roofing for each purpose. To secure a copy, address Dept. 98F The Standard Paint Company of Canada,

> Messenger was a dapple gray, 15.3 hands high; large, bony head, with large ears, a splendid hazel eye, short, thick and quarters, very large hocks, and knees perfect; clean legs. Whether in motion

> improvement of running stock. Where note Engineer was by Samson, a thick.

TRADE TOPIC.

Balmy Brach College and School of Music and Art. East Toronto, Ont., is situated iour miles east of the city, and has direct street-car service. It is not on'y a favorite summer resort, but a permanent residential section, while easy of access to the advantages of city life. The teaching staff is strong and efficient, and the object of the college is to deinclination to trot, perhaps it was velop each pupil physically, mentally and ecause they had no chance to do so morally. See the advertisement in this -D 1866

tic: while not com-Status for re. Mes-t a short legislature g. That is to keep bout that ng better, le lighter, the won-Messenger ohavebeen anything to be a

sell, Ont., og fine at were never advertise-ssue. We anywhere porting a blood, 'as ck-headers, o well to or ram r of good fams.

t., writes: nur paper, my advermy adder-ung Short-onson. Mc-W. H. Mc-s of a very ues French, make one make one That have one is a line of the second second

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est at the Show at ith-Barry's 1 and gold 1 or cross Use milk Her milk $w_{\rm HS} = 1.40$ cow, whose as 212 lbs. ozs. The ng. reduced 116 days to lb. of 368 days ozs.; but-36. Three calving:
 2 lbs. 34
 119 days
 ozs.; but-live South
 milk 51 reported as owing that oted as reJULY 1, 1909



Cure the lameness and remove the bunch without scarring the horse-have the part looking just as it did before the blemish came. Fleming's Spavin Cure(Liquid)

rieming S Spavin Cure(Liquid) is a special remedy for soft and semi-solid blemishes — Bog S pavin, Thoroughpin, Splint, Carb, Capped Hock, etc. It is neither a liniment nor a simple blister, but a remedy unlike any other -doesn't imitate and can't be imitated. Easy to use, only a little re-guired, and your money back if theyer falls. Flowing? Vice P-1-4 Fleming's Vest-Pocket

Veterinary Adviser describes and illustrates all kinds of blem-ishes and gives you the information you ought to have before ordering or buying any kind of a remedy. Malled free if you write. FLEMING BROS., Chemists 75 Church St., Toronto, Ontario

CAIRVIEW The greatest A. R. O. herd of HERD HOLSTEINS in northern New York. Headed

the second s

in northern New York. Headed by Pontiac Korndyke, the greatest sire of the breed, having five daughters whose seven-day records average 29'4 pounds each, and over 4.3% fat. As-sisted by Rag Apple Korndyke, a son of Pontiac Korndyke, out of Pontiac Rag Apple, 31.62 pounds butter in 7 days, and 126.56 pounds in 30 days, at 4 years old. Cows and heifers in calf to the above two bulls for sale, also young bulls sired by them out of large-record cows. Write, or come and in-spect our herd. E. H. DOLLAR, Heuvelton, St. Law. Co., N. Y., near Prescott, Ont.

MAPLE GLEN For sale: Only 1 bull, 11 months Holsteins et al. (1997) and the state of the sale of the state of the sale of the

BUSINESS HOLSTEINS! Over 60 head to select from. Milk yield from 60 to 85 lbs. a day, and from 35 to 47 lbs. a day for 2-yr.-olds, There are 10 2-yr.-old heifer ers, 8 1-yr.-olds, and a number of heifer calves. Bulls from 1-yr.-old down. Priced right. Truthfully described. W. Higginson. Inkerman. Ont.

described. W. Higginson, Inkerman. Ont. Sunny Hill Farm for sale at present. Eggs from choice White Rocks and Buff Orping-tons, one dollar per setting. DAVID RIFE & SONS, Hespeler Ontario. Waterloo County, C. P. R. and G. T. R. DONNT Buy a HOLSTEIN BULL till you get my prices on choice month old, from best produc-ing strains. "Fairview Stock Farm." FRED ABBOTT, Harrletsville Ont. The traveller in Arkansas exhibited a

The traveller in Arkansas exhibited a peculiar nervousness on seeing the longlegged slim, fierce-looking hogs that roamed at will over the country. At length he asked a native sitting on a fence by the rondside . "Aren't these rayorback hogs rather dangerous?" "I never heard of none of them doing any harm." remarked the native. "I think they must be safety razorbacks."

Mark Twain, at a dinner at the Authors' Club said "Speaking of fresh eggs, I am reminded of the town of Squash In my early lecturing days I quash to lecture in Temperance Hall, arriving in the afternoon. town second very poorly billed. thought I'd find out if the people knew So I turned in at the gen-

THE FARMER'S ADVOCATE.

QUESTIONS AND ANSWERS. Miscellaneous.

SILO QUESTIONS-BOARD VER SUS HOUSE RENT.

1. A new barn is built so that a silo could be built about 12 feet under ground and he perfectly dry. Would you consider this a good policy "

2. How would you advise building a silo to keep 25 head of cattle 2

3. We were thinking of building a silo on another place where we intend to keep about 18 or 20 fat cattle. What

4. A hires with B for nine months for \$190 and board. In three months A gets married. What wages would you consider equivalent, if A gets a house and garden from B and boards at home ? 5. What wages would you consider equivalent for a year. A to look after stock, cub wood, etc., in winter, and hoard home, to \$225 and board. A get-

Ans -1. Yes, providing the bottom of the silo is not more than three feet be-low the level of the floor on which the silage has to be thrown out in feeding. Unless the silo has a roof, a drain should be provided to carry off the surplus

2. We infer that our inquirer desires to now how large, what shape, and of what material, we would advise him to and coarse, clean sand, are available, and build cement, either monolithic or cement block. As for size, allowing 35 lbs, of silage per head per day for a feeding period of 200 days, 87 tons of good silage would be required, or, say, 90 tons, allowing for waste. A round silo, 30 feet deep, with an inside diameter of 13 feet, if filled, settled, and refilled once or twice, should hold the requisite amount. But as a silo greatly increases the stock carrying capacity of a farm, you will protably soon he keeping enough cattle to take care of the contents of a silo 11 feet by 30 feet, which is a very good size to build. The above calculation has been based on the assumption that most of the cattle are mature, or nearly so, 3. The information is inadequate to termit of a satisfactory reply. The length of the feeding period, arrangement of buildings, and probable future disposition of the place, are all factors in the case. Count on 35 to 40 pounds of silage per head, calculate the contents of the contemplated silo in cubic feet, using



The Maples Holstein Herd ! | HOLSTEINS and YORKSHIRES

RECORD-OF-MERIT COWS.

FOR SALE

For Sale: Only thrifty bull calves from 4% R. O. M. cows; some will make great herd headers and show animals. Write for prices and description. Station on the place. M. L. & M. H. HALEY, Springford, Ont.

BURNLEY POINT HOLSTEINS!

Special offering : Am now offering for first time my stock bull. Sir Mercedes Teake (7489), champion bull at Toronto and London, 1908. Can no longer use him to advantage, as I have twelve of his daughters in my herd.

1093

G. W. CLEMONS, ST. GEORGE, ONT.

Holsteins also a few young cows and heifers for sale. THOS. HARTLEY, DOWNSVIEW, ONT. 3 thrifty bull calves for sale, 8 months old. They are choice ones. Also 1 three-year-old bull. WM. BATTY, CLARKSON, ONTARIO

Cures Without Drugs Wonderful Invention Restores Health by Nature's Method.

There's no need of ruining your stomach by doping it with drugs, try-ing to overcome pain or some chronic ailment. No need of doctor and drug bills, for here is a remedy that cures in Nature's way.

in Nature's way. Most of the ailments of mankind are due to the failure or breaking down of the stomach, kidneys, liver, heart or digestive organs. When one of these organs fails to work properly, something happens; pain, disease or various chronic ailments result.

than I ever was before. I have gained over fourteen pounds since I started to use your Belt, and I believe it has done great things for me. I can say to anyone else needing the use of your Belt that it will bring them to their natural health and strength again. A. S. PARTRIDGE, Monkton, Ont

If you are skeptical, all I ask is reasonable security for the price of the Belt, and you can

School of o. Ont., is a city, and It is not but a perbut a per-ile easy of f city life, and efficient, is to de-entally and ent in this ider. the general store keeper. 'Any entertainment here to-night to help a stranger while away his evening 2^*

The general storekeeper, who was sorting markerel, straightened up, wiped 'I expect there's goin' to be a lec-

-1 neen sellin' eggs all day.'''

HT'S DISE R23 THE PRUM radius multiplied by the height, and diide by 50, to get the approximate cafacity in tons, as 50 cubic feet of average settled silage will weigh a ton, though in a 30-foot silo a ton will not

1 and 5. Ten dollars a month should be a fair allowance for board, against which there is to be set whatever may be a fair rent for the house and garden. For rovided for tenants, with a snug vegethe summer. In winter, when the tenant has no use of the garden, the value would

GOSSIP.

Volume 16, of the Clydesdale Studbook of the National Live-stock Record Asso-

organ breaks down or fails to down of fails to work properly is because it lacks motive power – electricity. That is proven. Now to cure pain or disease you must find the cause disease you must find the cause and remove it. If it is caused by a lack of electric energy, restore that force where it is needed and pain and sickness will

needed and pain and sickness will disappear. That's my method. That's Nature's method. Electricity builds up, supplies strength—nourishment to the body. Drugs destroy, tear down, because they contain poison instead of nourishment. Of course, they can force an organ to act, but that organ is weaker after the effect of the drug has passed off. Drugs stop pain temporarily by stupefying the nerves, but the pain comes back and you have to take the drug again. Every dose weakens the nerves.

My Belt pumps a stream of electric ife into every nerve and tissue of the body, building up vitality and drength and removing the causes of disease

It does not shock or blister. The only sensation is a soothing glow.

Electro-Vigor has proven a great success. It has cured people all over the Dominion whom drugs had failed to benefit.

Dear Sir.—I am glad to say that I feel in good health and am stronger



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which tells all about my treat-ment. This book is ill ustrated with pictures of fully-developed men and women, showing how electricity is applied, and explains many things you want to know. I'll send the book closely seeled and preneid free

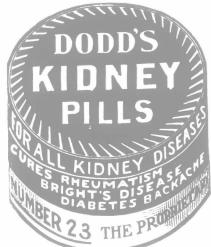
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1094		S ADVOC			
		Ontario Fall	Fall Dates.	McDonald's Corners Massey	Sept. 23 andOct.
	e Swine	Deflowing is a lis	t of fair dates fur-	Manitowaning	Sept. 30 and Oct.
Hampshire		nished by the Super-	intendent of Agricul- ral Societies for On-		Sept.
	the type. The breed that	the Thous interes	sted would do well to	Mt. Forest	Sept. 21 and Sept. 23 and
	breeding cyper in suc-	preserve the list, as	it will not appear		Sept. 28 and
ANC.	United States. We offer for	Ancester	Sept. 28 and 29	Middleville	Sept. 20 and
		Alexandria	Sept. 20 and 20	Merecen	Sent. 29 and
	Call on or address :	Alvinston	OCC. 5 and	RECORDER	Sept 30 and Oct.
		Alliston	Oct. 5 and 6 Oct. 7 and 8 Sept 6 to 10 Sept. 28 and 29 Oct. 5	Mo reheld	Sept. 23 and
	A. O'NEIL	Aylmer		Merlin	Sept. 30 and Oct. Oct
A STREET SLOW		Aborfoyle	and the second se		Sent 21 and
V CARTER ALL TO THE REAL	Birr, Ont,	Ashworth	Sept. 22 and 23	New Liskeard	Sept. 16 and
The second state of the se	Birr, Ont.	Amherstburg	Sept. 22 and 23 Sept. 22 and 23 Oct. 5 and 6 Sept. 20 and Oct. 1	Newboro	
		Acton	ANALY AND A	and the second second	Sept. 16 and
3600	r sale : Young sows bred to far-	Bruce Mines		NOT WORKED.	Sept. 14 and
White white	vin may and joint, where the second s	Burk's Falls		Niagara	Sept. Sept.
Yorkshires	r.R. Joshua Lawrence,	Brigden	Saur 30 and Oct. 1	Orangeville	Sent 23 and
0x1					Sept. 29 to Oc Sept. 27 and
Am offering during this month a good lot of young boars ready for service, young	Yorkshires. One stallion rising three years,		Sept. 27 to 29 Sept. 28 and 29	Oakwood	Sept. 14 and
sows of breeding age, and a choice for by i	imp. Hopewell. I wo young buils to two years.		Oct 5 and 0	Udessa .	Oct Sept. 10 to
	rkshires of both sexes. W. H. TRAN, Cedar ove, Ont. Locust Hill Sta., C. P. R.	and the second second second	Sept. 22 to 24	()ttawa	
		Berwick	Sept. 9 and 10 Oct. 4 and 5		Sept
1. J. DAVID, WOODCOOT,	AND CLYDESDALES. Fresent ontening 3, 4	Brockville	Sept. , to .,	Owen Sound	Oct. 7 am
	d 5 months old respectively, and bred again; a	Blenheim	Oct. 6 and 7 Sept. 21 and 22 Sept. 30 Sept. 29	Orono	Sept. 13 and
Ducks, SC. W. Legnorns. to 5	5 months old, also a few really good sows bred ring April and May. A. A. COLWILL, NEW-	Burlington	Sept. 30	Orillia Priceville	Oct. 7 and
Tamworths of excent of the at Toronto and Lon- CA	STLE, ONT.	Baysville Brussels	Sept. 30 and Oct. 1	Pt. Carling	Sept
don, 1905-6-7-8; winnings at world's rand, and two	Morriston Tamworths, orthorns and Clydesdales.	Belwood	Oct. 5 and 6	Powassan	Sept. 28 and Sept. 23 and
grand championships. Apply to . Tai	mworths from Toronto winners.	Beaverton Brighton		Palmerston	Sept. 28 and
D. DOUGLAS & OCHON	d ready to breed. Pairs not ann.	Brighton Bradford	Oct 19 and 20	Ferth	Sept. 1 t Sept. 29 to Oc
OUFOTED WHITES	Schaw Sta., C. P. R.	Blyth	Oct. 4 and 5	Parry Sound Petrolea	Sept 23 to
City inht type Apply to:	"Why does Penyrn call his coming novel Scrap Book"? "	Binbrook Carp	Sent 30 and Oct. 1	Parl hill	Oct 5 at Sept
of the right type. Apply 0. A	"Because it is a story of married life."	(larks)urg	Sept 30 and Oct. 1 Oct. 5 and 6	Pinkerton Rockwood	()et. 7 a [,]
DANIEL DE GOORGT, BORNINGEN, ONTINE P	W. Star	Cookstown	Sept. 23 and 24	Rainhau	Oct 1 a
Monkland	Yorkshires We are offer- ing 30 sows from 1½ years	Cohourg	Sept. 22 and 23 Sept. 27 and 28		()(
	All lange and excellent sows-proved	Castleton Comber	Oct. 5 and 6	Rodney	Oct i ar Oc
to syears old that have had themselves good mothers.	Bred again to farrow in July and August. Also n August. Jas. Wilson & Sons, Fergus, Ont.	Caledonia	Sept. 30 and Oct. 1 Sept. 16 and 17		Sept. 21 0
While States and State		Chatsworth Campbellville	Oct. 12	Rockton	Oct. 12 and Sept 27 to
Willowdale Berkshires!	UNNYMOUNT BERKSHIRES	Presden	Sept. 30 and Oct. 1 Oct. 7 and 8		()ct. 7 at
Won the leading honors at Toronto	ighest standard of type and qual- y. For sale: Sows of all ages,	Dundalk Delta	Sept 27 to 29	Richard's Landing	Sept Sept
last fall. For sale are both sexes	nd 4 yearling boars. A grand, ood lot. Also younger ones. Pairs	Drumbo	Sept. 28 and 29 Sept. 21 and 22		Sept 27 t
Byerything guaranteed as repre-	ot akin. JOHN MCLEOD,	Dunville Durham	Sept. 21 and 22	Spencerville	Sept. 28 and Oct 4 at
AND STATION. C. P. R. AND G. T. R.	P.R. & G.T.R. Milton P.O., Ont.	Delaware	Oct. 20 Oct. 6	Sundridge Sturgeon Falls	Sept. 22 an
OHIO IMPROVED CHESTER WHITES Lare:	OUROC-JERSEY SWINE	Dorchester	Sept. 28 and 29	Shelburne	Sept. 28 au
est strains. Oldest-established registered here	mported and home-bred. Sows ready to breed soars fit for service, and younger ones either sex.	Embro	Oct. 7	Sault Ste Marie	
the data and Pairs furnished not akim.	lso Embden geese. MAC CAMPBELL &		Oct 11 and 15	Surrucedule	Sept. 27 an
weaks to 6 months ont. I want the total to a A	ONS. HARWICH, ONT.	Emsdale		Sprucedale South Mountain	Sept. 9 an
weeks to a month's old. Pedigrees and safe de- Rxpress charges prepaid. Pedigrees and safe de- livery guaranteed. E. D. GEORGE Putnem, Ont. So	ONS, HARWICH, ON I.	Erin Emsdale Essex		Sprucedale South Mountain Smithville	Sept. 9 an Sept. 23 an Oct. 12 t
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Southowns Southowns	tor especially-fitted sheep. Your choice of early that prizewinning Canadian-bred ewes, and by Champion wether at Chicago, 1907. Twenty of last year's lamb crop, also for sale.	Erin Emsdale Ussex Elmvale Florence	Oct. 14 and 15 Sept. 30 Oct. 4 to 6 Oct. 7 and 8 Sept. 14 and 15	Sprucedale South Mountain Smithville Simcoe	
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THE SPICE OF LIFE.

In answer to the question, "What pasages in Holy Scripture bear upon cruelty o animals?" one boy said : "Cruel peode often cut dogs' tails and ears, but the Bible says, "Those whom God hath ouned together let no man put asunder."

The teacher of elocution was nearly discouraged. He urged his pupils, in some excitement, to put more expression into their recitations. "Too flat !" he exclaimed. "Too colorless ! You can do better than that. Try again. Now ! open your mouth and throw yourself into

limmie was ordered to put eggs under an old clucking hen. He did his work all right, and during the conversation next morning, the fact came out that he had put thirty-five eggs under her. His mother said : ... "Johnnie, don't you know that a hen can only cover fifteen or sixteen eggs ?'' ''I know that,'' said Johnnie, ''but I just wanted to see the old thing spread herself."

"The editor of my paper," declared the newsfafer business manager to a little coterie of friends, "is a peculiar genius. Why, would you believe it, when he draws his weekly salary, he keeps out only one dollar for spending money, and sends the rest to his wife in another city.

His listeners-with one exception, who sat silent and reflective-gave vent to loud murmurs of wonder and admiration. 'Now, it may sound thin," added the speaker, "but it is true, nevertheless."

"Oh, I don't doubt it at all !" quickly rejoined the quiet one; "I was only wondering what he does with the dollar !"

A superstitious farmer, opening his farm tater, noticed that a spider had been crushed to death between the pages. He wrote in some alarm to the editor, inquiring whether the incident betokened good or bad luck, for he was a confirmed believer in signs. The editor replied that the finding of a dead spider in the paper could not be regarded by the farmer as a sign at all, that the circumstances of the fatality indicated that the insect had met an untimely death, and the only deduction possible was that the spider had been scanning the advertising columns of the paper to find out who wasn't advertising, in order to get next to some dead business house, spin his web across its door, and live in peace forever after.

"One day," related Denny to his friend Jerry, "when Oi had wandered too far inland on me shore, Oi suddenly found that there was a great big haythen, tin feet tall, chasin' me wid a knife as long as yer arm. Oi took to me heels an' for lifty miles along the road we had it mp an' tuck. Thin Oi turned into the woods an' we run for one hundred an' twinty miles more, wid him gainin' on me steadily, owin' to his knowledge of the counthry. Finally, just as Oi could feel his hot breath burnin' on the back of me neck, we came to a big lake. Wid one great leap Oi landed safe on the opposite shore leavin' me pursuer confounded and impotent wid rage.'

THE FARMER'S ADVOCATE.

Send Now For Free Book sample

"For more than five years I have been experimenting with our experts to find the BEST culvert for all-

> round uses. We sought the markets of the world for one that was just right; and we didn't find it. If we had, we'd have

patent rights for Canada. Finally, last spring we struck the idea. Then we put in some expensive months in making that idea better, -and NOW we've got a culvert that is so far ahead of any other there's no comparison."

"You'll read something about it here; but to KNOW how 'way-ahead it really is, you'll want to see the sample (sent free) and read the booklet (free, ditto). With that before you, you will soon see why every Reeve, or Warden, or Town Councillor, or anybody who has any use for culverts at all,-will find it pays to get in touch with me right NOW. I am asking you to lay aside your notions of what makes a good culvert, and a cheap culvert, and find out about this NEW culvert. I don't expect you to buy a foot of it until it PROVES to you that Pedlar Culverts are in a class by themselves, and that you can't afford to overlook them. Let us start that proof toward you soon-address nearest Pedlar place."

9. H. Pedlar

A structure like this, with PedlarCulvert. bought the won't wash

out nor need repairs.

Learn about the strong est, most practical, most durable and easiest-laid culvert ever made--that's

Perfect Corrugated



A few hours' work and a few dollars will put a modern and permanent culvert in place of a ramshackle bridge. Easily laid by anybody.

Made of Special Billet Iron, Extra Heavy In every size of Pedlar Culvert, which comes in all standard diameters from 8 inches to 6 feet, we use nothing but the best grade of Billet Iron, specially made for us, of extra-heavy gauge (14 to 20

gauge, according to the diameter). This Billet Iron is curved into semi-cylinders-curved COLD, so there will never be any variation from exact dimensions; and it is then deeply and smoothly corrugated on a special press that puts a pressure of SIXTY TONS on every square inch of the metal. The corrugations, therefore, are uniform and very deep.

Galvanized After Being Pressed Up

When the corrugating process is done, the sections are galvanized by our exclusive process that covers the entire surface with a thick coating of zinc spelter. Every edge, every crev-ice, is heavily coated with this rustproof, corrosion-proof galvanizing, not a spot is left unprotected. This is the only culvert galvanized after being shaped. Is absolutely Rust-proof.

Will Stand Incredible Strains

The heavy-gauge Pedlar Billet Iron sections, deeply corrugated and locked together without bolts or rivets by our compression triple-rib (this rib is flat-not corrugated), make a culvert that will stand formous crushing strains and neither give nor spring. A thin cushion of soil on top is all the protection such a culvert needs against traffic; and no special precautions need be observed in laying it,-it will stand what

Compact—Portable Easily Laid Pedlar Culverts are



Half-sections nested for shipment ported anywhere.

Note that the ribs are flat, and the curved part of the cylinder deeply corrugated. These ribs add vastly to the culverts' strength.

Sections in course of

"Faith an' thot was no great jump," commented Jerry, "considerin' the runnin' st rt ye had."

the play was one of Shakespeare's tragedies. Mrs. Simmons and her little hos having been unable to secure seats in the parquet, were well located in the front row of the first balcony, where they could see better, and hear almost as well as i they had been further forward on the main floor.

Simmons was agreeably surprised at the interest that Bobby appeared to take in the sombre drama. He sat leaning torward, with his elbows on the cushioned railing in front of him, resting his head on his hands, deeply absorbed. As tain went down on the first act h whtened up.

dear, how do you like Shakeasked his mother. "Are you SLA the play?

' said Bobby, with the air of has made a great discovery, re sixty-nine men here that have ROI -pots on the top of their heads! ed them five times !''

no other culvert can.

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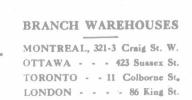
The sages of the general store were discussing the veracity of old Si Perkins when Uncle Bill Abbott ambled in. "What do you think about it, Uncle Bill " they asked him. "Would you call

Si Perkins a liar?' "Wall," answered Uncle Bill slowly, as he thoughtfully studied the ceiling, "I

An old darky wanted to join a fashion- "I'm stone deaf, your honor," declared able city church, and the minister, knowto go home and pray over it. In a few

days the darky came back. "Well, what





CHATHAM - 200 King St. W.

a prisoner in the dock at the police court ing it was hardly the thing to do, and the other day, "I didn't hear a word the not wishing to hurt his feelings, told him officer said about me, and I can't hear what you are saying."

Although the judge raised his voice do you think of it by this time?" asked there was nothing doing from the pris-the preacher. "Well, sah," replied the oner. He only shook his head wearly. don't know as I'd go so far as to call colored man, "ah prayed an' prayed, an' At last the judge turned to the officer him a liar exactly, but I do know this de good Lawd, he says to me, 'Rastus, and said, almost in a whisper: "He much: when feedin' time comes, in order to get any response from his hogs, he has to get somebody else to call 'em for him."

JULY 1, 1900

Makes Kitchen Work Easy and Pays For Itself Too

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Getting dinner—or any meal—takes only half as long when you have this Cabinet in your kitchen. Everything is so handy that cookery is a pleasure instead of drudgery. -There's far less mess to clean up afterwards—it's so easy to keep the kitchen tidy—and the cook saves so many steps. Compact, sensible, and work-saving.

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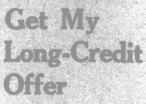
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You can pay for the Chatham Kitchen Cabinet a little at a time,--stretch the payments over many months—so it buys itself while you use it. After it has been a week in your kitchen you will wonder how you ever got on without it. This Cabinet actually is, and I GUARANTEE it to be, better, more compact and more laborsaving in design than any other made. It costs less. It is more complete, more convenient, built better-a great deal

better. The wood-work is the finest selected Canadian chestnut, beautifully finished in rich, lustrous golden-brown. The bakeboards, drawers, flour-bin, are snow-white basswood the shelves, hard, clean maple—knobs, handles, Take it on trial. Pay for it a little at a time. Nothing like it elsewhere.

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Saves 500 Steps a Day in Any Kitchen Saves endless bother and clutter

The Chatham

Kitchen Cabinet

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