

Trunk track—hes *airectly* in what the insurance companies can the adaptive some of hying spains and her of additional Yet, fire companies quote *low* insurance rates on this immense plant, because it is covered with *Brantford Roofing*. —the roofing that scientific fire-fighters call "*The Next Best Thing to an Imperishable Roofing*." Now, before you build that new barn, or, before you rip off that apology for roofing and buy new, YOU should know the plain facts about

Brantford Roofing

First, consider the truths the above photograph plainly tells. The directing officers of the Preston Car and Coach Company are shrewd, far-seeing business men. They do not take any chances. If they could have discovered a *more indestructible* roofing than *Brantford Roofing* naturally they would have used it—for the following reasons:

They knew that this big plant's safety and the safety of its contents depended *almost solely* on the *element-defying powers* of the roof which covered it

They also knew that the roofing of their plant would be subjected to the unending attacks of roofing's *most relentless enemies*. And they deliberately chose *Brantford Roofing* after serious investigation.

Here are the basic reasons for the enduring qualities of Brantford Roofing. It will pay you to consider them well whether you are in the market for Roofing now or not.

The "base" of Brantford Roofing is long fibred, elastic wool soaked through and through with pure Asphalt—a mineral fluid that has withstood the ravages of the elements for centuries. It simply cannot be affected materially by heat or water, wind or weather.

There are three kinds ot *Brantford* Roofing: *Asphalt*, with a silica sand finish, *it wears like iron*. *Rubber* has a smooth rubbery surface, but contains no rubber. And *Crystal* has a wear-defying rock-crystal surface.

N. B.—Cover that building of yours with Brantford Roofing and you'll sleep contentedly, let the elements rave and rage as they may. A postcard will bring you our big free book on the roofing question. It contains facts you should know.

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Factory and Head Offices: Brantford, Canada

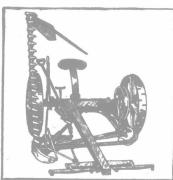
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THE FARMER'S ADVOCATE.

FOUNDED 1866

Dain Hay Tools Cut the Cost of Hay-making by One-half.

HERE'S money in Hay-if it does not cost too much to make it. The Dain Implements cut the cost of Hay-making to the lowest possible margin, because they are perfect in every detail. More than that they are built to endure-the farmers owning them declare that they are practically indestructible. It will pay you well to know all there is to know about Dain Hay-making Helpers before investing a dollar in any hay-making implement.



DAIN

lead.

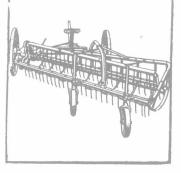
Here's the Dain Vertical Lift Mower-a machine that you couldn't smash under any sort of service. Before leaving our factories every Dain mower is subjected to a tremendous test-a test that would make a scrap iron of any ordinary implement. There's no lost motion about the Dain-the moment the horses move the knife begins cutting. The machine is built with surplus strength in every part, and so perfectly balanced that the draft is easy. Yet, we so build the Dain Mower that-in the rare event of an accident-an inexpensive part effects prompt repairs.

The Dain All Steel Side Delivery Rake is in a class by itself. Its triple set of teeth, turning slowly, put the hay in shape tor

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The Dain Steel Frame Roller Bearing Loader has always been

considered the best and easiest loading machine on the market. Besides the many exclusive *features* which have made the Dain famous our new Loader is equipped

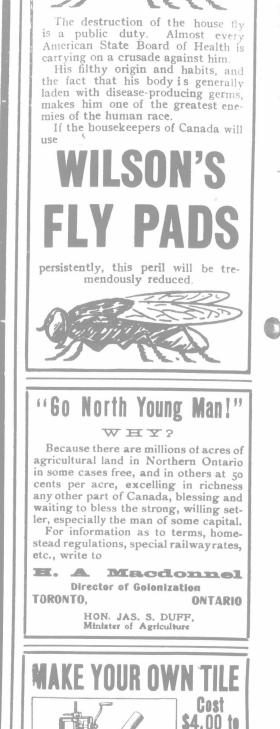


with four sets of Roller Bearings, which decrease the draft to a minimum. But, get the details, they'll please you, and it will pay you to have them. Study the Dain Line before you outfit yourselt with hay-making implements. You'll have better machinery and more money in the bank if you do so. Dain Im-plements are built to endure and to reduce friction—they are specially designed for simplicity, strength and money-making service.

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Write at once for this valuable book. It con-tains information that every farmer should have regarding the sanf-tary housing of dairy cows. It explains every fundamental of correct construction and gives proper dimensions and arrangements. It de-acribes lighting, ventilation, stable floors, and their construction, and contains suggestions about allos aite exposures appearance design. but silos, site, exposures, about mine, site, exposures, appearance, drainage and inside equipment. Beside will find in this book a number of practic plans and other information that may po way to your saving many a dollar. have designed many of the finest and mos ern dairy barns in this country and this based on our long experience and expert ledge in dairy barn construction. The boo tains in concise, clear and condensed for formation necessary to any farmer who is plan-ning to build or remodel. Understand, we send you this book absolutely free without any obligation on your part-just for answering these few questions: Do you intend to build or re-model ? How soon ? How many cows have you ? model ? How soon ? How many cows never source will you want a litter earrier ? Will you want a hay fork outfit ? Send to-day. BEATTY BROS. BOX A FERGUS, ONTARIO the farm. the famous VANCOUVER 108 Alexander St.

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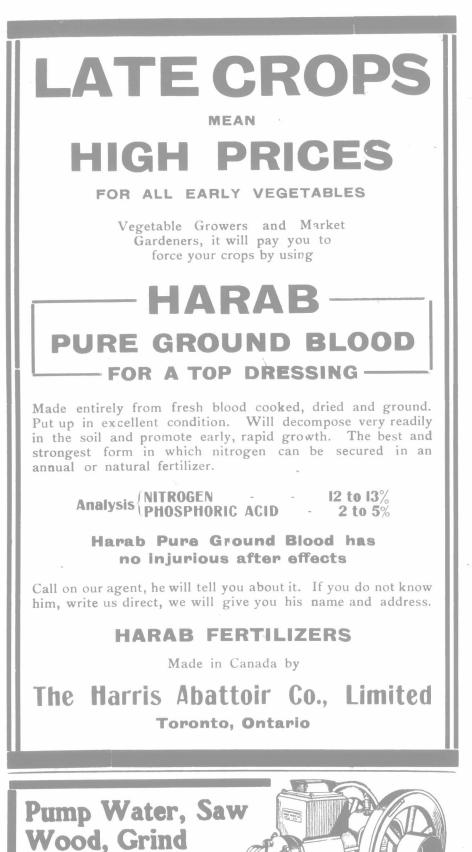
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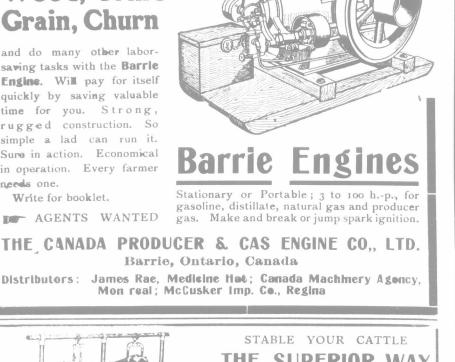
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Our new No. 3 Bulletin gives a complete description of our telephones, which are the highest-class on the market to-day. It also tells how rural telephone lines are built, how equipped and

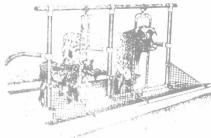
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Are In a Class By Themselves They cost but a little more than the cheapest, while they save twice as much and last five

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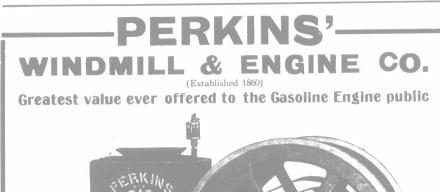
months over gravity setting systems and every year over other separators, while they may be brought for cash or on such liberal terms that they will actually pay for themselves.

Every assertion thus briefly made is subject to demonstrative proof to your own satisfaction by the nearest DE LAVAL local agent, or by your writing to the Company direct.

Why then, in the name of simple common sense, should anyone who has use for a Cream

Separator go without one, buy other than a DE LAVAL or continue the use of an inferior separator?

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TREE TANGLEFOOT, put up in 1, 3, 10 and 20 lb. cons. Will protect your trees from all climbing insects.

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Vol. XLVII.

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EDITORIAL

Of the Scot it is commonly said that he has an inwrought hatred of waste and a love of order. Good characteristics these for the Canadian farmer to make his own.

The side-delivery rake is a splendid implement on a farm, and is almost necessary where the hay loader is used, but it will not take the place of the dump rake, which is needed for the second raking and for gleaning grain stubble, where this is practiced.

There are, no doubt, far more young physicians being turned out from the educational institutions of the country than there are patients for. Wrong direction has been given to the education of many young men, and yet there is nothing more difficult to change than the old systems of education.-[U. S. Secretary Jas. Wilson.

In the published arrangement made for the disposition of the special Federal grant for the advancement of Ontario Agriculture, almost every interest seems to have been fairly well considered. In the final expenditure, however, it occurs to "The Farmer's Advocate" a considerable proportion of the money might well be devoted to some means whereby the serious losses accruing to farmers through the alarming growth of weeds would be more clearly realized, and effective measures taken to rid farms of these pests, and prevent the inroads of others. The skill with which the general plan has been wrought out will suggest naturally that, through several of the educaional and other agencies at work a vigorous campaign that will enlist the co-operation of farmers for their own benefit, might likely be evolved. To perceive that there is urgent reason for it, one need but open his eyes on nearly any fore the grain heads. rural road in the land.

LONDON, ONTARIO, JUNE 27, 1912.

No. 1031

Weeds.

Weeds, weeds, weeds to no end ! This weed question is serious, and getting more so. A short rotation of crops helps greatly in the battle, but even where this is adopted, one has his hands full for a time in dealing with a dirty farm. Thistles fight with the spring grain. Twitch-grass, blue grass, bindweed, perennial sow thistle and the like make extra work, even in the hoe crops. Docks rear their unsightly heads aloft in the meadows, yellow mustard hides the grain in thousands of fields, and even dandelions do serious mischief, overrunning pastures. These, with hundreds of others, claim urgent attention during the growing season, when the corn and roots, and presently the hay, ought to monopolize one's thought and labor. What can be done about it, all? We hardly know. Help is so scarce the majority of farmers cannot hire a man by the day for such work. Mainly, it must be done by men regularly employed on a monthly or yearly engagement.

Other than this, we can only offer a few somewhat hackneyed suggestions :

Sow only clean seed. One will get weeds enough with the best. It is well to send a sample of any small seeds about to be purchased, concerning which one may have any doubt, to the Seed Branch, Ottawa, for free examination and report.

Follow a short rotation in which manure is applied only on sod or before a hoed crop. The cultivation given the hoed crop will destroy many dangerous germinating weed seeds.

Plant large areas of corn in hills, and cultivate thoroughly with the two-horse riding cultivator, equipped with wide points. Watch for strange plants in the new seeding, and get them identified.

Clean out superfluous fence bottoms and other waste areas.

Western Crop Outlook.

In a careful resume of the crop prospects in the Western Provinces for this season, which is rather later than last, "The Farmer's Advocate and Home Journal," of Winnipeg, says : " It is most unlikely that the season of 1912 will prove so unfavorable to grain-growing as last year, yet there are so many factors all tending to lower the yield or destroy entirely the crop that must be reckoned between now and harvest that it is entirely impossible to estimate the probable yield on any farm at the present time. Rain and cold weather, frost, hail, wind storms, drouth and hot winds are factors that may appear locally, or generally, and some of these will undoubtedly affect a greater or lesser number of farms this year, to the deterioration, or complete destruction, of the crop. This view of the present crop situation is taken, not from a pessimistic standpoint, but to draw attention to the uncertainty of final yield on any one farm, and the fact that even a definite estimate of the value of the crop cannot be taken until harvest is well under way. For this reason, farmers, especially those who have no other revenue than from their grain, should be slow in securing credit on the prospects of the present crop. Credit must be secured in many cases for the carrying on of necessary farm work and for the maintenance of the farm, but a lack of foresight is shown, however, where credit is stretched to the uttermost to purchase expensive machinery and unnecessary farm appliances, with nothing to meet such credit when due, but the present prospects of an average crop.

Have a Weed Bee.

One of the most alarming consequences of the shortage of men on the farm is seen in the spread

Cost of Making Hay.

" No crop that a farmer produces is made or marred in the curing and harvesting to such an extent as the hay crop," writes a dairyman correspondent whose hay loader and side-delivery rake have not been out of the implement shed for five years, as he does not think the best clover or alfalfa hay can be made without coiling. In this most readers will concur, though there will be many to contend that, in these days of labor shortage, expedition is of supreme importance, often saving hay from injury by rain, dew or overripeness. Where, however, there is only a moderate acreage of hay to be made, and a reasonably ample amount of help to care for it, we would strongly counsel the slower method. Haymaking is a less expensive job than most people suppose. At Weldwood, last year, we made about fortyfive tons from thirty-two acres, at an average cost of about \$1.25 per ton for labor of men and teams. Every load but three or four was pitched from the coil, and most readers remember what a usually turns from a certain crop about the year broiling summer we had. We used the side-delivery rake, and liked to coil from the windrow it left. Last season, with light hay and fast- tion, ever alert for progress, but solid as the curing weather, it took the place of the tedder, rock of Gibraltar in holding steadfast to the wellbut we have bought a tedder for 1912.

Spray mustard in the grain with copper sulphate, 10 or 11 pounds to the 40-gallon barrel. Top thistles in the grain with a scythe just be-

Mow the meadows early.

In all tillage operations, do thorough work, never leaving headlands or corners unfinished. Good old-fashioned, thorough tillage will go a long way to subdue weeds.

Lastly, brethren, persevere resolutely, determined to prevail, fighting the battle of courage and of faith.

Combine Perseverance with Enterprize.

Steadfast adherence to bed-rock facts and principles is necessary to sustained progress in farming. So many people are discouraged with a new crop or a new idea by adverse results of a season or two. Come a wet, cold summer, and enthusiasm for the corn crop is dampened. A hard winter turns many back from alfalfa-growing, while a few dry summers discourage thousands from extensive sowing of clover. Yet, there is nothing more certain than the endless variety of seasons. One form of adversity is sooner or later followed by another form, and the drifter it is likely to prove profitable. One should maintain a broad outlook over the field of his occupaproven and the good.

Not to mention pests generally reof weeds. garded as more noxious, the unusual spread in many meadows is reported this season of curled dock (rumex crispus), sometimes called sour or yellow dock. After a heavy rain, it is most easily pulled. If allowed to ripen, it is carried in the hay to the barns, and the seed returns to the fields subsequently with the manure, thus laying the beginnings of another crop. By pulling, spudding or cutting, all such pests should be prevented from going to seed in the grain fields, meadows or pastures. If no other better plan of coping with this growing evil presents itself, why not try a co-operative weed bee? Hire all the boys in the neighborhood, and give an ice-cream social to conclude the proceedings of the afternoon.

Never do we remember seeing clover make more rapid and satisfactory growth than it has done this year, where there was anything at all in the spring. Some splendid fields are to be seen in Alfalfa, on the other hand, has not done bloom. so well. In many districts it was extensively killed out last winter, and even where it survived till spring, the long period of cold, wet weather has told against it, apparently conducing to the common alfalfa blight. This may not appear to any extent in the second cutting.

There are two ways in which persons become successful farmers-by imitation and by instruction, written or oral. Those who are wise will avail themselves of both.

THE FARMER'S ADVOCATE.

The Horse to Have.

THE FARMER'S ADVOCATE AND HOME MAGAZIME.

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.
 It is impartial and independent of all cliques and parties, handsomely illustrated with original engravings, and fur-nishes the most practical, reliable and profitable informa-tion for farmers, dairymen, gardeners, stockmen and home-makers, of any publication in Canada.
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Address-THE FARMER'S ADVOCATE, or THE WILLIAM WELD COMPANY (LIMITED),

LONDON, CANADA.

HORSES.

Risks in plenty attend the breeding of horses but, with present and prospective prices of good drafters, the business figures out a good average profit, just the same.

It is cruelty to animals to drive a horse which is used to having all four feet shod with more shoes off. Shoeing causes the feet to become more tender, and they are not able to resist the pounding on the road or hard ground, without bruising the soles, causing lameness

The poet Burns had his ideas of horse flesh, which he thus expresses in addressing his auld mare Maggie

The sma' droop-rumpl't hunter cattle, Might aiblins waur't thee for a brattle ; But sax Scotch mile thou try't their mettle, An' gar't them whaizle ;

Nae whip nor spur, but just a wattle O' saugh or hazel.

Thou never braing't, an' fech't, an' fiskit, But thy auld tail thou wad hae whiskit, An' spread abreed they weel-fill'd brisket, Wi' pith an' pow'r

Till spritty knowes wad rair't an' risket, An' slypet owre.

In cart or car thou never reestit; The steyest brae thou wad nae fac't it ; Thou never lap, and sten't, and breastit. Then stood to blaw;

But just thy step a wee thing hastit, Thou snoov't awa'

Light Horses vs. Drafters.

"He used to have a good farm, but he went in for race-horses, and ---- 'It is hardly considered necessary to finish that sentence. The significant "and" suggests it all. Farm neglected, growing up to weeds, most of the feed and pastures devoted to the support of unsalable colts, machinery rusting, debts accumulating, credit shrinking or cut off, proprietor on the road, on the speed-ring or at the races, keeping fast company, and too often dropping into habitual dissipation-it all stands out a distressing picture, familiar to the residents of many a district.

Without moralizing overmuch, it may be merely remarked that any side-line which takes a man away from his farm work much of the time, holding out the elusive hope of big speculative profits, instead of the fair earnings of solid, painstaking effort, reduces greatly his chances of success at straight farming, and when a farm ceases to be operated at a profit, it soon comes to be run at an annually increasing loss.

How different the case where heavy horses are bred ! These fit in with the scheme of agricultural work, the colts soon becoming useful on the farm, while the brood mares are always ready to take their place in harness, except for a week or ten days after foaling. When the young horses are broken and ready to turn off at four or five years of age, they will have earned a considerable proportion of their keep, and the owner need not make records for them or frequent the race tracks to get in touch with buyers. Driven into market with a substantial load of produce, their appearance commends and advertises them. Heavy colts, too, are less liable to injure themselves by mischievous antics than those of hot blood are, on the whole, probably less prone to unsoundness. Taking everything into consideration, the case for draft-horse breeding on the farm is a strong one, with no visible probability of becoming unprofitable for years to come. Motor trucks are all very well, but we notice they make poor headway in snow. So far, the development of mechanical traction, greatly swelling the aggregate of commerce, has seemed rather to increase than to diminish the demand for heavy horses. At all events, there are a great many in use in all our principal cities, and checks from long bank accounts are readily drawn for highclass geldings to replenish the stables.

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LIVE STOCK

In-breeding and Prepotency.

It is generally thought that an in-bred sire is always prepotent in a great degree, and one most desirable. "In case of horses," says T. B. G., in The Farmer and Stock-breeder, "the writer has known many instances where such a sire has been so; in fact, some of the best sires ever known amongst Shires have been in-bred, and in Thoroughbreds, also, the great stallion Wisdom, for example. But, on the other hand, in-bred bulls have been, in many cases, dismal failures, and their produce not worth rearing. This, of course, applies to the present day. In the days of Be-lindae it was different. There are many people who maintain that it is impossible to breed stock up to a definite standard and maintain that standard, without in-breeding. That was no doubt true sixty or seventy years ago when the field of selection was extremely limited, but it cannot apply now, when selection is practically unlimited. Having once fixed a certain standard of type by a system of in-breeding, it must be a case of careful selection and skillful mating to keep up that standard, but there is no necessity, nowadays, for selecting and mating only closely-related cattle. There is a wide range, and plenty of animals can be found in other herds, either unrelated, or, at any rate, very distantly related, that will answer the purpose for which they are 'required. Then. again, it is sometimes argued that in-breeding can be indulged in with impunity, provided the most careful selection is made in the mating of the animals; that is to say, by breeding only from those that show signs of the most robust constitutions, and that have no defects of any kind.

That theory may be all very well for a time, but what a constant weeding out there must be; so much so, that a herd bred on these lines can never increase, but must sooner or later dwindle away. In a very in bred herd the time is bound to come when, from sterility, weakness and other causes, the animals fit to breed from become fewer every year, and the wastage greater. In-breeding is just useful nowadays to establish some special feature, but whether that special feature is worth the sacrifice is another matter. Breeders often wish to bring out some special feature in their stock, and, by a few years of in-breeding and careful mating, they establish that feature, and when once established it is not necessarily lost by the judicious employment of fresh blood. On the other hand, the special feature often becomes more prominent. By a certain amount of in-breeding, it is thus possible to improve certain points in our stock; but, on the other hand, it is more likely to bring out undesirable characteristics, such as want of bone and size, sterility and delicacy of On the whole, therefore, in pediconstitution. gree herds, it is best to guard against any system of in-breeding as far as possible, but in the breeding of commercial stock there can never be any justification for it whatever. The ideal of the producer of good store stock should be to produce animals with size, quality, hair and constitution, that will live where others will will turn the food given to them to best account. This sort of stock will never be raised by a careless system of in-breeding, and so long as the sires used possess the characteristics which the breeder wishes to bring out in his stock, it matters not so much what their pedigrees are from a commercial point of view, so that they are unrelated, or very nearly so, to the previous sires used; and that brings up one little point, which is, the importance of breeders of commercial stock studying the pedigrees of the sires they use, otherwise they may inadvertently purchase a fresh sire which may be so closely related to the previous one as to do an infinite amount of harm if used too free-

During the whole of this spring's work we have fed our farm horses from five to eight pounds of alfalfa hay a day, and we never had them in as fine tone and health. We believe every farmer would find it to his advantage to mix his horse hay with at least 33 per cent. of alfalfa. Why not try the growing of alfalfa and timothy together .- Hoard's Dairyman.

Axle grease is much cheaper than horse flesh, and is also a great saving upon the wear and tear of the wagons. Once a year is not enough to grease the wagon, although some farm wagons are expected to run easily all summer from a solitary spring application. Keep the wheels revolving on a thoroughly-oiled axle, and ease the load on the horse.

Few people, even though they are accustomed to hitching horses every day, follow the right system in the operation. The first portion of the work should be the fastening of the lines in the bit, and if a team is being hitched, the coupling together of the horses, followed by buckling the lines together and placing them convenient to and there are still too many scrubs. This par the driver's seat. The breast straps holding the neck-yoke should be fastened next, after which the Government should place further restrictions pass to the holdbacks, and lastly the traces. The upon the scrub stallion, and encourage the universame is true of unhitching, only the various opera- sal use of pure-breds. It is a mistake which cantions should be performed in directly opposite not be excused to cross-breed animals whose progorder ; the traces should be unfastened first, next eny, provided a pure-bred of their own breed were the holdbacks, after which the breast straps, and used, would register. Pedigree adds considerably lastly, fasten and put up the lines. A little to the selling price of any horse, and we haven't precaution taken in these operations will avert many accidents.

It is strange what some breeders will do for the sake of saving a little time at service, or for a few dollars on service fees. A horseman called at this office a few days ago and informed us that, in spite of all that has been said against the practice of cross-breeding and the use of the inferior sire, many in his particular district still use the scrub, and cases are not infrequent this year where mares with three crosses of Clydesdale blood, whose filly colts, if they were bred to a pure-bred Clydesdale horse, would register, have been bred to grade stallions, or registered stallions of another breed. There are in this district some good registered stallions, but not enough, ticular stallion-owner is firmly of the opinion that

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A Kicking Cow Case.

Sheriff Sym, of Perth, Scotland, recently issued judgment in a case of considerable interest to Old Country live-stock salesmen, farmers and dealers attending live-stock marts. The action was at the instance of Robert Henderson, Hillyland, Perth (Lord Dean of Guild of the city), against Alexander Macdonald, farmer, Glenlyon, and was for repayment of the price of a milk cow purchased by the "pursuer" from the "defender" at Macdonald and Fraser's auction mart at Aberfeldy, on 14th December last. The cow proved to be a "kicker," and the pursuer rejected Defender refused to take it back, and the cow was sold for whom it might concern. The ground of rejection was that, in accordance with established custom and uses of trade, if a cow sold as a milk cow turned out to be a kicker, the huyer was entitled to reject it, notwithstanding the usual conditions hung up in the mart. consideration, his lordship's view was that there y as no error; that the custom which was proved consistent with the law that the buyer must rate the subject with all the defects which reason-

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able examination will disclose, and with the warranty given and fulfilled. His judgment was for the pursuer, but with modified expenses. Whether auctioneers would need to modify those conditions, he could not there decide.

THE FARM.

Practical Ideas on Harvesting Alfalfa.

Editor "The Farmer's Advocate"

For the past few years I have been growing alfalfa hay only. I have found it to be so far superior in feeding value to all other kinds of roughage that, although some years ago I grew as high as eighty and ninety acres of timothy and red clover, I have gradually decreased the size of my old meadows, and all new seeding was made with alfalfa. We have now in the neighborhood of fifty acres of alfalfa, and expect to go on increasing this acreage as time progresses.

My system of handling the various hays is, briefly, as follows : Red clover I cut when nicely in bloom, raked a little on the green side, and coiled up, allowing it to cure in the coil. Timothy was usually left until the other hay had been Jafely stored in the barn, although, for the best hay, I think it should be cut soon after the stamens appear on the heads. This will give you a good palatable hay. I allowed it to wilt thoroughly before raking, and then used the side-delivery rake and the loader to load it with.

Alfalfa I will discuss more thoroughly, because it is, in my opinion, the coming hay crop in this Province. I cut it when the young shoots at the crown of the plant begin to show, as this indicates that new shoots will be sent up almost immediately after cutting, and thus insure a quick start for the second crop. I leave it in the swath, tedding if it is heavy until it wilts considerably, but before the leaves wilt enough to be crisp, then rake up and coil in high, slim coils. It is left in the coils for a few days to allow it to sweat out well, and the coils are opened out for an hour or so if at all damp, and then hauled to the barn. I have found this method of handling to lessen the danger of heating in the barn, and to give me a splendid quality of hay for feeding during the winter. The loss of leaves is kept very small, and this insures an excellent feeding value for the hay.

In referring to the machinery used in the making and storing of the hay, I will discuss the various implements as they are used. For the past number of years I have been using a six-footit mower, and would not use a narrower one; in fact, on level land, a seven-foot cut would not be too wide. A tedder and dump rake are, to my mind, much superior to a side-delivery rake when handling clovers, especially alfalfa. The sidedelivery, unless used when the alfalfa is hardly wilted at all, will knock off too many of the leaves, and materially reduce the value of the When using the tedder, we do not allow he hay to wilt much before tedding, and then, aller tedding, we let it wilt a good deal more before raking, although not enough to let the leaves dry up too much. Then, when the raking is done, the hay is fit to coil. When using the side-delivery rake, it is impossible to separate the operations of tedding and raking, and this is necessary When if one is to get the best quality of hay. growing timothy, I used both the side-delivery and the hay loader, and made very good hay with them when the weather was good. However, I think that, under average conditions, better hay can be made by the old-fashioned method of coil-A dump rake is almost necessary, even with a side-delivery and loader to gather up the rakings that are bound to be left after the loader has gone along the windrow. I have discarded the side-delivery and loader since growing alfalfa, as they do not lit in with my ideas of the best way of handling the hay, and, also, our land is too hilly to make the loader a very satisfactory implement. When unloading the hay, we use the slings after the first few feet in the bottom of the mow have been filled. The fork has not proved with us as clean and quick a way of unloading alfalfa as the slings, for it seemed almost impossible to get a good-sized fork load to stick together. We can unload a pretty big load in three draws, and, as the slings are center-trip, the hay lands in the hoow in about the same way as it was loaded on the wagon, and mowing away is comparatively WM. MacKENZIE. Waterloo Co., Out.

THE FARMER'S ADVOCATE.

Thinning Roots.

The season has continued its increasing roll, until it is again opportune to discuss the subject of root-thinning. Owing to the scarcity of labor and the amount of work required in the production of a root crop, roots have been, during late years, gradually losing favor in the eyes of farmers, and their place has been taken by silage.

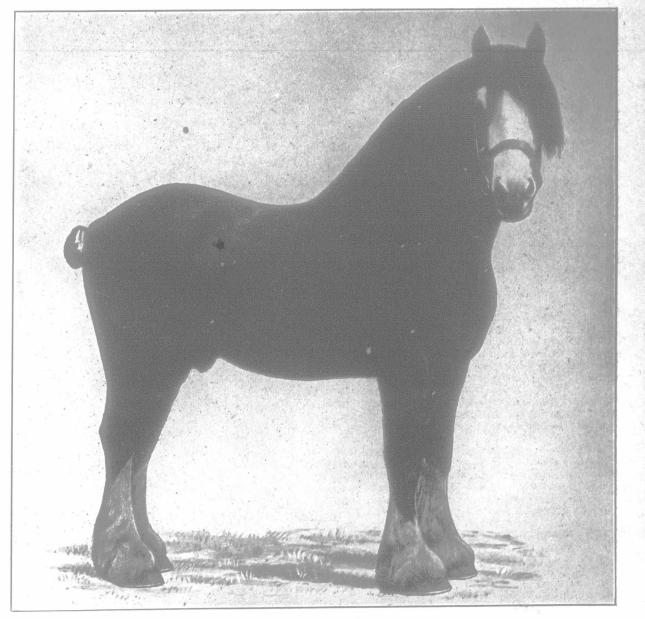
is absolutely necessary if the roots are to "bottom " well, and it is necessary to destroy weeds and hasten growth. Too much care cannot be used in thinning that a thorough separation is made and only one plant left in a place, as every time two or more plants are left together, the yield of the crop is materially lowered. Rootthinning is one of the branches of farm work at which it is essential that careful work be done. There are still, however, thousands of farms on The old adage, "work well done is twice done,"



Eye-opener, by Sensation. First-prize harness horse, 15.2 and under, at the Galt Horse Show. Owned by A. Yeager, Simcoe, Ont.

in smaller quantity than formerly, in conjunction almost indispensable, and a fair acreage is profitable on every stock farm.

which roots form almost the entire hoed crop, and the plants are too large to thin easily, and are thousands more on which they are grown, perhaps injured more than if they were thinned when smaller. Besides, the weeds get a chance to get with the corn crop. For young stock, roots are a strong root-hold. Experimental work carried on some years ago at the Ontario Agricultural College with Swede turnips, showed that the Thinning is important from two viewpoints. It largest crop of roots was obtained when the



applies very well to this operation, for a good hoeing, if at the time of thinning, being careful to remove every weed, means, under ordinary conditions, a fairly clean hoed crop. While it is always advisable to give second hoeing some time after the thinning, press of work often precludes this, or necessitates its being left rather late, that SO weeds, if not killed at the first hoeing, get a good start, are difficult to remove, and injure the crop more or less, according to their numbers. The first ques-

tion is the size at which to begin thinning. Too many leave the roots too long. and press of other work gets the better of them.

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Scotland's Pride.

Sire Hiawatha, dam by Baron's Pride. One of the best breeding horses in Canada. A colt by him, rising one year, sold for \$450, and a filly rising two, for \$425. This horse is owned by S. J. Prouse, Ingersoll, Ont., who expects a record year with foals from his ten imported brood mares.

THE FARMER'S ADVOCATE.

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attained a height of about two inches. When the plants were left until they had reached a height of eight inches before thinning, the yield was The same is true with about one-third less. sugar beets and mangels. In thinning, it is good practice, especially with turnips, to knock the plant left over with the hoe. This does not aid growth, but it insures more careful thinning, as the man with the hoe is able to see the root easily, and can detect whether or not there are more than one left.

Next to be considered is distance apart. About ten inches has been found to give very large yields, but it is a question whether the extra yield is sufficient to pay for the extra labor in handling the larger number of roots than if they The were left a foot or fifteen inches apart. smaller roots usually contain a little more feed, compared with an equal bulk of larger roots, but they also carry in more dirt, require more time in thinning, and make much more handling at harvesting time, and the yield is very little more than when left a little farther apart. Quicker work can be done all round at twelve or fifteen inches apart.

Hoeing is particular work. It should not be done too deeply, baring the roots too much, especially with beets and mangels, which do not recover from such exposure as quickly as turnips. However, the hoeing must be done to a sufficient depth to remove all weeds. Every weed that is left means extra work later, and there is a chance that it may seed before the next hoeing. Do the work at the right time, and do it carefully.

It is important to keep the hoe clean and A sharp hoe also adds to the ease with sharp. which the work is accomplished, and it is more effective in both singling and killing weeds. A file at the end of the field is a useful tool to keep the hoe in good trim. A thin, keen hoe is required.

No Use for Loader or Side Delivery.

TIMOTHY.

Because of the fact that I specialize along dairy lines, timothy hay is a crop for which I have no use whatever, except only in a very limited quantity. I want only enough timothy hay to feed my work horses during seed time, and while doing the fall work, when an extra demand is made upon their strength.

For this purpose, I want hay fairly well matured and free from dust. To secure these ends, I allow the second bloom to fall before cutting. cut in the forenoon, ted about noon, and coil in large, well-built cocks late in the afternoon. If the cocks are properly built, it is wonderful the amount of rain they will shed, without injury to anything but the top and outside. After the hay has been allowed to sweat thoroughly, which usually requires about two days, I open the cocks to the air and haul to barn. By thus allowing the hay to advance well on to maturity we get stored up in the plant the greatest amount of nutriment

plants were thinned at the time when they had fit to cut, while the weather is more frequently attained a height of about two inches. When the than not "catchy" at the time red clover should be cut, which in this district is usually about the 20th of June. If the weather is suitable, I cut in the forenoon, preferably after the dew is off, allow to lie all the first day in the swath, without tedding (tedding would expose too great a surface to the dew the first night), then in the morning of the second day ted, and re-ted, if necessary, rake up just after dinner and haul to barn.

ALFALFA

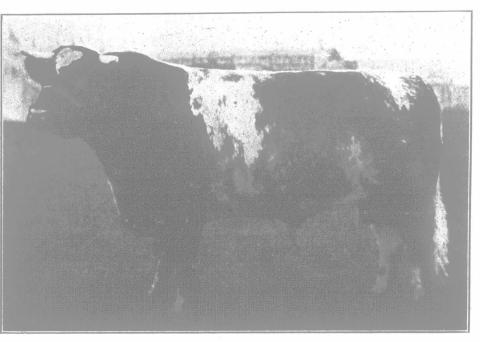
I aim to cut my alfalfa when one-tenth the bloom is on, if possible, but, as with red clover, the weather cannot always be relied upon at the time alfalfa should be cut first. One word just here with reference to my estimate of the value of alfalfa. From experience in the use of alfalfa hay as part of a dairy ration, I want to say that;

dling with care to avoid breaking off leaves, which is really a very important feature of alfalfa-curing.

Now, these are fair-weather methods. I don't think any man can lay down rules for curing and harvesting hay in catchy weather.

It is a heart-breaking experience to have a nice field of valuable alfalfa or red clover spoiled because of unfavorable weather, and I have often wondered if hay caps might not furnish a great measure of relief in such cases. If you, Mr. Editor, are in possession of any practical information on this point, you will greatly oblige me, at least, by adding hereto a foot-note giving details.

Now, as to machinery. In connection with the question of haying machinery, we are compelled to consider the farm-labor question. In this Province the operations of farmers are seriously handicapped because



Pretender.

Champion Shorthorn bull at the Bath and West Show. Owned by Lord Tredegar.

as compared with other farm crops, alfalfa hay, if good weather and lots of labor. properly cured and cut at the right state, can hardly be overvalued. I am growing alfalfa hay successfully in a county (Dundas) that is supposed to be unsuited to that crop, but I am growing it on a part of my farm that is naturally though perfectly underdrained by means of a substratum of limestone quarry. I think that nothing but disappointment and loss awaits the man who attempts to raise alfalfa where the watertable rises too near the surface of the ground; but where natural drainage does not exist, it will pay any man well to tile-drain at least one field for alfalfa, if sufficient outlet can be had for effective tile drainage, as is the case on pretty near-

We cannot control the weather, and apparently we cannot control the labor market, so in many cases we must resort to the use of fast-working machinery, such as the 7 and 8-foot mowers, the side-delivery rakes, hay loaders, tedders and horse forks. But, Mr. Editor, I am of the opinion that many farmers have too much of their land under hay crop. I had rather have a smaller quantity of properlycured hay than a large quantity of hay cured improperly because of lack of help, or because of having been harvested by means of fast-working machinery

In my judgment, it is absolutely impossible to properly cure hay without coiling, and, as it

ficient and efficient farm labor, and at no point does this lack touch the farmers so keenly as in haying operations. No crop that a farmer produces is made or marred in the curing and harvesting to such an extent as his ha crop is. Mr. Edit or, I want to repeat that 'sentence, and I hope that every reader of this article will ponder it well : "No crop that a farmer produces is made or marred in the curing and harvesting to such an extent as his hay crop is.' To cure and harvest hay so as to

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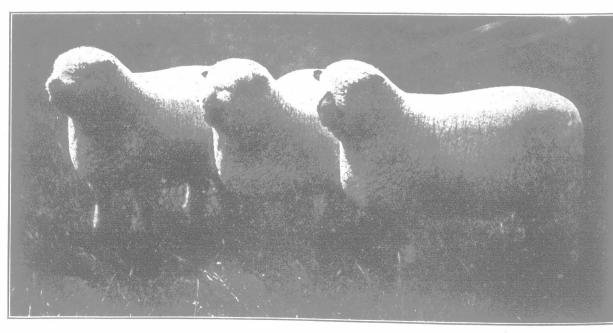
CLOVER.

I aim to cut my red clover when it is pretty much all in bloom, but before the bloom has started to turn brown. This may seem to many a trifle early, but there are two good reasons why clover should be cut green—ves. very green : (1) If clover be allowed to advance too far toward maturity, the stalks become woody and will not be eaten by the cattle, and the leaves, which are practically the only remaining part which is of value, are more likely to break off in the processes of harvesting, and become a total loss, whereas, on the other hand, if cut green, both these objections are overcome; (2) if clover be cut quite green, you can count with almost absolute certainty upon a second crop of equal-if not greater-bulk and weight as the first, and this second crop can be utilized with great profit and advantage for any of four different purposes, viz. (a) To be allowed to ripen and cut for seed; (b) to be cut again for fodder; (c) to be utilized as pasture for dairy cows to supplement the original pasture, which by this time will have become too dry to induce a heavy milk flow-and just here let me say that, in my opinion, the after-growth from early-cut clover is less liable to cause cattle to bloat than is the after-grass from more matured clover, because the second crop partakes more of the nature of the first crop, and the first crop of clover rarely causes bloating; (d) then, lastly, but not necessarily least, the second crop, if desired, can often very profitably be plowed down as a fertilizer.

Now, these are my reasons for cutting red clover green, and, as tormy method of handling. I want to say that it is more subject to variation than timothy-hay harvesting, because we usually have settled weather about the time timothy is

has become too dry I ted and rake in small windrows. Alfalfa must not be roughly handled when dry, because, if so handled, all the leaves will drop off, and those leaves are worth, pound for pound, just as much as and more than bran. After the alfalfa has dried sufficiently in the windrow, I coil in medium-sized coils, and allow partial sweating in the coils, though this sweating need not be so thorough as with timothy hay intended for horses. Then I haul to the barn, always han-

to use a hay I cut my alfalfa in the forenoon, and before it I would not use the loader, because there would be no saving of labor ; and, in the case of clover and alfalfa, the loader would knock off too many leaves. If a hay loader be not used, then one might far better have a tedder than a side-delivery rake, because a side-delivery rake is not so effective in drying the hay as a tedder. I would avoid extremes in the matter of the size of move There are cases where the 7 and perhaps even the 8-foot cutter har might he O. K., but under average conditions, I think the 6-foot cut the happy



A Winning Trio. Best ten of Shrepshire exes at the Bath and West story at Bach, the property of K. Milne.

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Seeded to the Common Alfalfa.

The two plots in the foreground on which only a few plants are growing, are from four-year-old seeding of the common variety.

a side-delivery rake and a hay loader, and I am speaking from experience. Our hay loader and side-delivery rake are both as good as new, yet they have not been out of the implement shed for five years, just because I don't believe that strictly first-class hay can be made without coiling, and they cannot be used on alfalfa without great loss of leaves. For unloading, we use slings. It akes a little longer in the field, but the time lost where is far more than made up in the barn, where every stem is placed in the mow every time in four slingfuls, and, furthermore, the labor of mowing back the hav is cut in two. It is very important that every slingful be torn apart and spread out evenly over the mow, in order to insure keeping well therein. Just one last point: In most barns where there is only one horse-car track in the peak, there should be one at each side, in order to lessen the heavy labor of distributing the If the purline posts are in the way, take hay. out the vertical purline posts and put them in on the slant at right angles to the rafters. I have done this,, and find it lessens the labor of mowing done this,, and has a back to a surprising extent. W. H. CASSELMAN.

[Note.-We have published descriptions of hay caps claimed to have been used with very satisfactory results. The specifications are very simple. Tear 40-inch common cotton sheeting into squares. Do not hem, but simply fasten a four to six-ounce weight to each corner. We got a dozen of these made, and tried them at Weldwood last year, but must confess we were disappointed. We could scarcely build cocks which they would cover satisfactorily, and the weights did not prevent the wind blowing many of them off. They are, at best, quite a bother to use and gather up, and we are not sure that they would turn a rain very successfully. On the whole, we hardly considered them a practical success.-Editor.]

Two Factors Which Control the Alfalfa Crop.

The two greatest needs to make alfalfa a success, according to Prof. C. A. Zavitz, of the tario Agricultural College, are clean land and the right kind of seed. These points cannot be impressed too strongly upon those growing or contemplating growing alfalfa. This crop is now becoming more widely known, it has passed the experimental stages, outgrown its infancy, and is now recognized as one of the most profitable, opular, and is one of the most talked of crops in the country. There is just a danger, as pointed out by Prof. Zavitz, that the country will rush pell mell into alfalfa-growing, without giving it a chance to prove that all which has been said in its favor is true, and thus ultimately the popularity of the crop would be injured, and farmers would not be so impressed with it. This would certainly be a detriment to the country's agriculture. Alfalfa must have clean soil. The man who sows it on a dirty, poor piece of ground need not be surprised if it proves a failure. As good a method as any, in the estimation of Professor Zavitz, is to summer-fallow the land until about the middle of July, and sow the crop without a nurse crop of any kind. Good success has followed this method, and the results at "The Farm-er's Advocate" farm, "Weldwood," go to con-firm the statement. No matter when the crop is sown, whether it be with a nurse crop in the spring, or alone later, the soil must be clean and in good tilth. Blue grass will crowd out alfalfa, but alfalfa will never crowd out blue grass. Grass and weeds shorten the period of the crop, producing a good stand and mitigate considerably against it even the first season, and, if very thick, may succeed in killing it out entirely. The old needs of high or underdrained soil, cutting at the proper time, or just when it is about one-tenth in bloom, inoculation, and the use of plump seed, must never be overlooked in alfalfagrowing; but, after all, lack of proper soil cultivation, and the use of the wrong kind of seed are greater dangers, and do more to injure the

medium. I have a mower, a tedder, a dump rake, crop than all others combined. Clean the soil before seeding to alfalfa.

THE FARMER'S ADVOCATE.

Whether the alfalfa crop weathers one season, two seasons, three seasons, or a greater number of seasons, up to more than a decade, depends very directly upon the seed sown. It should not only be clean and plump, but it should be the right variety. The common alfalfa (medicago sativa) is not a very hardy plant in Ontario. In fact. as is shown in the accompanying illustration of a four-year-old plot at the O. A. C., it is practically a failure, only a few stocks now remaining of the original seeding. It is a significant fact that the seed used in this country is made up

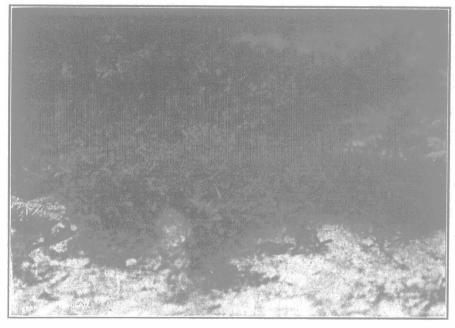
that could be imagined is to be seen on the experimental plots at Guelph. Plots of the common and variegated varieties, sown side by side, under the same conditions of tilth, show a vast difference in condition, as seen by the accompanying illustrations. Some of these plots have been down four years, and the variegated variety is showing a good stand nearly three feet high, while the plots of common have only a few scattered plants left.

There is also a great difference in the plots grown from seed of different origin. Eight-yearold plots of Ontario variegated still show a good stand, while plots from seed grown in Texas, Peru, Arabia and other warm countries, are entirely bare of plants. This is also well marked in the four-year-old plots. Seed from Turkestan produced plants which are standing well. Be careful, in buying alfalfa seed, to ascertain its origin.

The point is this : Be careful to get the variegated alfalfa. The Grimm variety and sand lucerne are variegated, and there is the Ontario variegated, which Prof. Zavitz has traced back forty years, and which is now hardy and stands the winters, and is producing crops almost, if not It quite, equal to the former two varieties. stands to reason that, after forty years of elimination of the weaker plants year after year, that a stronger plant must result. It is the survival of the fittest, and the straw is now hardy. Prof. Zavits hopes to make a tour of the sections of Ontario where alfalfa seed is produced, with a view to selecting fields of the Ontario variegated variety, and to obtain an option on the seed of these fields, the seed to be distributed among the district representatives of the Department of Agriculture for use in their

particular sections.

It has been demon-strated, with other crops, that the strain of the seed has a very direct bearing on the crop which is produced by that seed, but never was anything more clearly convincing than the alfalfa plots at the Ontario Agricultural College. Given a suitable soil, clean and well cultivated, there is no reason why alfalfa will not prove a success, provided the right kind of seed is used. Do not use the common, southern - grown seed. Even that from such Northern States as Wisconsin is not the best for Ontario, and should not be sown. Get the variegated variety, by all means, and if you can secure Ontario variegated, good results should follow,



A Single Plant of the Yellow-flowered Alfalfa (Medicago Fulcata). This is the hardy wild plant with which the common crosses, producing the

variegated.

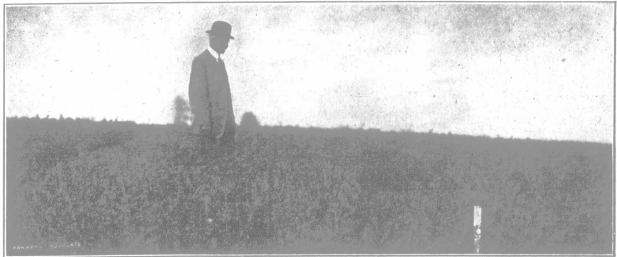
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largely of the common alfalfa brought in from the Western or Southern States. Seed coming from Wisconsin is often supposed to be good, and it may be, but most of it has originated farther south, in Texas or some other of the Southern States, and is not suited to our more severe winters.

There is another variety of alfalfa (medicago fulcata), a very hardy, creeping kind of plant, with a yellow flower. This is not a very suitable plant for cropping purposes, but has proved to be invaluable to cross with the common variety. in that a much hardier strain than the common is produced, with the upright habit of growth and a variegated flower. One of the best object-lessons

Grimm and Sand varieties. Nothing but clean, plump seed should be used.

A field should not be condemned as being unsuitable for alfalfa until the kind of seed used on it has been ascertained. It may be the fault of the origin of the seed. Northern-grown seed of the variegated variety is the kind to sow. The use on a large scale of the common southerngrown seed cannot but mean failure on many farms, and such will not be in the best interests of alfalfa-growing. Seed selection is the surest method of getting a crop which will winter satisfactorily in this country, and should be rigidly practiced.



A Plot of Ontario Variegated Alfalfa. Note the difference between this and the other four-year-old alfalfa. This one is doing excellently.

THE FARMER'S ADVOCATE.

Alfalfa Maxims.

Prof. L. R. Waldron, Superintendent of the Experiment Station at Dickinson, N. D., contrib-utes these pithy alfalfa maxims to "Dry Farm-They are pretty sound, though the first one should have been qualified by the phrase, " not always by artificial means "

1. Alfalfa must be inoculated.

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2. Alfalfa cannot stand wet feet.

3. Alfalfa needs a well-drained soil.

4. Alialfa is a poor weed-fighter the first season.

Alfalfa does not thrive when not cut. 5. 6. Alfalfa should be cut when one-tenth in bloom.

7. Alfalfa should not be cut too late in the season.

Alfalfa roots go deep. 8.

9. Alfalfa is the prince of drouth resisters.

10. Alfalfa needs a deep, well-packed seed-bed.

11. Alfalfa does best on manured soil.

12. Alfalfa is best seeded without a nurse crop.

13. Alfalfa should be seeded with a drill. 14. Alfalfa should not be pastured until well

established. 15. Alfalfa should not be pastured in the

spring, when starting growth. 16. Alfalfa boards itself, and pays for the

privilege.

17. Alfalfa adds humus to the soil.

Alfalfa sod plows hard. 18.

19. Alfalfa sod produces good crops.

Alfalfa vields are large. 20. 21

Alfalfa hay represents quality

Stooling No Miracle.

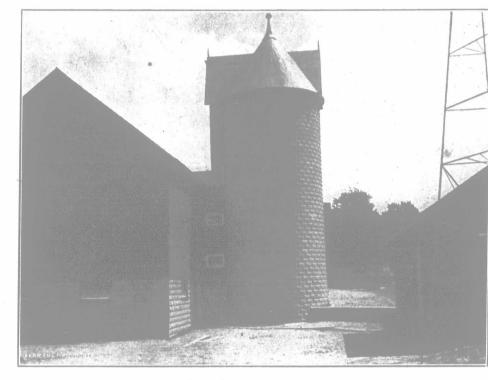
In a review of the condition of the experimental grain plots at the Ontario Agricultural College, in last week's issue of "The Farmer's Advocate," reference was made to the showing of a fall wheat called Virginia Miracle. We had previously written the Department of Agriculture at Washington regarding a wheat of that name, said to have been originated by a Mr. Stoner from a remarkable individual plant found growing on his farm in a field of fall wheat. The following information has been received on the subject :

Replying to yours of the fifth instant, addressed to the Hon. Willett M. Hays, Assistant Secretary of Agriculture, and referred to this Bureau, I would say that the "Miracle Wheat," regarding which you inquire, was looked into some years ago, at a time when it was being exploited. It was found that comments upon it by H. A. Miller. Assistant Agriculturist in this Bureau, had been grossly distorted in such a way as to radically change the nature of a statement that he prepared regarding it after he had visited the farm of K. B. Stoner, at Fincastle, Virginia. For example, Mr. Miller stated that the yield on the Stoner farm had been from three to five bushels more per acre than that of other varieties grown there. In the published literature, this statement was changed to read, "Yields from two to three times the yield of other varieties grown on the same farm," etc. For your information, I enclose herewith a copy of a memorandum reporting the behaviour of the variety at Arlington Farm, in a test where it was contrasted with Fultz. R. GULLING.

with Fultz, the check, were as follows : Miracle wheat, lowest yield per row, $7\frac{3}{4}$ ounces; highest yield, 10 ounces; Fultz, highest yield per row, 201 ounces. This would give, approximately, a yield of 33 bushels for the Miracle, and 66 bushels H. B. DERR, for the Fultz. Agronomist.

If any readers of "The Farmer's Advocate" have had experience with this or other new fall wheats being introduced, we would like to receive reports, giving the facts of actual experience with them, whether favorable or otherwise.

With regard to the stooling habit, it may be advantageous within certain limits, but the saving of a little seed in sowing is not the main factor in a large or profitable crop.



Mr. Teskey's Barn and Outbuildings. Silo, stable, and milk-house below windmill and tank.

THE DAIRY.

A Dorchester Dairy Farm.

Under capable direction, the cow and the silo, corn and the legume, make an invincible farm quartet. " The Farmer's Advocate " lately came upon an apt illustration of the truth of this statement in what some might think an out-ofthe-way quarter of South Dorchester Township. but in another sense it is very distinctly " in the way " of good farming. A farm of only 125 acres is rather small, a good many would think, but the race is not always to the swift nor the battle to the big-acreage men. Plenty of milk makes fat bank checks, but man does not live by milk alone, even though it be the best all- is idle to expect cows to give profitable returns round food. There is the satisfaction that comes

this becomes as real an asset as dollars minted by Holsteins from grass. So William Teskey thinks as he looks across the landscape and over his 23 grade cows that in the 1911 season brought cheese-factory returns to the amount of \$60.00 each, and the bunch included two heifers in their second year of milking, and six in their first year. Besides cream and butter used at home, no inconsiderable quantity, some 500 pounds of butter were sold, amounting to, say, \$125.00. From hogs sold, there was a return of about \$300.00, and from calves and other products, probably \$100.00. This season, the April cheese check from 18 cows and heifers amounted to \$268.15, and the May check \$345.03, for 33,015 pounds of milk produced by 22 cows.

It seems to be a fairly good grazing farm, grazing though rolling, and grass is the staple summer food for the herd. Whitecap Yellow Dent corn is the main winter-food reliance, and about 15 acres are grown for the cement - block silo. 40 ft. 2 in. x 15 ft. 5 in., which has been in use thre seasons, an stands perfectly, without a check in its walls. The engraving shows what it looks like. As previously described in these columns, it was erected at a cost of about \$450.00, including a good metal roof.

The first year a mixture of flint and dent corn was grown, but it did not ripen properly

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or evenly, and Mr. Teskey has settled down for the present to an early-maturing variety of White-cap. A bushel-and-a-half basketful (or what they will clean up) of good silage night and morning between two mature cows, is the standard feed, with clover or alfalía hay at noon, and plenty of clean straw for bedding, from which the cows pick a good deal, as they can in the swinging stanchions with which they are tied. If any cows become thin in Ilesh, they are coaxed along by the addition of a little meal, composed of home-grown oats and barley and bran. About three tons has been the most mill feeds purchased in a year, the farm producing practically all that is needed for feeding.

The great secret of doing well with cows, says Mr. Teskey, is in the wintering. Keep them healthy, hearty and in good flesh, but not fat. It if they are run down constitutionally when they

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Chief of Bureau.

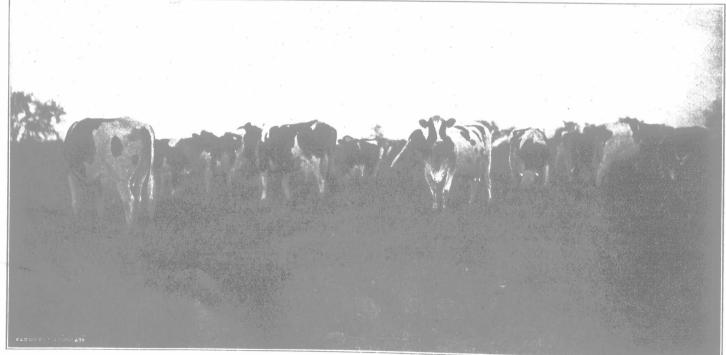
Dept. Agriculture, Bureau Plant Industry, Washinton, D. C:

MIRACLE WHEAT AT AR-LINGTON EXPERIMENT-AL FARM.

The wheat was planted in rows one rod long, seed 12 inches apart in the row. This is the method said to give best results in stooling. Sown thus, the plants produced from 8 to 25 good heads. Planted in rows 12 inches apart, and the grain approximately one inch apart in the row, the stooling decreased to 8 to 10 heads. It is believed, if the grain were sown in 8-inch drills, under ordinary conditions, the stooling would be no greater than that of the other good varieties. The wheat had 100 per cent. winter survival, with excellent spring vigor. The plants were 53 inches tall, vigorous, with long leaves. There was 50 per cent. leaf rust and 50 per cent. stem rust; no smut. The wheat headed May 22nd, and ripened June 20th-seven days later than the earliest wheat, and from three to five days later than the average wheats. In yield, the rows, as compared

from the determined order. over the Elgin valley that lies eastward toward themselves up for a month or so, and by that

effort to do things right, go out on the grass. If they are in that state, working with daily recognition of the Divine what happens? Why, during the flush of pastur-Nor could one crave a more beautiful pas- age, when they should be giving their best returns toral scene than these tree-engirded fields looking at the pail, they will take the grass to build Oxford County. To any properly-balanced man time dry weather will be on and the cream of the



Part of Wm. Teskey's Dairy Herd at Pasture, Near Avon, Ont.

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inted by thinks • his 23 brought \$60.00 in their st year. no inf butter From 300.00, robably e check 268.15, unds of

good good farm, ing, and e staple od for White-Dent e main reabout are the cex silo. 1. x 15 nich has e thre , an an rfectly,

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year a f flint rn was it did operly or the te-cap. y will ng bel, with f clean oick a chions ecome e adgrown tons year, needed

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JUNE 27, 1912

Then, the cows are treated with season gone. kindness and milked with regularity, as part of the day's work, not at any old time-after the load of hay is off, or something else finished. There is no flowing water in the fields, so they are watered morning and evening in the stable at milking time, and at noon in the tank supplied from a well by the windmill. If they do not come up for the mid-day drink, they are brought. Though water is supplied them in the stable, they are let out every day in winter for fresher air and exercise. For health and good milking, this is imperative. Mr. Teskey says he has observed that, on occasions when, because of rough weather the daily outing was skipped, instead of keeping up the milk flow, as might be supposed, there was an actual falling off. If practicable, Mr. Teskey would have the cows dry off for six weeks or two months before "coming in" afresh, so as to recuperate them for another season's milking.

Last year he began keeping individual cow records on sheets supplied by the Dominion Department of Agriculture at Ottawa, and is continuing the plan, because it is the only reliable way of knowing what the cows are actually do-To weigh and record the milk of four cows ing. would occupy at the rate of about one minute, and it pays. Under the steel windmill tower is a big elevated water tank, and beside it a covered shed for milk wagon. There are also wooden cooling tanks, into which the cans are lowered by a crank windlass or small derrick. A larger cement tank in the ground will shortly replace the wooden ones. On the wall alongside the stand is the spring scale and record book, all under cover. Sunday morning's milk is kept cool and sweet. and sent to the factory on Monday morning.

The interior of the stable was clean, though it was in the midst of the busiest farm period. Cobwebs did not festoon the ceilings. The mangers were not cornered up with musty fodder, straws did not obscure the water basins, and the manure gutters were not breeding places for flies. Lime had been freely used about the stalls.

At the time of our visit, early in June, some of the cows were milking up to 67 pounds per day, the lowest being a three-teated cow giving 34 pounds. At the auction sales, this sort of cow always milks "just as well" as one with four teats, but she doesn't, all the same. Mr. Teskey keeps a grade Holstein sire from his own bestmilking cow, crossed with the best available neighboring male. With two or three "red, white and roan" exceptions, the herd is composed of grade Holsteins, and they all look like business. The only pedigree to which Mr. Teskey pays much attention is the pedigree of the milk pail and the scale. He raises a few heifer calves annually, but never hesitates to pay for a cow if he sees one likely to improve the standing of his herd. It is evident that a herd of this kind is chiefly the product of thinking put into practice. A fairly representative group of them on pasture appears in our illustration. As one might expect, Mr. leskey has been following carefully the progress of alfalfa culture, as recorded from time to time in "The Farmer's Advocate," having his first cuttings last year, and had an excellent growth this year from 1911 seeding, 20 pounds per acre, with barley sown at the rate of 13 bushels per acre. This spring, another field of beautiful rolling land, 10 acres, sown in the same way,

THE FARMER'S ADVOCATE.

keeper that the cream which rises on the milk doesn't measure its value. The fat which constitutes largely the cream furnishes only heat, and is really the least important part of milk from a nutritive point of view. We don't need much fat in milk, especially in the summer. Perhaps the most valuable element of milk is the casein. Casein furnishes the muscle for the animal body, and also nourishes the brain. The albumen is another nitrogenous compound very much like casein, and serving similar functions. The sugar is also valuable, being similar to cane sugar, although not quite so sweet. The sugar may be troublesome, for when the milk sours the sugar turns to acid. The simple means of preventing souring is to keep the milk cold. The bacteria then can't feed on the sugar. If the milk has been previously pasteurized, nearly all the bacteria will have been killed, and if the milk is cooled at once it will keep a considerable length of time. In addition to the elements above mentioned there is the ash material, which goes to build up bone.

MONO-SERVICE MILK BOTTLE.

Touching upon the matter of distribution, the speaker quoted Dr. Sheard, formerly health officer of Toronto, by saying the milk bottle, as used in Toronto, was the greatest disseminator of dis-Milkmen would sometimes take ease in the city. a bottle from one door and refill, without its having been properly washed. A mono-service paper milk bottle was exhibited and handled in various positions, upside down and otherwise, to indicate its serviceability. These bottles, as the name implies, are thrown away when once used.

MISTAKES OF THE HOUSEWIFE.

In using milk, housewives often make the mistake of emptying the milk first into a pitcher and then setting this on and off the table until used The proper way is to have a glass-stoppered up. bottle. Pour from this into the pitcher enough

improvement in ice-houses and tanks made by farmers in many parts. The short make in some parts is due to the shipping of milk to outside points, as Toronto and Ottawa. Spring crops are very late in most parts, much of the seeding not being done even until June 1st. but the improved weather conditions during the last few days will have made great changes. Fall grain varies much in different parts. In the Lindsay and Peterboro districts cows are not in as good shape as last year, but, with favorable conditions, the make will likely exceed that of 1911. The falling off in May this year in the Lindsay group is partly due to the feeding of milk to the calves for a longer period before sending it to the. fac-In the Peterboro group, three new cooltory. curing rooms and a new cement-block cheese and butter factory, with cool-curing room and refrigerator, are largely responsible for an improved quality of product. Many patrons are using ice and cold water to a greater extent this year. The scarcity of feed in the Picton group is largely responsible for poorer cows and 20 per cent. decrease in the early cheese output this year. An increasing number of patrons are sending milk and cream to Toronto, so that, while the total output may equal, it will scarcely exceed last year. In the Cayuga group, while the make of cheese is slowly falling off, the output of butter has increased, and the trend of the industry here is steadily in this direction. In the Belleville district the cheese has been shipped too green this year, and the make to the end of May will run about fifteen per cent. less than in 1911. Dozens of new milk stands are conspicuous along the various routes this spring. In the Campbellford group, more ice has been stored than ever before, and more factories are in a position to handle their cheese properly after making. In the Kingston group, a number of ice-houses have been erected, thus insuring considerable improve-



ment in the care of milk. In the Almonte syndicate, about Smith's Falls, many patrons have put in ice and tanks this vear. Farmers in the Gananoque district are milking more cows than in 1911. Around Carp, the influence of Ottawa is felt, and this city is drawing a considerable supply from thirty miles out, and factories are becoming fewer. In the Cornwall group milk has been coming in in excellent condition, and a very superior lot of fancy cheese has been produced in this district. The flavor and texture is reported almost per-1nIac tories. Many put in ice last winter, and fewer cans of tainted

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shows a very fine catch.

Milk and It's Care.

Interspersed in the tirade against the methods of the milk producer, it is somewhat of a relief to hear now and then a word of adjuration to the milk consumer concerning his part of the responsibility for the care of the milk which he There is no doubt whatever that a great uses. deal of milk suffers serious deterioration in the households where it is consumed. It is not always the dairyman's fault if the milk sours too quickly or absorbs unpleasant flavors. A timely address upon the subject of milk and its care was delivered in Woodstock recently by Prof. H. H. Dean, at a meeting held under the auspices of the Oxford County Holstein Club. The speaker introduced his subject with a sample of milk which had been pasteurized by heating to a temperature of 160 degrees Fahrenheit, holding it there ten minutes, then cooling and putting in a sterilized bottle. Milk treated in this way should keep sweet twenty-four to forty-eight hours longer than unpasteurized.

COMPOSITION OF MILK.

The best scientific men in the world have been studying milk, and still they don't know very much about if. They do know, however, that it contains about 871 per cent. water. Water is nature's great carrier of food to plants and animals. The best definition of milk is that given by Aristotle, "Milk is elaborated blood." It is made from the life-giving fluid of the cow. Discussing the constituents of milk point by point, Prof. Dean remarked that it is practically a hopeless task to try to convince the average houseHayes Cherry.

Guernsey cow; first prize at Bath and West Show, at Bath.

each time for use, and never put the milk in the milk are reported this season than in many years. ways be kept covered. Exposed in a pantry, milk will absorb all kinds of flavors. Keep the milk in the original package in which it came until used.

Eastern Ontario Dairy Conditions

Reports have been received from practically all the dairy instructors in Eastern Ontario, in reply to a number of questions sent out by the Dairy Branch of the Ontario Department of Agriculture. The replies point to a promising season." Cows generally went out in poor condition this year, and the make of cheese until nearly the end of May has been considerably lighter than last year, due partly to the late season. In some places last winter, owing to very high prices, farmers sold themselves short of feed, and will not be able to feed so well this summer. The poor season last year, followed by a severe winter and late spring, is showing its effects in many parts, not only in a lack of feed during winter and spring, hut many new meadows are patchy. The high price of concentrates has also been a serious drawback. Wherever the silo is much in evidence, conditions generally are favorable. Meadows seem good generally, especially old ones, and, if favorable conditions ensue, the output this year should exceed last year's. The quality of cheese has been decidedly superior, several instructors reporting the finest cheese for last month their districts have ever turned out. This has been due to the cooler weather during May, and a very marked

pitcher back into the bottle. Milk should al- In the Kemptville district greater interest is being shown by the producers in improved conditions, much better cooling facilities having been established. In the Brockville N. group patrons are taking a much greater interest in the care of their milk than ever before, and many tanks and ice-houses were installed for this season. In the Brockville group, the general opinion is that the output will exceed last year's, as the meadows, especially of alfalfa and other clover, are excellent. The quality throughout the Ottawa E. group is decidedly superior this year, largely due to the better quality of milk. Many new icehouses have been built, and also several new silos, while many factories have been improved.

POULTRY.

Developing the Pullets.

The chicks should be moved out on the wide range when they are about eight weeks old, putting fifty to seventy-five youngsters in each colony, coop or outdoor brooder that has been altered into a colony coop. The floor of the coop should be covered with half an inch of loam from the gar-About once a week, shovel out the loam in den. a wheelbarrow and wheel it to the garden, distributing the rich dressing where the tender roots of growing plants won't come in contact with it. A load of fresh loam is shovelled into the barrow, wheeled to the coops, and the floors covered again. A load will do two 3 x 6-foot coops.

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When the chicks are moved out on the range, both pullets and cockerels are together. The cockerels should be separated from the pullets by the time they are three months old, the cockerels being yarded by themselves or moved off to fattening pens and fattened for market. The twentyfive to thirty-five pullets in each colony coop flock are left to grow to laying maturity, or close to laying, with the colony coop as their home, and finding their food in the outdoor food hopper.

It is quite common to find the first pullet's egg in one of these colony coops along in late August or during September, provided the chicks were hatched in March, April or May-depending on the breed or variety-and kept growing steadily. For example, it is comparatively easy to grow Plymouth Rock, Wyandotte, Rhode Island Red or Orpington pullets to laying maturity in the manner here described in five and one-half months to six months. This can be done with Leghorns in four and one-half months to five months-and with safety.

Remember that it does not pay to force pullets By doing so, you will stunt to early laying. their growth. Plymouth Rocks, for example, can be brought to lay at four and one-half to five months old, and Leghorns at three and one-half to four months old, but it is unwise to do this. In order for these fowls to do their best as "egg machines," they should develop large frames before they begin the trying process of producing an egg a day." By the time the pullets begin to lay-dropping now and then an occasional egg -they should be moved into the laying houses.

The poultry house should be emptied of the old birds in September, the house thoroughly cleaned out and disinfected, the walls and ceiling whitewashed and the new generation of layers-tobe moved in about October 1st. This period aries in different sections, but along about October 1st is the usual time. There should be two dry-mash hoppers to each thirty or forty adult birds, these hoppers to be kept supplied with a reliable dry-mash mixture, and, as the hoppers become empty, they are re-filled. There should be dry mash in the hoppers all the time. Twice a day, morning and mid-afternoon, a scratching food of whole and cracked grain should be thrown into deep, dry litter on the pen floor, and the birds now get healthful exercise scratching and searching for the grain. The amount of exercise induced is at the discretion of the attendant. The deeper and more open the scratching litter, so that the grain sinks into it out of sight at once, the more the birds will have to scratch and dig for it .- [Cyphers Company Service Bulletin No. 2

Late Chicks, Yarding Fowl, Etc. 'Editor "The Farmer's Advocate ":

There has always been a great difference of opinion as to whether late chickens are worth the trouble of rearing or not, and many experts differ on the subject. Of course, much depends on the particular kind of demand associated with the

or appear to be weaker, and unable to get out of the shell, while very often the germ dies before the tenth day. This trouble is felt much more in artificial incubation than natural, but it probably arises owing to the condition - of the breeding stock, which, as a result of a season's heavy laying, are getting run down, and require rest for a time. Some of the troubles prevalent during the hatching season can be averted if the atmospheric This applies to both conditions are studied. hens and incubators. When the weather is very dry, a small panful of clean water should be placed under the egg tray in the incubator; and if the hen's nest be not placed directly on the ground, a little water should be sprinkled on the eggs during the last few days. Insects on the hen will be a source of much trouble in many cases, and, when not attended to, I have heard of hens leaving their nests solely on account of the insect pest. Where incubators are used, care must be taken not to let the machines get too high in temperature, especially in the daytime, when the sun's rays heat up the atmosphere.

Poultry-keepers who yard their fowl find trouble with the lighter breeds flying out of their pens. I had a flock of Leghorns one year, and found it almost impossible to keep them in bounds. As a last resort, I tried wing-cutting ; that is, clipping the wing on one side, so as to upset the balance in an attempt to fly. If the wing of a strongflying wild bird is cut this way, it will fly around in small circles, its tail rudder being insufficient for straight steering against so much wing-power on one side. If both wings are cut, the bird will be able to fly, although not so strongly. There is no occasion to cut right across the wing, and it should not be done, for two reasons, one because it is unsightly, whereas, if only the long flight-feathers at the far side of the wing from the body be cut, the stumps fold underneath the feathers in the front of the wing, and the cut part is not seen when the bird is at rest. If the feathers are cut right across the wing, there is an unsightly gash across the bird's side, and the cold is let in enough to cause the bird serious discomfort, if not positive injury in cold weather. The feathers, of course, grow again after the moult, but probably will not have to be cut the second time, as the hens are quieter in their second year, and it is usually the pullets which are the offenders. Cockerels of any breed rarely try to fly Occasionally a fowl learns the trick of out. climbing up the wire like a parrot, and the only way to prevent this is to turn the wire at the top toward the pen.

For rearing chickens in the early part of the year by the natural method, a double coop is The best kind I have seen is made in two best. parts. It is about four feet long, by tweaty-one inches deep, eighteen inches high in front, and fifteen inches high behind. It is divided into two parts, one twenty-one inches long, and the other location of the poultry-keeper, and also on the twenty-seven inches long. The ends, back, top and front of the smaller compartment are made solid; the top, which is made in two parts, and Gelett Burgess to write: the door in front, being hinged to allow of it being cleaned more easily. The partition and the front of the longer compartment are fitted with laths two inches wide and two inches apart, the center one in each case being made movable to form a door. Such a coop, placed with its back to the wind, affords sufficient shelter for a hen and her brood, as well as allowing for a scratching shed for the chicks apart from the hen, and especially useful in wet weather, as they can still have all the exercise necessary without getting in the wet

GARDEN & ORCHARD

A Plant Cancer.

Bulletin 235, Bureau of Plant Industry, just issued by the U.S. Department of Agriculture, is entitled, "The Structure and Development of Crown Gall-A Plant Cancer. The bulletin, fully illustrated, is devoted to showing the various ways in which a common growth on plants is like malignant human tumors. Curiously enough, in all the years of cancer research and out of all the effort put forth to discover the cause of this mysterious disease, it has never occurred to investigators that there might be an analogous disease of plants which would throw light on its origin. Tumors in plants range in size from a half-inch or less in diameter to a half-foot or more. The name commonly applied to them is crown gall, but they grow on various parts of the plant. They occur on fruit trees, berry bushes, rose bushes, ornamental trees, etc., and are very common throughout the entire United States, and also in the Old World. Some of the facts brought to light by the Department studies are these : Crown galls consist of an overgrowth of the plant tissues themselves, and in general appearance are not unlike cancers, and are destructive to the individuals harboring them. Like breast cancers, these growths send out roots into the deeper, sound tissues, and upon these roots secondary tumors develop, so that, when excisions are attempted, if any portion remains, a new growth develops, exactly as in cancer; also, the secondary tumors developed from the strands or roots have the structure of the mother tumor. For example, when a primary tumor has developed on a stem, the roots of this tumor often enter the leaves, and there develop secondary tumors, which are not distorted leaves, but have the structure of stems; the tumor then destroys the leaf, developing as a morbid, perishable stem. Other likenesses are pointed out. The Department has discovered that these plant cancers are due to a micro-organism, which has been cultivated pure, and with which they can be produced at will. The bacteria have been isolated both from the primary and from the secondary tumors. The organisms occur inside the cells, and under its stimulus the mechanism of abnormal growth is accomplished.

THE FARM BULLETIN

Between the Seeding and Hay. By Peter McArthur.

This morning I went out-but not for a walk. Going for a walk would have been altogether too purposeful for such a hazy, lazy day. I just put one foot ahead of the other and dawdled along. I was in was like the one that inspired

district in which he lives and the market to which he sends his stock. If a man goes in for egg production, he will have to consider the time it takes each breed to mature, and also whether they are sitters and non-sitters. Light breeds should never be hatched earlier than April or May, else they will moult the same season as hatched; whereas heavy breeds, like the Buff Orpington, cannot be hatched too early. Should the production of table chickens be the aim, it is quite possible that late chickens, if properly cared for, will be quite profitable. I have had them hatch as late as the first weeks in July, and had good profits from them. They are not so large in the fall as the earlier hatches will be, but their cost of keeping has been much less. May and June are generally good months for rearing chickens. There is an abundance of animal and vegetable food, which are the two chief factors in the rapid development of the growing chick. The days are usually long and warm, which reduces the risk of loss considerably. So far this season, however, the problem of raising chicks has been rather difficult in Eastern Ontario, owing to the excessive rainfall and continued cold weather, so that breeders of the lighter breeds, such as the Leghorn, will have the advantage of being able to absolutely essential in the original breeding stock. delay the hatching season somewhat, and suffer no loss thereby in the egg production later on. ing when five or six months old.

There is often difficulty experienced, in late spring or early summer, in hatching. Chicks are your flock.

NOTES.

In mixing soft foods, all stickiness should be strictly avoided. Hens do not like anything that sticks to their beaks.

Get rid of your young cockerels when they are three or four months old. The older they get, the more it takes to feed them in proportion to their gains

Don't overcrowd. Flocks in smaller numbers pay better than the larger numbers. It is not a question of simple proportion.

When purchasing the initial breeding stock, the poultry-keeper must not allow himself to be influenced by thoughts of cheapness. The future success of his venture depends upon the quality of his stock-birds, and if the ultimate aim is to produce birds which will command a higher figure than ordinary market prices, sound quality is

Don't neglect to provide grit and lime within easy reach of the fowl. They need it now quite as much as in winter, and very often are not Almost any of the lighter breeds, if well cared for able to get enough without having it supplied by and fed on suitable food, should be ready for lay- their caretaker. One writer says : "Grit, more grit, and grit again," or something to that effect. The grit question cannot be too strongly empha-

" My feet they haul me round the house, They hist me up the stairs; I only has to steer them and They rides me everywheres."

Last night a series of thunderstorms had gone over and around, and the sky was curtained with " clouds returning after the rain." But in spite of the clouds the morning was hot, and thunder was muttering in the distance. All nature was incredibly fresh and green, and the air was heavy with damp perfumes. At the edge of the woods I found a little patch of wild strawberries, and for the next few minutes life was very good, though it would have been still better if the berries had been already picked and waiting for me, spread temptingly on a broad leaf. Drifting into the woods, I found a grassy bank that was reasonably dry, and sprawled down on it luxurious-It was exactly the time and place to remember Carman's immortal spring song-the most glorious thing of its kind in the language :

"Let me taste the old immortal Indolence of life once more; Not recalling, nor foreseeing, Let the great slow joys of being Well my heart through as of yore ! Let me taste the old immortal Indolence of life once more."

It gave me something of a thrill to remember that it was almost on that identical spot I had read the poem for the first time twenty years sized. It means health, strength and vigor for ago, and had vibrated to its wonderful rhythms. your flock. C. C. S. The peet had sent it to me in manuscript as soon The peet had sent it to me in manuscript as soon

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THE FARMER'S ADVOCATE.

as he had written it. Some time afterwards I bought it from him for a soulless corporation, it made me feel ashamed to remember how pitiful a price had been paid for such a masterpiece. Remembering that corporation changed the vagrant current of my thoughts, and with a sigh, such as a contented man breathes when about to do his duty, I took a copy of a Saturday raper from my pocket, and read Sir Edmund Walker's eulogy on the Canadian banking system. "Under the shade of melancholy boughs" I read it carefully-and didn't care a hoot. It was altogether too peaceful a day to get worked up about anything. Cattle were munching the lush grass across the line fence, the breeze was purring among the leaves, flies were humming murmurously somewhere near-by, and I should have fallen asleep if a mosquito hadn't lit on my ear and started prospecting for a meal. That reminded me that dinner must be about ready, and I got up and started to walk energetically towards the house. Those wild strawberries had made me hungry, and I suspected that there was a strawberry shortcake hidden somewhere about the place. Of course, I was late for dinner, but what else could you expect on a day like this. "Time was made for slaves.

And now that the orchard has escaped the leaf-curl worm, the bud-worm, the oyster-shell scale, the aphids and all manner of blights and fungi, it is threatened with the worst blight of all-the blight of politics. Personally, I am willing to grant the credit for the bountiful stand of fruit to the Conservative Government, under whose benign influence the trees have been pruned, scraped, sprayed and fertilized, but this generous attitude does not seem to please any-

pose that, after all, Governments are a good deal like people, and that they are fond of apples. I have often heard them accused of being hungry for office, and, after having had a good mess of office, perhaps they would like some fancy apples for dessert. But I hardly know how to go about the presentation. There are, no doubt, lofty ceremonials that should go with such an act, but I am woefully lacking in knowledge of high etiquette. Still, I think I know the "arbiter elegantiarum " of Parliament Hill, and I shall/drop him a line privately to ask him how to proceed. But, all nonsense aside, I have had excellent evidence that the work of the Department of Agriculture, as demonstrated for me by Mr. Clement, is eminently practical and useful. I have been shown in a simple and unforgettable way how an orchard should be attended to so as to get the best results, and unless something entirely unforeseen occurs, the results in this orchard will be all that anyone can desire. Of course, I wish they had some way of changing the abundant crop on the trees of Benjamin H. Davis, Esq., into fancy Spies, but I don't believe that could be done, even if I had a well-oiled pull with the party .. But the yield of Ben Davises under scientific treatment promises to be such that I do not think I'll ever bother raising turnips in the ground again, seeing it is so much easier to raise them on trees. * * *

This is the time of year, above all others, when the farmer is disposed to worry, if he is of the worrying kind. In his wonderful partnership with Nature for the production of crops, he has done his share in many of his fields, and everything is in the hands of the other member of the firm.

The bumble-bees are once more prospecting around the window-frames and door-frames, looking for likely places to locate their summer homes. Occasionally one gets into the house and begins buzzing in a window, and then there is excitement. As the order has gone forth that bumble-bees must not be killed, the job of putting them out naturally falls on him who issued the order, and I think there are easier jobs than tenderly removing an indignant bee that is jabbing in every direction with its sting, and apparently using the worst kind of bee language. Even after you have successfully thrown a handkerchief over him-or is it her ?-you have to take up the bundle with caution, for, according to my best recollections, a bumble-bee's sting is long enough to reach through old-fashioned full-cloth, and when it strikes flesh it feels about as long as a prong of a barley fork. So far there have been no accidents, and all the vagrant bees that have intruded into the house have been saved for a life of usefulness in the second-crop clover.

Our Scottish Letter.

I suppose it is because one is advancing in life -but time seems to be on the trot in an accelerated fashion, and obituary notices are among the most frequent efforts these days. Since I last wrote, the Reaper has been very busy here among men well known in one walk or another to Canadians. Prominent among these is William Taylor, of Park Mains, Renfrew, well-known in the Clydesdale world as the owner of Sir Everard 5353, and one of the most popular men in the West of Scotland. He passed away about a fortnight ago, and Scotland is very much poorer by his de-Mr. Taylor was a Glasgow man. born and mise.



1171

Dr. O. M. Malte. Recently appointed Dominion Agrostologist.

one. The Liberals say it was a good apple year, anyway, and that I should have had a crop without all the work that has been done. The Conservatives, on the other hand, want to know what party I belong to, anyhow. They know I did not exert and pull through the usual channels, and yet I have the Department of Agriculture helping me out with my orchard. How do you explain it ? Huh ? Since this sort of thing started, my favorite seat has been on a nice, comfortable, round rail on top of the fence. I refuse to be drawn by either party. As a matter of fact, I have an old-fashioned notion that, after the storm of an election is over the Government represents all the people, and that one man has just as much right to its benefits as another. But not so the vast majority of the people. They seem to be obsessed with the idea that, unless they have a pull with the party in power, they couldn't, get reliable advice about nursing young pigs through the teething period. If the political blight should strike my trees, and affect them as badly as it does many people, they would probably drop all their apples and give up in despair. But I am on the fence in this matter, and I want it distinctly understood that if I find anyone trying to introduce politics into that orchard, I shall make faces at them, and perhaps throw clods.

There is another thing that is beginning to trouble me about the orchard. If the fruit turns out as well as it promises, should I send the Government a barrel of faucy Spies or juicy Pippins? One likes to reciprocate favors, and certainly I have been well used so far. I sup-



All he can do about his oats, wheat, barley, hay, apples and such things at this time of the year is to watch them grow. If he has put seed into well fertilized, well-drained ground, he has done his share, and must possess his soul in patience when the weather is too cold or too dry or too wet, or when the high winds are scattering his fruit. I can understand now why farmers are accused of being such persistent grumblers. The business man or workman has his enterprises under his own control practically all the time, and at all times can be doing something to further his interests. As he works under a roof, the weather means nothing to him, but to the farmer the weather means everything, and he has absolutely nothing to do with it. He is at the mercy of the sun-spots-they are said to affect the weatheras well as all kinds of bugs and blights, and in most cases he can do nothing but look on. Of course, the scientists are doing much to help us control the insect pests and diseases of crops, but there is still a wide margin where we are entirely helpless. While I do not defend worrying and grumbling about things that are beyond our control, I no longer wonder at it. With the vast majority of people it is not simply profits, but the actual living, that is at stake, and a shower too many or one too few may make a world of difference. There is no doubt about it, the farmer must be a philosopher, and take things as they come, even if he is a scientist and does his best in his part of the work.



Assistant Dominion Field Husbandman.

He early evinced a predilection for rural bred. pursuits, and in 1877, when scarcely 23 years of age, became tenant of Park Mains. He was about 56 years of age when he passed away-perhaps a An out-and-out gentleman and little more. sportsman, Willie Taylor, was popular as a man, as a judge, as a horse-owner and exhibitor. was quite as much at home in the hunting field as in the Clydesdale show-ring. He kept a fine herd of dairy cattle, was a good judge of sheep, and in every respect carried out the best traditions of the efficient Scottish farmer. He did a big Canadian trade in Clydesdales, and, apart from the Montgomery firm, in one or two seasons, he did the biggest trade of any of the Clydesdale men.

Two notable men connected with the implement trade have also passed away. These were William Wallace, of John Wallace & Sons, Ltd., Glasglow, and William Elder, of Elder & Sons, Ltd., Berwick-on-Tweed. Both gentlemen were well known in Canada. They held the agencies for the Massey-Harris products in their respective districts, and doubtless their value was well known to the principals of that great firm. Mr. Wallace's firm also held the agency for the Oliver chilled plows, and he, as well as other members of the firm, were frequently on tour in Canada and the States. Mr. Wallace was a magistrate of the City of Glasgow, and held in great esteem in the community. Mr. Elder was an older man. He had built up a big business from small beginnings, and was greatly honored in the Border district, in which his firm chiefly operated.

Another aspect of things is presented in the honoring of W. S. Ferguson, Pictstonhill, Perth, an eminent breeder of Aberdeen-Angus cattle and

THE FARMER'S ADVOCATE

Border-Leicester sheep. Mr. Ferguson has been a splendid exponent of the agricultural interests. He has judged cattle at Chicago International, at Guelph, and at Buenos Ayres. He has been a great traveller, his wife and he having toured round the world, and he has the gift of ready speech, so that all who know him get the benefit of the information he has gleaned. He has been a "bonnie fechter " in the agricultural interest, and whoever may have faltered in the day of battle, Pictstonhill could always be relied on to show fight. He never allowed the agricultural flag to be trailed in the mire, and his fellow countrymen have honored him by presenting him with his portrait in oils. The presentation took place at a largely-attended function in the City of Perth, when his friends and neighbors attended in large numbers to do him honor.

Yet another personal item may be mentioned, and then we pass on to other topics. In the examinations for the National Diploma in Agriculsture, remarkable success was achieved by three sons of W. T. Malcolm, Dunmore, Stirling, a successful breeder of Shorthorns. Two of these boys were first and second, and took their diploma with honors, while a third, who is much younger, also took his diploma in the same competition. These lads were trained in the West of Scotland Agricultural College, but undoubtedly their thorough acquaintance with the practice of agriculture on their father's farm enabled them to profit in a unique degree by the teaching imparted in the College. They already had a good working acquaintance with the "How" of agriculture before they began to study the "Why, and this combined attainment enabled them to profit in an unique measure by the instruction conveyed of a technical and scientific character in the college. So far as I can remember, this is the first occasion on which such a remarkable record has been made in these examinations by boys trained on the farm.

Apropros of agricultural education, a good deal of feeling has been excited by an appointment recently made to the Strathcona Fordyce Chair of Agriculture in Aberdeen University. The appointment has been given to James Hendrick, F. I. C., the lecturer on Agricultural Chemistry in the College. This appears to many to be little short of an outrage. The occupant of an agricultural chair should be an agriculturist, not a chemist; and, no matter how high a man's attainments as a chemist may be, they ought never to be regarded as qualifying for an agricultural chair. The agricultural members of the governing body are up in arms against the appointment, which, however, appears to be irrevocable. Mr. Hendrick is a first-rate man in his own sphere. but the idea of making a chemist the head of an agricultural college is not regarded as at all de-I do not know how such an appointfensible. ment would be regarded in Canada, but I cannot suppose that Guelph was ever made what it is by placing over it a man distinguished solely by scientific eminence in a department closely allied to agriculture. So far, in Scotland, after 20 years' experience, we have not yet succeeded in getting the purely agricultural community to view favorably the teaching of the agricultural colleges. The bucolic mind is still sceptical of any enduring advantage likely to accrue to the farming community from this expenditure of men and means, ard one way in which their suspicions may be disarmed is by placing at the head of colleges men who have won their spurs not as chemists, but as agriculturists. It is because this Aberdeen appointment is so inconsistent with this ideal that it has excited so much adverse criticism,

factory, as is the case in the Chicago packinghouses; they are killed at the farms where they The carare purchased, and there eviscerated. casses are taken to Thornhill by rail, as it is found the bacon "keeps" much better when this is done than when the hogs are taken by rail alive to Thornhill and slaughtered there. The major portion of the trade is done in, what is called, in Scotland, Ayrshire rolled bacon, and, as this is a peculiarly toothsome morsel, there is always a big demand for Kirkpatrick's rolls.

Another feature of dairy economy which greatly impressed the visitors was the growth of the keeping of milk records in Scotland. The plan was only begun on a public basis in 1903. Its author and protagonist was the well-known John Speir. In the first year, only 300 Ayrshire cows and heifers were tested; last year, 18,000 were on the lists, and were officially tested by publicappointed testers during the season. The result of this work has been greatly to increase the value of Ayrshire cattle for dairy purposes. They have still an uphill fight to maintain in many markets with the Holstein-Friesian breed, but the Ayrshire is forging ahead, and, while we do not hope to establish records, we do expect to weed out the unprofitable cows and to build up our herds with cattle showing profitable records of daily production. Sales have recently been held which abundantly testify to the value of cattle whose milk records can be proved. The herd built up within the last two years by the late Andrew Mitchell, at Lochfergus, was dispersed three weeks ago, and 177 head of Avrshires of all ages and both sexes made the splendid average of £21 2s. 2d., one bull with a milk-record dam selling for 200 gs., or £210, to an Ayrshire lady who is building up a herd on a milk-record basis. Another dispersion sale took place a week later at Auchenbainzie, Thornhill, when an old-established herd, with a fine reputation for soundness of constitution, was sold, 114 head of all ages and both sexes making an average of £22 16s. 3d.

Some of our English visitors cannot be convinced of the merits of the Ayrshire. They pin their faith to the Shorthorn as the great generalpurpose cow, and they are quite right. But they forget that three Ayrshires can be kept for two Shorthorns, and that the Ayrshire can live, thrive and make money for her owner on pasture and under conditions in which the Shorthorn would starve. Square miles of land in Scotland would be out of cultivation were it not for the Ayr-She is distinctly the cheesemaker of the shire. small farmer's cow, and if a man cannot live by Ayrshires, he cannot live by any breed of cattle in the world. 'The milk-record cow is not a mere milking machine; she is a first-class, sound-constitutioned animal. We are not out to create records; we are determined to raise the average by weeding out the cattle which are only passengers, and neither add anything to revenue nor yet keep themselves. The two outstanding features of dairying in Scotland at present are this milk-record scheme and the development of the co-operative dairy system among farmers in North Ayrshire. These are both purely commercial indertakings and they are doing much to ad vance the dairying interest in this country "SCOTLAND YET."

of labor. The pigs are not slaughtered at the the breeders with whom we spoke, were considered The auctioneer, Andrew most satisfactory. Philps, of Huntingdon, Quebec, was in fine form, and in the short space of three hours dispersed to many points of the compass under two flags what had taken the Messrs. Turner over 15 years of careful and judicious breeding, systematic culling and official testing, to get together. Following is a list of all those selling for \$100 and over, with the name and address of the purchaser

FOUNDED 1866

Scotland Princess 2nd, calved 1906; R.

Ness, Howick, Que. \$ 475 White Floss, 1900; Wm. Hunter, Grimsby, (for a United States breeder) 450

White Floss 2nd, 1903; D. A. McFarlane, 200

Kelso, Que. Whitevale Lady, 1903; John McKee, Nor-375

wich, Ont. ... Sybella of Springbank, 1905; John Sher-

win, Cleveland, Ohio 425 Briery of Sprinbank, 1906; R. R. Ness ... 1.000Jemima of Springbank, 1906; R. R. Ness. 360 Alice of Kerwood, 1904; John Sherwin 400 Briery 2nd of Springbank, 1908; Wm.

Hunter, for U. S. breeder 1,750 Buttermaid of Craiglea, 1908 ; John Sher-

300 win Floss of Springbank, 1908; R. R. Ness. 300 Springbank Lily, 1910; John McKee 300 Springbank Phyllis, 1911; R. R. Ness 630 Briery Queen of Springbank ; Wm. Hunter,

for U. S. breeder ... 700 Nora, 1906; John Sherwin 200 Scotland Princess 2nd, 1901 ; H. C. Ham-175

ill, Boxgrove, Ont. Peach of Ingleside, 1905; R. R. Ness 175 White Violet, 1899; D. A. McFarlane 175 200 Dolly, 1902; John Sherwin ... Buttercup, 1905; John Sherwin 200 Grace, 1907; John Davis, Jordan, Ont ... 100 Alice of Springbank, 1907; John Davis... 100 Alice of Kerwood (not catalogued); J 105

Waffler, Wheeling, West Virginia Flora of Needpath, 1903; John Sherwin. Flora of Metcalfe, 1899; Robert Hanna, Barton, Ont.

Grace of Wellington, 1906; R. R. Ness Beauty of Craiglea, 1908; John Sherwin.. Princess of Springbank, 1908; D. Thomp-

son, Cainsville, Ont. Jemima of Springbank, 1907; Laurie Bros., Malvern, Ont. Lady Jemima of Springbank, 1908; D. A.

120 McFarlane Edith of Springbank, 1908; John Sherwin 225Canadian Girl of Hickory Hill, 1907;

110 Laurie Bros. Helena of Springbank, 1908; D. A. McFar-180

lane White Floss of Springbank, 1909; R. R.

225Ness Queen of Springbank, 1909; H. C. Hamill.. 150Lady 2nd, 1909; John Sherwin 175 Pansy of Springbank, 1909; Wm. Dolson,

Glanford, Ont. 150Rose of Springbank, 1909; R. Hanna 125Springbank Rosebud, 1910; Wm. Hunter, for U. S. breeder

200

150

145

200

100

175

DAIRY MATTER-AYRSHIRES AND MILK RECORDS.

During the past week, the British Dairy Farm-Association have been touring in the Southwest of Scotland, visiting, also, some places in the West, including the Agricultural College and Dairy School at Kilmarnock, and finishing up in Edinburgh. Last year the conference was held in Holland, and some account of what was there seen was given in one of these letters. The places visited this year have included farms and herds like those of the Duke of Buccleuch and Queensberry, at Thornhill; the Royal Crickton Institutions at Dumfries; Sir Robert Buchanan-Jardine's Galioway herd at Castlemilk, Lockerbie; Sir Mark J. McTaggart Stewart's Ayrshire farms and dairies in Wigtownshire, and Lord Rosebery's farms and herds at Dalmeny, in Midlothian ; also creameries like that of the United Creameries, Ltd., at Dunragit; the Co-operating milk-collecting depots at Stewarton, in North Ayrshire; the milkrecord herd of Ayrshires at Netherton, Newton-Mearns, in Renfrewshire; but possibly, what most of all impressed the visitors was the baconcuring factory of Messrs. Kirkpatrick & Sons. in Thornhill, Dumfriesshire. This is a miniature Union Stock-yard , About 500 pigs are dealt with every week. Every part of the animal is utilized in one form or another, and the whole business is carried on under the most up-to-date conditions as regards cleanliness and the saving

Turner's Ayrshire Sale.

The dispersal of the Springbank herd of recordbreaking and R. O. P. official Ayrshires, owned by A. S. Turner & Son, of Ryckman's Corners, Ont., at the farm on Tuesday, June 18th, brought forth a few surprises in the matter of prices. The world's champion two-year-old heifer, Briery 2nd of Springbank, now in her four-year-old form, established a world's record auction sale price for an Ayrshire cow, by going to the bid of Wm. Hunter, of Grimsby, for a United States breeder, for the splendid price of \$1,750. A 3-months-old daughter of hers went to the same bidder for \$700, and a yearling daughter went to R. R. Ness, of Howick, Que., for \$630; while, to the same stables at Howick went Briery of Springbank, the dam of the above-mentioned champion, for \$1,000. Seldom has it been our privilege to attend a sale where the cattle were brought down in such nice condition, and the crowd in attendance, while not a large one, was a representative Ayrshire gathering, many being present from Quebec and from several States of the Union. told, there were 72 head sold for a grand total of \$15,365, an average for the lot, which included a number of calves, of \$213.40. Thirty-four in milk, a number of which were two-year-old heifers. brought \$9,745, an average of \$286.60. Twenty-seven heifers, from calves up to 2 years, brought Ness for \$500 Prices realized, in the approximate

410	
	Springbank Duchess, 1910; Geo. Kendrick,
150	Ancaster, Ont
	Springbank Daisy, 1910; Geo. R. Wales,
150	Beverley, Mass
190	Princess May, 1910; Geo R. Wales
	Stately of Springbank, 1911; Geo. R.
155	Wales
	White Primrose, 1911; E. D. Hilliker,
100	Burgessville, Ont.
	Pearl's Floss of Springbank, 1911; R.
155	Hanna
	Flossy of Springbank, 1911; James
150	Darke, Hamilton, Ont.
	Flora of Springbank, 1911; J. Jones,
105	Allenberg, N. Y.
100	White Pansy, 1911; J. Jones
1 5 0	Speck 2nd of Springbank, 1911; John
150	McKee
100	Beulah of Springbank, 1912; John Waffler
145	Buttercup of Springbank, 1912; Wm. Hun-
140	ter, for U. S. breeder
125	Buttermaid of Springbank, 1912; John
1 20	Waffler
100	Wafflor
100	Waffler Dominion Boy of Springbank ; W. Vallean,
150	Percy, Ont.
100	White Prince, 1911; John Wilson, Simcoe,
100	- Ont

What is said to have been an unparallelled situation in the history of the Wellington Rifles regiment, developed before the recent annual military camp at Goderich, Ont. Every company was short of men, and one, the Erin Company, \$1,122.50, an average of \$163.80. Ten young refused to go out at all. Two explanations are bulls, from calves up to one year, brought storr.50, an average of \$69.75. The stock hull, imp. Lessnessock Forest King, went to R. R New for \$55me Drives realized in the analysis of the stock of the other that the men were too busy terrs the work on the farms.

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JUNE 27, 1912

THE FARMER'S ADVOCATE

\$ 1,900

Horses and Cattle Sold at Ormstown, Que.

Following our report, in last week's issue, page 1134, of the successful sales of pure-bred stock, on June 14th, under the auspices of the District of Beauharnois Stock-breeders' Association, we give herewith the list of sales and purchasers.

CLYDESDALES.

Following is a list of the Clydesdales sold at the Ormstown, Que., sale, June 14th, 1912:

Consigned by R. J. Ness, Howick, Que. : Nell Bowie (imp.), 4 years; J. O. Sher-

Burton, N. S. Dusky Maid (imp.), 3 yrs.; A. Burpee.....

Bell Grierson (imp.), 3 yrs.; A. Burpee..... Bell Grierson (imp.), 3 yrs.; P. Ryan, Brewster, N. Y. Mildred of Allan Fern (imp.), 2 yrs.; R.

Anderson, Riverfield, Que.

Lincluden Maggie (imp.), 2 yrs.; George White, White's Station ...

Consigned by D. Pringle, Huntingdon, Que. : Polly of Winton Hill, 2 yrs.; John Calhoun,

Dundee, Que. ... \$ 375 Consigned by D. J. Greig, Allan's Corners, Que. :

Pair of draft mares; Macdonald College,

Que. \$ 600 Pair of geldings ; John McDiarmid \$ 600 600 HOLSTEINS.

Consigned by Neil Sangster, Ormstown, Que. : Madam Dot 3rd's Princess Pauline De Kol;

Mayflower De Kol; Arch. McNeil, Ormstown, Que. ...

Pauline Posch ; Alex. Younie, Brysonville, Que.

Rhoda's Queen 2nd ; Robert Howden, St. Louis Station, Que.

Midlummer of Ormstown ; John McEwan, St. Louis Station Indulge Posch; F. E. Came

Blackbird of Ormstown; R. G. Dunn, Melbourne, Que.

105Mayflower Posch; Dr. J. McNeil, Franklin, Que. ... 135

Average, \$165.

Consigned by John J. Alexander, St. Louis Station, Que. : Lady Vera du Vere; John McRae, Howick, Que. ... \$ 155 Consigned by John McRae, Howick, Que. : Clinton Etilka De Kol; J. J. Alexander... \$ 155 Consigned by J. J. Tannahill, White's Station, Que. : Maud of Riverview ; Jas. Sangster, Orms-

raighness in Snowdrop 4th; John Sherwin.	. 275
angurae Snowlake: John Sherwin	950
Reacterial white Rose A A Sagandorf	595
Hector Gordon How-	
ick, Que.	500
Readenan Nora; W. F. Kay	200
reauchan violet : John Sherwin	200
aran 4th : John Sherwin	005
Munan Beauty 11th : P. Ryan	475
Junali Dandy 10th : P. Ryan	550
unan Unerry 10th : Hector Gordon	500
millenan Primrose: Brantford Farms	500
Intenall Dairymaid: Brantford Farms	500
hreave Snowdrift; Mrs. F. D. Erhardt,	000
Berlin, N. H.	400
	400
Average, \$402.	\$ 6,435
	\$ 0,400
Bulls.	
lobsland King of Hearts; J. A. Bibeau,	
Ste. Anne de Bellevue	\$ 550
uchenbrain Sea Foam : J. K. Jones	475
inlayston Santoy; McMillan & Leggat.	
Trout River	375
	010

Craigbrae Lord Rosebury ; John Sherwin... 500

Average, \$475.

475

475

375

300

355

\$ 1,650

300 - 1

Consigned by Hector Gordon, Howick, Que. : Cows.

Monkland Snowdrop 4th (imp.); McIntyre Bros., Sussex, N. B. \$ 525 G Stockerton Primrose 3rd (imp.); Brant-

ford Farms 1,000 Average, \$762.50. \$ 1,525

260	Three-year-olds.	
175	Barcheskie Lily 13th (imp.); Jas. Ben-	
	ning, Williamsport, Ont \$	275
130	Palmerston Hyacinth 3rd (imp.); Brant-	100
175	ford Farms Stonehouse Fancy; Brantford Farms	40 0 6 0 0
300	Average, \$425. \$,275
	Two-year-olds.	
$\frac{245}{125}$	Lily of Beith ; Brantford Farms	250
105	ick, Que	175
135	Average, \$212.50. \$	425
100	Bull-2 years.	
,650	White Hall Fell Trader (imp.); P. D. Mc-	
ouis	Arthur, North Georgetown\$	325
	Consigned by P. D. McArthur, North Geotown, Que. :	orge-
155	Cows.	
155	Cherrybank Eva 2nd; J. B. Barrett, St. John, N. B	250

White Hall Fell Trader (imp.); P. D. Mc- Arthur, North Georgetown	3 3 2 5	
Consigned by P. D. McArthur, North G town, Que.:	eorge-	R
Cows.		
Cherrybank Eva 2nd; J. B. Barrett, St. John, N. B	250	в
falo, N. Y Darling Daisy; J. K. Jones, Utica, N. Y.	$\begin{array}{c} 250 \\ 150 \end{array}$	S

\$ 650 S Average, \$217. mald

E.	1173
Two-weep and track	
Two-year-old Heifers. Springbrook Jeanette; Wm. Hunter, Max-	
ville, Ont.	3 200
Springbrook Winnie; Wm. Hunter	275
Average, \$237.50.	475
Yearlings.	
Springbrook Bridesmaid; Macdonald Col-	
lege \$ Springbrook Mina; Macdonald College	
	175
Average, \$180.	360
Bulls.	
Auchenbrain Good Gift, 5 yrs.; Hector	
Gordon S	475
Springbrook Comrade, yearling; John Brown	0.8
	65
Consigned by J. P. Cavers, Ormstown, Qu	.:
Cows.	
Susan; D. J. Greig, Brysonville	100
Fancy of Ormstown, 1 yr.; Macdonald	90
College	100
L	
Average, \$96.66. \$	290
Bull.	
Ormstown Lad; John Brown \$	85
Consigned by S. A. Cleland, Hemming	gford,
Que. : Cows.	
Jenny of Maple Hill; E. S. Gifford \$	115
Gem of Maple Hill; John Macfarlane, How-	220
ick, Que	75
Dolly of Maple Hill; Macdonald College	200
Average, \$130.	890
Consigned by James Bryson, Brysonville,	010 .
Iola of Point Round, 3 yrs.; R. R. Ness \$	280
Bulls, 1 year.	
Free Trader of Point Round ; S. McColl,	
Auburn, Me \$	60
Sir Thomas of Point Round ; R. R. Ness	60
Average, \$60.	120
Consigned by D. A. McFarlane, Kelso, Qu. Edith McNab 2nd of Elm Shade ; Macdon-	ð. :
ald College	125
May of Kelso ; John Brown	100
Average, \$112.50. \$	225
Bull, 6 months.	
Rosebud's Monarch of Kelso; S. A. Cleland \$	65
Consigned by D. T. Ness, Howick, Que. :	
Yearling.	
Buttercup of Millbrook; Hector Gordon \$	75
Consigned by Duncan McEwan, St. I.	ouis
Station, Que. :	
Two-year-old.	1 # 0
Silver Queen; Hector Gordon\$	150

		52 55 Two-year-old.		Minnie of the Briers; Hector Gordon 125
	Laura Daisy De Kol; M. McRae, Hem-	Cherry Bank Queen; J. B. Barrett 00 Dalpeddar Lady Taylor; J. K. Jones		Average, \$137.50. SUMMARY.
	Average, \$134.25. \$ 5 Sixteen cows realized \$2,497; average, \$156	Yearling Bulls.		50 23 cows realized
	AYRSHIRES. 'Cows. ('onsigned by R. R. Ness, Howick, Que. :	Cherrybank Milkman Again ; R. R. Ness Cherrybank Victor ; John McFarlane, How ick, Que	-	00 20 yearling heifers 6,900 345 2 bulls over 2 years 800 400 60 13 young bulls 2,600 200
	Old Hall Beauty 6th (imp.); P. Ryan,	Average, \$80.	\$ 1	60 85 \$27,785 \$327
	Brewster, N. Y \$ 1,10 Palmerston Lady Mary (imp.); Brantford	Consigned by John W. Logan, Howick,	Que.	
	Farms, Groton, Conn			Coming Show Dates.
	Irena; Macdonal College, Que	MISS Hall, J. K. JUICS		25 Royal Show, Doncaster, England—July 2-6. Highland and Agricultural Society Show, Cupar—
	Lady Flora 2nd; A. A. Sagendorf, Spen- cer, Mass 35	0 burn, Me 0 Morton Mains Belle (imp.); J. Jones, Au		50 July 9-12. Royal Aberdeen Agr. Society, Aberdeen-July 18.
	Barcheskie Winflower (imp.); John H.	burn, Me	4	25 Calgary Industrial—June 28-July 5.
		- Sumiyade Mayne 19th manner -	44	 ⁰⁰ Canadian Industrial, Winnipeg—July 10-20. Regina Exhibition—July 29-Aug. 3.
	Average, \$512.50. \$ 3,07	5 Average, \$425.	\$ 1,30	⁰⁰ Inter-Provincial, Brandon, ManJuly 20-26.
	Two-year-old Heifers.	Yearlings.	@ 0/	Saskatoon Exhibition—Aug. 6-9. Inter-Provincial, Edmonton—Aug. 12-17.
	Sherwalton Mains Beauty 3rd; P. Ryan\$ 1,10 Redhills Nameless Charm; Brantford Farms 1,10 Munton Mains Bhoronicus: Brantford Farms 90	Voorling Bulls	\$ 30	Canadian National, Toronto-Aug. 24 - Sept. 9. Dominion Exhibition, Ottawa-Sept. 5-16.
	Auchlochan Moonshine; A. A. Sagendorf 32	5 Sunnyside Good Time 2nd; Brantford	0 1 -	Western Fair, London, OntSept. 6-13.
	Netherhall Kate 22nd; W. F. Kay, Phil- ipsburg, Que			 Vancouver Exhibition—Aug. 10-17. St. John, N. B. Provincial Exhibition—Sept.2-7.
	Netherhall Blossom 10th; A. A. Sagendorf 32. Morton Mains Chlorissa 2nd; John Brown,	Average, \$112.50.	\$ 22	What Good Roads Mean.
	Howick, Que 323		Rive	r, In the Scholars' Competition, instituted by the
	Gladsome Maid ; John H. Baker			Canadian Highways Association, for prizes do- nated by W. J. Kerr for the best essays on "What
1	- e 5 400	Miss Vernie; R. R. Ness	\$ 15	0 Good Roads Mean to Canada," the gold medal went to S. Cieman, of Toronto; the silver-gilt
	Average, \$600. \$5,400 Yearlings.	Auburn, Me.	25	
1	Europe I The Cleveland	('anada's Duchess ; Hector Gordon	30	
5	Ohio \$ 400	Lessnessock Brownie; R. R. Ness	$\frac{40}{27}$	5 B. C., tied for third place, each being awarded
	Red Hill Guy Lass: J. K. Jones, Utica,		1.37	 silver medals by the judges. Seventy other com- petitors were awarded silver pins.
	N. Y	Traingn' dear	2,001	- Transis usie mutilider privet build

THE FARMER'S ADVOCATE.

P. E. Island Notes.

At this date, June 17th, the crop is all in, except a few late turnips. There was a good growth during the latter part of May, but since June came in the weather has been cold, and Pastures, in some cases, are thin, growth slow. and this is also true of second-year hay meadows, but there are many fine fields of clover in evidence on the new meadows. Grain has come up finely. There is a fine appearance of fruit of all kinds, and there is promise of an average crop of apples, especially. Experts have been travelling through the country, giving illustrations in spraying, and, as a result, many more orchards this year will receive attention in this matter. Expert stockmen are also travelling through the country lecturing and holding stock-judging classes. An expert on poultry is holding a series of meetings to advance our poultry interests, especially along the line of getting our eggs to market in better con-Prices in all kinds of farm produce are dition. booming, except potatoes, which have dropped 30 per cent. in price lately. Beef cattle never were so scarce here, and local butchers find great difficulty in supplying their customers. The big meat dealers in Charlottetown are importing beef cattle from Toronto, as our best cattle are practically all disposed of.

The dairy business in the co-operative factories is being pushed. The high prices of last year, and the promise of higher prices this season, will stimulate dairymen to supply greater quantities of milk than usual. During a recent visit to our Branch Experimental Farm, we found things looking well, and the work of putting in the experimental plots just about completed. Many more comparative tests in all kinds of cereals are being carried on this year, and the plots of grain, at the time of our visit, were showing a good growth, and evidenced great care, and precision in The alfalfa plots sown last year had planting. made a fine growth, and will have had their first cutting by this time. The very good success of alfalfa at this Station is inducing many of our best farmers to experiment with it, and we hope yet to see it extensively and profitably grown here.

This Station, on account of the excellent results obtained by Supt. Clark, is beginning to attract the attention of farmers, and is inducing them to visit it and see for themselves the success that has resulted from improved methods in the cultivation of some valuable plants that were not thought possible or profitable on Island soils. The vegetable garden, and aboretum, with its variety of trees and shrubs, and the profusion of flowers surrounding the residence and along the walks, is something worth going miles to see

A poultry plant will be added this season, which will be managed on the "colony-house principle, which will be an education to our farmers in the profitable management of poultry-a growing and most lucrative business that will bear much greater extension.

American Holstein Association Annual Meeting.

on the upland. Pastures are exceedingly good, but for the winter feed the farmers are basing their great hopes on the hoed crop. "SUNBEAM." Leeds Co., Ont.

Milk Measuring Stick Illegal.

Last week's issue of "The Farmer's Advocate" contained an article exposing a device sold in one section of Eastern Ontario for weighing milk by a measuring stick. Since its publication, the following correspondence was received from the Department of Inland Revenue, Ottawa, which, it will be seen, has taken prompt and commendable action for the protection of any others who might be imposed upon :

Editor "The Farmer's Advocate":

I beg to enclose herewith copy of a circular letter, which has been sent to the Inspectors of Weights & Measures throughout Ontario, in connection with the "Eureka Measuring Stick," by which you will see that it is not a legal measure under the Weights & Measures Act, and its use for trade purposes is illegal. Inspectors will confiscate any found in use.

WM. HINSWORTH, Acting Deputy Minister.

Department of Inland Revenue, Ottawa.

EUREKA MEASURING STICK.

To Inspectors of Weights & Measures :

Sir,-I beg to advise you that certain parties are selling a graduated stick called the "Eureka Milk-weighing Scale," and accompanied with a pamphlet advertising the same to be an accurate and quick means of weighing milk. As this instrument has not been and cannot be admitted to verification, you are advised to warn all agents and dealers offering the same for sale, and to seize all such "sticks" found in use for purposes of trade, making your report under Section XI. of the General Instructions.

WM. HINSWORTH, Acting Deputy Minister.

Topical Fruit Notes.

The fruit season opened this year over two weeks later than last year, and the first shipments of strawberries of any extent were made by the dealers on June 17th. The samples of early varieties, such as Michels, were poor, as usual, and were not able to displace the American berries on our larger markets. The Williams and later varieties, however, are turning out excellently, and should please the trade, if the growers will take pains to fill their boxes well. Raspberries are coming along well, in spite of winter freezing, and will produce over a medium crop. With other fruits, additional information from different parts of the district points to a medium

likely had a heavy crop last year, and this year had not strength enough to set their fruit. Those trees with us which did not bear last year, in spite of unfavorable weather at blossoming time, have this season from medium to heavy crops. To enlarge on the point of improvement of quality, we can also call thinning a grading process, as the fruit harvested is more likely to grade up better, thus also securing economy where grading is practiced.

Early thinning seems to give best results, say three or four weeks after the fruit sets. amount or extent of thinning should be controlled by the age and vigor of the tree and branch, the amount of fruit set, and the susceptibility to diseases, such as soft rot of plum or peach.

In the Niagara district the thinning of peaches is practiced to quite an extent, but other fruits are neglected. In peaches, the practice is extended mainly to heavy-bearing, white-flesh varieties, such as the Leamington, because the best grades of white-flesh peaches are comparatively cheap, and there is little demand for the poorer grades, whereas there is a good demand for the poorer grades of the high-priced, yellow-fleshed peaches. For commercial purposes, from four to five inches is a good distance to thin peaches. The cost depends on the size of the tree, crop, and cost of labor. One man ought to thin ten to twenty average trees in one day, at \$1.50, and do a good job. Pears often could be thinned with profit, and so could some of the heavy-bearing larger varieties of plums, such as Burbank an W. R. D. Pond's Seedling.

Cut Worms and Army-worms.

Two species of caterpillar, the cutworm and the army-worm, have been considered by the officials of the Experimental Farms to be of sufficient interest to the crop-growers in Canada to warrant the preparation of a bulletin upon them for public distribution. These two common enemies of crops are credited with causing every year damage amounting to a large sum of money, reaching, in some seasons, hundreds of thousands of dollars. They are both night feeders, and are most destructive early in the season, when vegetation is tender and, therefore, easily eaten off. Clean cultivation and the encouragement of birds are recommended as factors in the control of cutworms. The distribution of poisoned bran and fresh clover is also advised, where practical, whenever the worms are detected. To check the progress of army-worms on march, furrows with holes dug at intervals, are said to be effective. This illustrated bulletin of 29 pages, No. 3, of the Division of Entomology, and No. 70 of the Experimental Farms, was prepared at the request of the Dominion Entomologist, by his Chief Assistant, Arthur Gibson. It is published by direction of the Hon. Martin Burrell, Minister of Agriculture. Copies may be obtained by applying to the Publications Branch, Department of Agriculture. Copies may be obtained by applying to the Ottawa.

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The 27th annual meeting of the Holstein-Friesian Association of America was held at Syracuse, N. Y., June 5th, with a personal attendance of 351, while 1,671 were represented by proxy. The total membership was reported as 5,160, an in-crease of 812 over the previous year. The appropriations for the year include \$5,500 for prizes at fairs and dairy shows; \$15,000 for prizes for records made under the Advanced Registry system, and \$15,000 for the work of the literary committee. An increase of \$5,000 in the appropriation for prize-money was granted. The secretary's report showed that the total business of the year amounted to \$104,007, and a balance of \$49,807 was remitted to the treasurer. Officers elected were : President, A. A. Hartshorn, Hamilton, N. Y.; First Vice-President, W. A. Matheson, Utica, N. Y.; Second Vice-President, John B. Irwin, Minneapolis, Minn. ; Secretary and Editor, F. L. Houghton, Brattleboro, Vt.; Treasurer, Wing R. Smith, Syracuse, N. Y.; Superintendent of Advanced Registry, Malcolm H. Gardner, Delavan, Wis.

Late Seeding in Leeds Co.

The prospects for a bountiful harvest are very poor, indeed, in this part of Ontario, owing to the unfavorable weather conditions which have existed all spring; and though now slightly im- at the expense of another; and to relieve a strain proved, still it is almost too late to benefit us, on the tree, and thus promote longevity. There as far as the grain crop is concerned. We have is no doubt that our markets are getting too had so much rain, the dry day, with sunshine, being indeed the exception. Many of the farmers in this locality have not yet finished seeding-cannot get on the land. In a drive across country on June 16th, I saw acres with the water lying on it, a regular barren waste; cannot be cultivated for some time, even if dry weather continues. There is still a great deal of planting to our plums which were laden with blossom this be done. Hay crop promises to be fair, especially spring failed to set their fruit. Such trees yes

crop only.

The express companies have put on their special fruit schedule, and promise to increase their efforts to give more satisfactory service. In this regard, the Dominion Express seem more ready to other transportation companies.

Pre-cooling is being talked of once more. This question, for some reason, had dropped into the background-probably from lack of organization on the growers' part to press their claims, and from apathy on the part of the Government officials to push the matter if they considered it of sufficient importance. Anyhow, it seems that another year will pass without anything being done.

* * *

The peach crop in some sections of the district has shown up better than anticipated, and thinning is being done on some varieties that have loaded more heavily than others.

Thinning fruit is a problem of importance in It is primarily a regulatorchard management. ing process, and, where practiced, is done with a threefold purpose in view, namely, to improve quality by lessening the quantity; to secure annual crops by not devitalizing the tree one year much poor fruit, one of the causes being due to Mr. Newman, will secure to anyone a copy, gratis, overbearing, and it is time that our poor fruit is reduced to a far greater extent. Neither is there any doubt that a heavy crop will devitalize a tree, which will not stand a severe winter as well as a tree that has borne very little. This, I think, is also an explanation of why so many of intendent of the Agricultural Extension Depart-

Crops Late in York County.

Spring crops are looking well in King Townmeet the requirements of the fruit-growers than ship, York Co., Ont. Fall wheat was badly killed in many places, but some good fields are headi out. New meadows were somewhat winter-killed old meadows are looking well. Have had much rain and little sunshine; more needed to bring the crops forward; will be late in this section. The root crop is very late in getting planted, on account of extreme rainfall. Wheat will be two weeks late, unless weather turns warmer. S. LEMM.

York Co., Ont.

An admirable report, in booklet form, on the Canadian Seed-growers' Association and its work, including a dozen instructive illustrations, revised constitution, by-laws and regulations, has been issued by the Secretary, L. H. Newman, Canadian Building, Ottawa. It contains a lucid discussion of what is meant by good seed, the choice of variety, changing seed, and plant improvement. The advantages of membership in the association, and the conditions attached to the registration of seed for sale, are fully set forth, together with a list of valuable articles and publications dealing with the subject. A post-card request to the secretary, of this excellent volume.

W. J. Kennedy, Professor of Animal Industry at the Iowa State College, has been appointed superused at that institution, to succeed P. G. Holden,

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MARKETS

Toronto.

At West Toronto, on Monday, June 24, receipts numbered 109 cars, comprising 1,940 cattle, 745 hogs, 597 sheep, 90 calves, and 40 horses. Quality of cattle good; trade good on butchers', but slow on exports. Export steers, \$8; export bulls, \$6.50; choice butchers', \$7.50 to \$8; good, \$7.25 to \$7.50; medium, \$6.75 to \$7.25; common, \$6 to \$6.50; cows, \$4.50 to \$6.40; milkers, \$45 to \$70; veal calves, 7c. to 9c. per lb.; light sheep, \$5 to \$5.50; rams, \$3.50 to \$4; spring lambs, \$9 to \$9.50. Hogs, fed and watered, \$8.25, and \$7.90 f. o. b. cars.

REVIEW OF LAST WEEK'S MARKETS The total receipts of live stock at the City and Union Stock-yards last week were as follows:

	City.	Union.	Total.
Cars	160	138	298
Cattle	1,769	1,771	3,540
Hogs	4,298	4,702	9,000
Sheep	1,484	409	1,892
Calves	766	245	1,011
Horses	11	154	165

The total receipts of live stock at the two markets for the corresponding week of 1911 were as follows:

	City.	Union.	Total.
(ars	223	255	478
Cattle	2,346	3,969	6,315
Hogs	5,797	4,437	10,234
Sheep	2,336	1,513	3,849
Calves	753	137	890
Horses	1	21	22

The combined receipts of live stock at the two markets for the past week show decrease of 180 cars, 2,775 cattle, 1,234 hogs, and 1,957 sheep; but an increase of 121 calves, and 143 horses, compared with the corresponding week of 1911.

Receipts of live stock last week were not as large as for some time past, as a consequence, prices advanced materially for all stall-fed cattle of good quality.

Exporters.-Distillery-fed steers, \$8 to \$8.40; farmers-fed exporters, \$7.85 to \$8.15; bulls, \$6.25 to \$6.75. About 350 steers and bulls were bought for export at the above quotations.

Butchers'.-Choice stall - fed butchers' cattle sold at \$7.75 to \$8.30 per cwt.; loads of good, \$7.50 to \$7.80; medium, \$6.85 to \$7.50; common, \$6 to \$7; cows, \$4 to \$6.75; canners', \$2.50 to \$3; bulls, \$4 to \$5.50.

Milkers and Springers .- Owing to there being no demand from Montreal and Quebec, the market for milkers and springers dull, with prices lower for common

THE FARMER'S ADVOCATE.

track, lake ports; Ontario No. 2. 48c. to 49c.; No. 3, 47c. to 48c., outside points; No. 2, 50c. to 51c., track Toronto. Rye-No. 2, 85c. per bushel, outside. Buckwheat-\$1 per bushel, outside. Peas-No. 2, \$1.20 to \$1.25 per bushel, outside. Barley-For malting, 87c. to 88c. (47-lb. test); for feed, 60c. to 65c., outside. Corn-No. 3 yellow, 871c., track, bay ports. Flour-Ninetyper-cent. winter-wheat patents, \$4 to \$4.10, seaboard; Manitoba flour-Prices at Toronto are: First patents, \$5.70; second patents, \$5.20; strong bakers', \$5 in jute; and \$5.10 in cotton.

HAY AND MILLFEED.

Hay.-Baled, car lots, track, Toronto, No. 1, \$21 per ton; No. 2, \$19. Straw.-Baled, car lots, track, Toronto, \$9 to \$10 per ton. Bran.-Manitoba, \$23 per ton; shorts,

\$26; Ontario bran, \$24 in bags; shorts, \$27, car lots, track, Toronto.

COUNTRY PRODUCE.

Butter.-Market easy; prices unchanged. Creamery pound rolls, 27c. to 28c. creamery solids, 25c.; separator dairy 24c. to 25c.; store lots, 21c. to 22c. Eggs.-Strictly new-laid, 24c., and firm Cheese.-New, 15c. for large, and 151c. for twins.

Poultry.-Receipts light; prices about steady. Dressed, turkeys, 18c. to 20c. last year's chickens, 18c. to 20c.; spring chickens (broilers), 40c. to 45c. per lb. Potatoes .- Ontario potatoes, car 'lots, \$1.60; New Brunswick Delawares, \$1.80; English potatoes, \$1.40 per bag, car lots, track, Toronto. Beans .- Market firm, at \$2.65 for

primes, and \$2.75 to \$2.80 for handpicked.

FRUITS AND VEGETABLES.

Receipts of home-grown fruit and vegetables are becoming larger as the season advances. Canadian strawberries were so plentiful on Wednesday that prices fell from 17c. to 8c. per quart, by the case. Prices quoted were as follows : Asparagus, \$1.25 per dozen; beans, \$2.50 to \$2.75 per hamper; cucumbers, per hamper, \$2.50; onions, Egyptian, per sack, \$2.75; spinach, 50c. per bushel; new American potatoes, \$4.50 to \$5 per barrel; tomatoes, Florida, \$3.50 per case; lemons, per case, \$3.75 to \$4 per case.

TORONTO SEED MARKET.

The season is past for seeds, therefore we give no quotations.

HIDES AND SKINS.

E. T. Carter & Co., 85 East Front street, have been paying the following prices : No. 1 inspected steers and cows, 13c.; No. 2 inspected steers and cows, 12c.; No. 3 inspected steers, cows and bulls, 11c.; country hides, cured, 111c. to 12c.; green, 101c. to 11c 13c. to 18c.; sheep skins, \$1 to \$1.50; horse hides, No. 1, \$3.25; horse hair, per lb., 33c.; tallow, No. 1, per lb., 51c. to 61c.

Montreal. Live Stock .- Supplies of cattle were larger last week, and as a result butchers were able to fill their requirements without difficulty, although they had to pay high prices, nevertheless. The quality of the offerings was very good indeed, a considerable improvement having been noted as compared with previous offerings. The choice stock sold as high as 81c. per lb., while fine stock sold around 8c., and good butchers' at 71c. to 8c., medium at 7c. to 71c., and common down to 51c. or 6c. per lb. Choice steers and heifers, mixed, brought 8c. per lb., and down to 71c., this being for Manitoba domestic stock. Choice bulls sold at $7\frac{1}{2}c$. to $7\frac{3}{4}c$. per lb., and butchers' cows at 7c. per lb. Milch cows sold at \$80 to \$90 each; medium, \$65 to \$75,

and springers, \$50 to \$60. Sheep were 5c. to 51c. per lb. for ewes, and 41c. to 4%c. for bucks and culls, while lambs sold at 61c. to 61c. per lb. Calves ranged all the way from \$3 to \$10 each, while hogs were 9c. to 91c. per lb., for best, weighed off cars.

Shipments from the port of Montreal for the month of June, to date, are 1,519 head.

Horses.-Dealers find a great deal of difficulty in getting sufficient horses to supply the demand. This is true particularly of heavy draft, and of very choice express horses. A fine team of heavy draft animals sold at \$900, this being an unusual price, however. The sale of Shetland, Welsh and Dartmore ponies was successful, the stock selling at \$50 to \$150 each. These ponies weigh from 400 to 500 lbs. each. Heavy draft horses, weighing from 1,500 to 1,700 lbs., \$300 to \$375; light draft, 1,400 to 1,500 lbs., \$225 to \$300; light horses, 1,000 to 1,100 lbs., \$125 to \$200, and light, inferior, and brokendown old horses, \$75 to \$100. Choice saddle and carriage animals, \$850 to

\$500 each. Dressed Hogs .- The market for dressed hogs was firm, and abattoir - dressed, fresh-killed stock sold at 121c. to 121c. per 1b.

Potatoes .- The new seed is said to be rotting in the ground from too much rain, and from the cold weather. small potato crop cannot well be afforded this year, coming after the partial failure last year, and the very high prices at which potatoes are now selling everywhere. Green Mountains were quoted here at \$1.75 per bag of 90 lbs., car lots, track. Smaller lots brought \$2

per bag, delivered. Honey and Syrup.—The market was steady, and demand not very brisk. White clover comb honey sold at 10%c. to 111c., and dark at 7c. to 8c. per lb. White extracted sold at Sc. to 16c., and dark at 71c. to 8c. Maple syrup was \$26 to \$27 for shorts; \$28 to \$30 per ton for middlings; \$34 to \$38 for pure grain mouille, and \$30 to \$32 for mixed mouille.

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Hay .-- Prices were slightly easier on some grades, owing, no doubt, to the grass. No. 1 hay, \$22 to \$23 per ton; No. 2 extra, \$20 to \$21; No. 2 good, \$19 to \$19.50; No. 3, \$18 to \$18.50; clover mixture, \$17 to \$17.50° per ton, carloads, track.

Hides .- Beef hides were 11c., 12c. and 13c. per lb.; calf skins, 17c. and 19c. per lb.; horse hides, \$1.75 and \$2.50 each; sheep skins, \$1.20, and lamb skins, 20c. each. Rough tallow was 11c. to 3c. per 1b., and rendered, 6c. to 61c. per lb.

Chicago.

Cattle.-Beeves, \$6.10 to \$9.50; Texas steers, \$6.40 to \$8.10; Western steers, \$6.50 to \$8.10; stockers and feeders, \$4.20 to \$6.75; cows and heifers, \$2.70 to \$8.10; calves, \$5.50 to \$8.

Hogs .- Light, \$7.20 to \$7.671; mixed, \$7.30 to \$7;72; heavy, \$7.20 to \$7.75; rough, \$7.20 to \$7.40; pigs, \$5.25 to \$7. Sheep and Lambs.-Native, \$3.25 to to \$5.60; Western, \$3.50 to \$3.60; yearlings, \$4.75 to \$7. Lambs, native, \$4.25 to \$7.85; Western, \$4.60 to \$8; spring lambs, \$5.70 to \$9.50.

British Cattle Market.

John Rogers & Co. reported cattle prices well maintained at 16c. to 164c. per lb.

BOOK REVIEW.

"Sheep Feeding and Farm Management," by D. Howard Doane, of the University of Missouri, is written for students of agriculture in universities and colleges, and for farmers and sheep feed-It will find its most useful place ers. as a reference book in the hands of those who desire directions for carrying on practical sheep feeding, and for students who wish a source from which to obtain proven plans of experienced sheep men. It will be particularly useful to students, however, as a reference from which to prepare outside assignments given in classes in Farm Management, Animal Husbandry, and Agronomy.

One of the most distinctive features of the book is that it was written after a thorough and extended scientific investigation of sheep feeding as related to farm management, and hence deals with every phase of the subject. It takes up the purchase of feeder sheep, the growing of the crops they consume, the methods or systems of feeding,-treating each system separately, thereby avoiding confusion to the reader,-and details for marloading,

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try at superepartolden, and medium. The market for late springers was so dull that a large number was sold for killing purposes. Prices ranged from \$40 to \$75, and only a few of extra quality reached the latter price. Veal Calves .- Receipts were liberal, with prices firm, at \$4 to \$8.50 per cwt.

with a few extra quality at \$8.75 and \$9 per cwt. Sheep and Lambs .- The market for

sheep remained strong, while that for lambs advanced from \$1 to \$1.50 per cwt. Light ewes, \$4.50 to \$5.50; heavy ewes, \$4 to \$4.50; rams, \$3 to \$4; lambs, \$9.50 to \$12.50 per cwt. Hogs.-Receipts were moderate, with

selects selling at \$8.60 to \$8.65, and \$8.25 to \$8.35 f. o. b. cars at country points.

Horses .- The trade in horses is reported as being fairly good at the different sale stables throughout the city, and good quality horses as being exceptionally high. At the Union Horse Exchange, Union Stock-yards, the sale was well attended by buyers from many points in Ontario, and as far east as Montreal, as well as many local business men from the city. Quite a number of horses changed hands, at the following prices Drafters, \$225 to \$275; general-purpose, \$175 to \$225; wagon and express horses, \$160 to \$225; drivers, \$100 to \$150; serviceably sound, \$30 to \$90 each.

BREADSTUFFS.

Wheat.-No. 2 red, white or mixed. \$1.05 to \$1.06, outside points; Manitoba No. 1 northern, \$1.13; No. 2 northern, \$1.091; No. .3 northern, \$1.061, track. lake ports. Oats - Canadian Western rouchs extra No. 1 feed, 50c, No. 1 feed, 190., \$6,25.

Cheese Markets.

New York, N. Y., 131c. to 151c.; butter, 19c., 22c., 24c., 261c.; Utica, N. Y., 144c., 144c.; butter, 264c., 27c., 274c.; Little Falls, N. Y., 141c.; Campbellford, Ont., 12%c., 12 11-16c.; Stirling, Ont. 12 9-16c., 12%c.; Brockville, Ont., 12%c., 12 5-16c., 12 sc.; Vankleek Hill, Ont., 12 3-16c.; Woodstock, Ont., 124c. to 12 9-16c.; Kingston, 121c.; Alexandria, Ont., 12 3-16c.; Ottawa, Ont., 12 5-16c.; Picton, Ont., 12 %c., 12 5-16c., 12 7-16c., 121c.; Napanee, Ont., 12 5-16c.; Cornwall, Ont., 12%c. to 12 7-16c.; Victoriaville, Que., 12 1-16c.; Belleville, Ont., 121c. to 12 9-16c.; London, Ont., bidding from 114c. to 12 9-16c., no sales; Canton, N. Y., 144c.; butter, 271c.; Kemptville, Ont., 12gc.; St. Hyacinthe, Que., 12c.; butter, 244c.; Cowansville, Que., 12 3-16c.; butter, 24%c. to 24%c.; Watertown, N. Y., 14c.

Buffalo.

Cattle.-Prime steers, \$8.50 to \$9.35;

butcher grades, \$4 to \$8.25. Calves .-- Cull to choice, \$6 to \$10.25. Sheep and Lambs.-Choice lambs, \$9 to \$9.50; cull to fair, \$6° to \$8.75; yearlings, \$6 to \$8.25; sheep, \$3 to \$5.75. Hogs .- Yorkers, \$7.80 to \$7.90; pigs, \$7.50; mixed, \$8 to \$8.05; heavy, \$8.05; roughs, \$7.50 to \$7.90; stags, \$6 to

steady, at 7c. to 71c. per lb. in wood, and 70c. to 75c. in tins, while maple sugar was 91c. to 10c. per lb.

Eggs .- The quality of the eggs was unusually good for the time of year, owing to the continued cool weather. Prices were 25c. per dozen for selects, in round lots, and 26c. for single cases. Straight receipts were 22c. to 221c., according to quantity, and seconds, 17c. to 171c.

per doz. Butter .- Prices in the country continue to decline, but are still too high for export, not one package having been shipped this season, so far. In the local market, choicest creamery was quoted at about 24 to 24 to 24 to per lb., wholesale, while seconds were about 1c. less. Demand from the West is now light, and the tendency of prices is downwards.

Cheese.-Shipments for export were 210,000 hoxes, to date, or 50,000 less than for the same period of last year. Finest Western quoted at about 13%c. to 131c. per lb., and finest Eastern at 13c. to 134c. per lb.

Grain .- The market for oats ranged around 521c. to 53c. per bushel for No. 2 Canadian Western; 511c. to 52c. for No. 1 feed, extra; 50½c. to 51c. for No. 1 feed; 50c. to 501c. for No. 3 Canadian Western, and 49½c. to 50c. for No. 2

feed Flour.-Prices were steady, at \$6.10 per barrel for Manitoba spring wheat, for first patents; \$5.60 for seconds, and \$5.40 for strong bakers' Ontario winter-wheat patents were \$5.25 to \$5.35 in wood; straight rollers, \$4.80 to \$4.90. Bags, 30c. less than in wood. being \$22 per ton, in bags, for bran;

keting, with reference to ping, shrinkage, care, and treatment after reaching market; in short, what it takes to make market toppers.

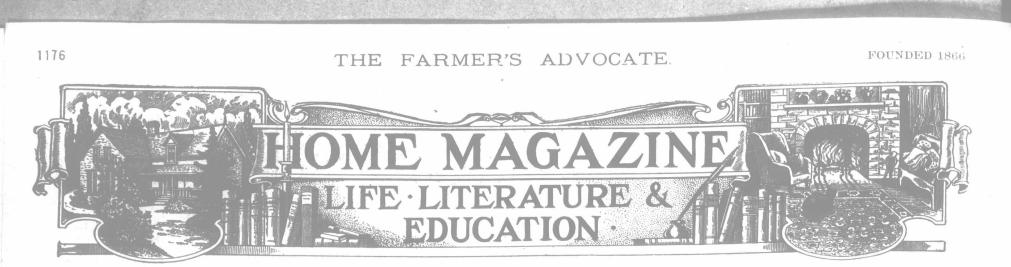
It quotes liberally from practical sheep men and successful farmers, contains plans for feeding barns and pens, as well as diagrams showing supply and market prices of sheep. It is abundantly illustrated.

Although the book deals primarily with feeding 'sheep, there is included a chapter devoted to methods that have proved successful in the hands of the general farmer for raising and marketing early lambs. Ginn & Co. are the publishers, and the book may be had through this office at \$1, postpaid.

GOSSIP

C. E. Rogers, breeder of Ohio Improved Chester White hogs, Ingersoll, Ont., informs us that he has a number of choice boars, fit for service, which he will dispose of at very low prices for immediate sale.

Gerald Powell, commission agent and interpreter, Nogent - le - Rotrou, France, writes that he has recently sold and shipped two Spanish (Catalonian) Jacks to James Love, Townsville, Queensland, Australia. Truman Bros., Bushness, Ill., also purchased from him some 20 head of Percherons, including the well-known gray stallion, Intitule (78981). He is a descendant of the Brilliant and Fenelon blood. This horse, and an especially Millfeed.-The market was unchanged, good mare, were shipped to England to be shown at Olympia.



How the Major Saved the Baby.

(By "Remount," Essex Co., Ont.)

At the time when the event occurred which I am about to relate, the "Great Lone West" was practically unknown to many people living in the Eastern Prov-Its reputation was most unsainces. No highway of steel brought it vory. into close touch with older settlements. Tales of depredations committed by lawless characters, unchecked by any Governmental powers; hardships endured by those who had ventured to make it their home; havoc wrought by hordes of insect invaders, bringing in consequence a state of starvation and hardship difficult to understand ; war, rapine, massacre and bloodshed by redmen or their half-blooded relatives far overbalanced any good pronounced regarding its fertility.

The terrible events connected with the slaughter of settlers in Minnesota was still fresh in the minds of those who had lost friends, relatives and property at that time. The rebellion of Louis Riel, with all its blood-curdling details, had recently become historical data. Many associated with him in his mad attempt to overthrow the Government and establish a Metis republic had found refuge from justice in Uncle Sam's domain, there awaiting an opportunity to rekindle the still glowing enuers of opposition to the powers at Ottawa. The , warlike Sioux, irritated by treatment received at the hands of adventurers, who intruded, unchecked, upon their reservation rights, led by a notable chief called Sitting Bull, went forth again upon the warpath, bringing as a result death to many persons and destruction to much property in the western Dakotas and Montana. While their depredations were confined entirely to the United States, yet they had many strong sympathizers on Canadian soil, and it was hard to determine what would result from any successes which might attend their operations. Therefore, Canadian authorities realized the necessity of exercising extreme caution and constant vigilance in repressing any

thought, by U. S. authorities, that their refreshed and strongly reinforced troops, now led by an experienced Indian fighter, would speedily bring the war to an end. But they failed to estimate the difficulties to be encountered or the shrewdness of the foe. With all his skill, Miles was unable to bring about a general engagement. As spring advanced they retreated still further into the almost inaccessible regions of the Big Horn mountains and there established a large encampment in one of nature's strongholds. Here the bold yet cautious Miles pursued them, hoping to force a battle. However, the indiscretion and overdaring of an under officer brought about a disaster, the nature and extent of which cast a gloom over the Republic, and materially delayed proceedings. News of Custer's defeat and the destruction of his troops was received by Sioux sympathizers with rejoicing, and the Metis boasted loudly regarding the prowess of their dusky relatives. But their joy was short-lived. Although momentarily checked by the shock, the infuriated soldiers, thirsting for revenge, pressed forward with greater impetus.

The Sergeant's Tale, or pushed with greater vigor. It was tured, but several hundreds, with a few until spring, or at least until other aswomen and children, led by Sitting Bull and his associate, Crazy Horse, fled to Canada, seeking safety. Word of this unexpected turn in affairs was brought by a, friendly freighter, filling our little company with anxiety. Extra precautions were now taken to secure our own safety and also prevent any possible outbreak on the part of hot-headed sympathizers. The utmost vigilance was likewise observed to prevent any surprise. Guards were doubled during the night, while none left the fort except on urgent business, and then never singly.

Happily for our welfare the fort stood upon high ground, commanding an extensive view of the surrounding country. Several days of anxious suspense were passed before a scouting party brought word regarding the approach of a band belonging to the fleeing Sioux, who had crossed the border some distance from our position.

What their intentions were we could not ascertain. Soon the sentry gave notice of their drawing nigh. Every eye was strained to catch a glimpse of the fugitives. They were a forlorn, dejectedlooking outfit, mounted upon sorry-look-



sistance would be forthcoming. So far as lay in his power this was granted, but any aid rendered was slight, since our stock of provisions was limited and could not be replenished for some months. The following day another demand was made but refused. This apparently incensed the hungry horde, and mutterings of a coming storm reached our ears. All told we numbered less than a score, while the Indians were several hundred in number and well armed. They knew we had sufficient food to satisfy their wants for a time, and what could be easier than the storming of the post and overcoming our small force ? But their chief hesitated. not desiring to bring about an open rupture with Canadian authorities, against whom he held no grievance. However, his desperate, half-starved followers were hard to restrain, and a scheme was suggested to make their demands imperative. The night following the refusal passed

quietly, and morning brought no evidence of coming calamity. Our usual garrison duties were performed, and a few warriors came to barter for food and then left. The little maiden had been seen chattering away to them in her childish

glee, but no attention was paid, since she had the freedom of the enclosure, going out and in whenever she so desired, without any thought of danger. The confidence placed in her associates within the barracks was extended to the redmen also. She exhibited no fear, nor manifested any partiality, no matter what might be their nationality or color. Hitherto the Indians had treated her with exceeding kindness, thus allaying any fear her mother might have had for her welfare.

However, this morning she was missing. A careful search over the different buildings failed to reveal her whereabouts. The now thoroughly alarmed mother ran hither and thither calling for her darling, but no answer. Every available man joined in the search, but their efforts were futile. Meanwhile it was noticed by some that the Indians avoided the searchers and remained away from the post. Through a friendly native we discovered the reason. Our pet had been carried away a prisoner and was being held as a hostage until their demands were granted. The mother was almost frantic, while a gloom like a funeral pall rested upon the garrison. The question each one asked was, "How could her release be effected ?" To attempt it by force would be sheer folly, and might result in her being removed from the district, or worse. Several of the most experienced men suggested entering negotiations looking to her This was acted upon, but release. the Indians, emboldened by what they had accomplished, refused any terms except surrendering all stores. To grant such terms was impossible, and so negotiations ended for that time. Night found her still a prisoner, and the mother almost distracted. Sleep departed from our eyelids. Very few sought places of repose. We were now prepared for any act of treachery. The

evidences of warlike tendencies, thus averting calamities similar to those of 1870. To secure this end the mounted force organized after the Rebellion to police our "Great West" was augmented, while a number of outposts were established especially along the boundary.

About this time I connected myself with the force, and was, with a number of others, stationed in a small fort not far from the boundary, on a trail leading northward from Fort Benton. Our duties were manifold,-collecting customs dues from freighters, maintaining order and enforcing law amongst nomadic peoples. keeping guard against the intrusion upon Canadian territory of any warlike bands, and restraining any filibustering outfit seeking to assist the Indians. While our duties were somewhat arduous and unpleasant, yet there was sufficient change and excitement to relieve the monotony. Our isolated position, so far as direct communication with the civilized world was concerned, rendered the news which we received meagre and often unreliable. This was especially true regarding proceedings at the seat of war immediately south of us. The intense sympathy of half-breed freighters was manifested by their reluctance to relate any successes by U. S. troops and their elation over re-However, we ascertained that verses. the Indians were gradually being driven further and further into the mountain fastnesses of South-western Montana. Here during a rigorous winter they maintained a stubborn resistance.

Roses From a painting by Mrs. Mary H. Reid, A.R.C.A.

While these events were taking place ing steeds, scarcely able to bear up under our little garrison was augmented to its "full capacity. A brave, cautious and experienced officer was placed in charge. With him came a young wife and child the latter a blue-eyed, flaxen-haired maiden, of some five summers, who speedily won the affection of every man and became a general favorite in the barracks.

Another summer rolled around, and almost without warning, winter, with more than usual severity, was upon us. Although, since the Big Horn victory, reverses had continually befallen the Indians, they still heroically maintained the unequal conflict, avoiding actual engagements, but harassing the troops by their usual tactics. Winter coming on they apparently thought that the soldiers would, as formerly, retire to shelter until spring, and thus ceased to exercise their usual vigilance. Taking advantage of this attitude the resourceful Miles For some months, owing to severe swooped upon them suddenly, completely weather, hostilities almost ceased, but surprising and demoralizing the Sioux were renewed on the opening of spring and warriors. The greater number were cap-

their emaciated riders, whose tattered blankets scarce sufficed to protect them from the biting blast. Slowly they filed past the post toward some bluffs lying north of us. A more miserable appearing company it is hard to imagine. The general appearance of both horses and men indicated the terrible hardships through which they had passed. So far as could be discovered they had no evil intentions in crossing the border; but, as there was no telling what a half-famished desperate band might do, we maintained our usual caution, allowing but few to enter the stockade at any one time. Having erected their teepees they made known their wants. Provisions were scarce in the encampment, and it took no small amount to supply them. For aging and hunting parties soon returned empty handed, since even that which might be chase was speedily consumed Their condition grew more desperate each day. deputation waited upon our commander, soliciting provisions to fide them over

long night passed, and when morning broke negotiations were renewed, but the deputation were informed that unless the proposition of the Indians was met the babe would die at sunset. This statement was kept from the now prostrated mother. Her father, brave man as he was, almost succumbed beneath the stroke. He might have averted the calamity, but only by being disloyal and supplied by friends or secured in the deserting his post. Would help not come from some quarter ? This was the silent prayer of many hearts.

The sun had passed the noonday mark alast the emiming of bells upon the frosty

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air betokened an approaching conveyance. In a few moments the Major of our troop and his driver appeared. A cheer of welcome was suppressed for the mother's Existing conditions were soon resake. vealed, and patiently we awaited an expression of his opinion. For a few moments he paced rapidly to and fro in front of the guard-room, then pausing suddenly said, "She must be saved at all cost." Quickly but coolly be detailed his plan; quietly we waited for orders. "Captain," he said, "call out your men." Immediately they responded. With a wave of his hand he commanded attention. Instructions were quickly imparted. The stillness was in-The following policy was to be tense. pursued: Every man of the little company, fully armed, was to be placed in the blockhouse over the gateway, which permitted a view of the Indian encampment, and it was also loopholed on three He proposed to go alone to the sides. tent of Sitting Bull, and by a bold personality rescue the child. If his plan miscarried certain death awaited us all. We knew that the war spirit had been aroused on the part of the Indians. For several days a number had worn their war-paint, while during the night could be heard the almost constant beating of the tom-tom, accompanied by the shrill, loodcurdling "ki yi" of the braves, but It was only when their act of treachery occurred that we had begun to realize our dangerous position. Yet every member of the garrison recognized the apparent foolhardiness of such a plan as that proposed by our brave commander. The captain began to expostulate but was silenced by the remark, "Time permits of

The sun was little more than a handbreadth above the horizon, when, after giving the command to forget him and defend ourselves in case he were attacked, dressed in full uniform, with revolver in his hand, he stepped forth from the main gateway, which closed behind him with an ominous click. His last words were, "If you see me fire, blaze away. It is your only hope of salvation, and that a slight one. Never mind me; I will take care of myself." Majestically he strode along as if there were no danger near. Fearfully we watched his receding form as he passed to what appeared certain death. The Captain's wife knelt in prayer for his safe-keeping and return.

no delay.'

Quickly he drew near to the first group of teepees, through which he must pass to reach his destination. We observed the Indians scanning his approach closely, while here and there individual rifles were raised but lowered again without firing. With every such move we instinctively grasped our weapons and closed our eyes that we might not see him fall. He disappeared from view among the teepees,

THE FARMER'S ADVOCATE

The Windrow.

There is, truly, nothing new under the Recent excavations made by archsun. æologists at Pompeii have brought to light a "thermopol," or kind of grogshop, within which were tables, chairs, and many amphora, some of glass, some of bronze. "Most of the amphoræ are tilted over," says Mr. Hartt, "seeming to indicate that some decanting process was going on when the cataclysm overwhelmed the city. The boiler looks as good as new, even retaining the little chain that attached its cover to it. Above the boiler is a bronze lantern, supported in its place against the wall by two exquisite statuettes. A small ivory box in one corner of the room is full of silver coins,-the day's receipts. And the archæologists report that when they opened the boiler they found water in it that had been there since the year of our Lord 79.'

be done swiftly and easily. One might be called to suffer, and at the first cry of pain the suffering would be gone. We should all grow lazy and selfish, never learning patience, courage, or trust. Our school-days on earth would be all play; and we should step out into the greater opportunities of living, beyond the Veil, untrained, weak in body and spirit, dead failures as men and women.

Whatever God's promises about prayer mean, they certainly don't mean that He is weakly indulgent. He will give us the best that we are capable of receiving. We shall never be able to say, when we look back, that He answered our prayers to our harm. But prayer is always a mystery. If God loves us enough to give us what is best for us, why should we interfere with His plans by even expressing our desires? Does not the

piece of hard work might be given to one force the hand of God. It is not a person, and he would pray that it should frantic effort to change His wise all-sceing Will to our will. If it were, we should be daringly foolish and impertinent to pray at all.

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But the Bible is God's Word, His message to the world, and the Bible tells us to pray. Over and over again the command is repeated, and its value is proved innumerable instances. Think of Hezekiah's case, for example. He was 'sick unto death," and Isaiah came to give him this solemn message : "Thus saith the LORD, Set thine house in order : for thou shalt die, and not live." That seemed final, and the prophet left him. But Hezekiah knew that the Eternal God was his dwelling place and that underneath were the everlasting arms. Within those arms he was as safe as a child held close to a father's heart. He turned his face away from earthly helpers and "prayed unto the Lord." Before Isaiah reached home, God sent him back to tell the king that God had heard his prayer and would heal him. On the third day he should be well enough to return thanks in God's house.

I have mentioned this case out of many, because it shows that prayer sometimes seems to change the Will of God to man's will. Certainly, it is only seeming. God's Will was Hezekiah's recovery, and yet that recovery entirely depended on prayer. Does that seem contradictory to you? God's Will is that a farmer should be prosperous, and yet the farmer will not be prosperous if he leaves his plowing and sowing and harvesting undone. God's Will is that each child of His should be good and happy, and yet it would ruin anyone if goodness were forced on him, if he did not have to fight many stern battles with besetting sins.

Is prayer of any vital use? It is folly to ask that question of people who have little or no practical experience of prayer. You den't go to a doctor to find out the best way of farming, nor to a farmer for the treatment of a cancer. Ask the people who have prayed for years, and they will tell you that they can't get along without prayer. They know that God does not always answer prayer as He answered the prayer of Hezekiah. The kind of answer He will give is for Him to decide. They always keep the trustful petition, "Thy Will be done," as a safe foundation for their special requests. They know their Father can be trusted. They put the matter into His hands, explaining their desires, but trusting Him not to give anything that will hinder their eager climb up the mountain of holiness.

The result must be peace. There is no possibility of the message failing to reach Him. The petition goes straight to the Father's heart, and the child is satisfied

How Pompeii Gave Notice of Elections.

The inscriptions on the wall outside the bar, uncovered by recent excavations, show requests for votes at an election not later than 79 A.D., the date of the city's destruction.

> prayer, "Thy Will be done," cover everything ?

Perhaps we might think so if we had never been told to pray. Indeed, the message sent by the sisters of Lazarus to their loving, mighty Friend, in their great need, was marvellous in its power. They did not ask Him to come, they did not ask for anything, but simply told Him their trouble. "Behold, he whom thou lovest is sick." How hard it must have been to disappoint those trusting hearts even for a few days. And yet, because He trusted their love for Him,



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tightly quietly awaited results. Would he effect a rescue or would he be too late?

Like a huge ball of fire the sun was disappearing beneath the western horizon when we beheld the scarlet tunic reappearing. The war-bedecked Indians fell quietly back, forming what might be which the Major came, bearing the child in his arms, her little arms around his neck, while her disordered curls spread over his shoulders. Proudly he bore himself as he approached the gateway. No undue haste characterized his actions. Cooly as if returning from a visit he walked, while his face gleamed with the same spirit of determination observed when he was setting out upon his errand of mercy.

As he reached the gate our restrained feelings gave way to shouts of rejoicing. Cheers rent the air, while tears flowed freely from many eyes. The mother was almost hysterical with joy. Pressing the child to her bosom, she gazed upon her saviour with looks that spoke, more eloquently than words, her thanks. Instinctively we gathered around our hero. Forgetting official distinctions we gave expression to our feelings, while the Captain, grasping the Major's hand, poured out his heartfelt thanks. Hastily withdrawing himself he exclaimed; "Every man unconcernedly as if nothing unusual had occurred.

Such was the Sergeant's story. So far as known the actors in that dramatic scene have passed away, and the objections once raised against its publicity are removed, therefore no offence can be given by its publication.

secure, Within His arms I can His choice enjoy, endure.''

Hope's Quiet Hour.

Prayer the Source of

Peace.

The Eternal God is thy dwelling place,

And underneath are the everlasting arms.

" No need for me to know the secrets hid

Between the leaves of the unopened years;

'Tis not my part to lift the casket's lid,

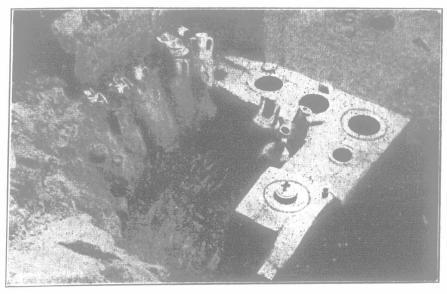
Or seek to analyze the smiles and tears

treasures

-Deut. 23: 27 (R. V.).

there. He knows I am

and put their confidence in Him to a terribly severe test, that short sorrow has been a help and comfort to the world ever since. Ask those two women now-



A Roman Bar in "The Street of Abundance," Pompeii. By permission of Literary Digest.

gave orders for supper to be prepared as answers to prayer, and yet anyone who are not thankful to Him for the short has really prayed for years has found out by experience that prayer is not a magic wand, bringing down instantly exactly what the petitioner thinks he needs bled men and women would have been and wants most. What an upset world unspeakably poorer. this would be if God were unwise enough

God has made so many promises about those women whom Jesus loved-if they encouraged millions to trust on when all hope seemed to be gone. If He had not forced them to wait, this world of trou-

The first thing, then, for us to rememto trust us with absolute power. A ber is that prayer is not an attempt to reason He is so patient with our many

that all will be well. St. Paul says : "The Lord is at hand. In nothing be anxious; but in everything by prayer and supplication with thanksgiving, let your requests be made known unto God. And the peace of God, which passeth all understanding, shall guard your hearts and your thoughts in Christ Jesus.

Give up the practice of prayer and you will certainly drift farther and farther away from God. Sometimes He is forced to withhold the good gifts He wants us to have, because we have neglected to ask for them. He wants our joy to be complete, therefore He commands us to keep always beside Him, talking over every difficulty and every plan with Him. The father of the prodigal son wanted his son to have the best robe, the ring, and the kiss of welcome, but to send them after the wanderer would have only encouraged him to stay away from home.

Peace comes from trustful prayer, not from the wild petition to have our own way at all costs. God, Who loves us enough to give us the greatest conceivable Gift-the Gift of His own Son and Holy Spirit may be safely trusted to give us all lesser good things. We really want the best gifts, those which will make us strong and glad in spirit, and God is eager to give us these. But, if we do not want these gifts enough to take the trouble to ask for them, then it would only injure us to give them. The best teachers will not help children overmuch with their lessons, even though their progress might be more rapid with more help. Rapid progress is not always thorough, and God knows we have all eternity to grow in. That is the

FUJI MICKO SAFEIYA N

failures, so ready to set a blotted, ruined copy over again. But the failures and the ideals must be brought constantly for his inspection, or we shall make no progress. We must be careful never to leave our Father out of our plans. But, when a matter is laid before Him, in simple, practical words, it is a great sin to worry. Now, don't imagine that I never worry. It is so easy to say, "Don't Worry !" but we all have to fight our way into peace. Again and again the worry creeps into our hearts, just because we have not perfect faith in the "everlasting arms," in whose shelter we Lesson after lesson we are are safe. given, and still our faith is weak when trouble faces us. Like the women at the tomb, we worry about the stone which we know is too heavy for us to roll away. We come up to the stone of difficulty, having endured a great deal of unhappiness before we have any business to endure it, and the difficulty has either vanished or else extra strength is given to overcome it. This happens so often, that perhaps we learn the lesson of peace at last. Then our worries-large or small-are told to God; and we stand prepared to endure in His strength, if He shall see that endurance of trouble is better in the end than removal of it. Leaning on God is the only secret of a lasting peace that I have any experience of-peace in the midst of storm, safety in the midst of danger, restfulness in the midst of work, light in the blackest darkness. That is a peace worth infinitely more than the perishable, worrying riches or enervating comforts which we are so eager to gain. Let us thank God every day, at least as much for the prayers He seems to be refusing as for those He is plainly granting. Perhaps, in a few months, or years-certainly on the other side of death-we shall thank Him from our happy hearts because He worked for us far more wisely than we could have understood, giving us more than we asked or thought. By trustful prayer we put all that concerns us into our Father's hands, and peace is the priceless result. Why do we burden our hearts and blot out the sunshine, when we can-if we will-rest always on the everlasting arms?

"God holds the key of all unknown, And I am glad;

If other hands should hold the key, Or if He trusted it to me,

- I might be sad. What if to-morrow's cares were here
- Without its rest? I'd rather He unlocked the day.
- And, as its hours swung open, say, 'My Will is best.'

THE FARMER'S ADVOCATE.

Dear Beavers,-Do not overlook any plan that will coax the birds to your garden. They will help you ever so much, you know, by eating the flies, bugs, and caterpillars that are trying to destroy your plants. One way of encouraging birds to stay about is to put up drinking vessels for them. Be sure for about three years. We used to live to have these shallow, so that there will in Ontario, but this last spring we moved be no danger of the birds drowning in the water, and place stones here and there in the dishes, letting them come just above the surface of the water, so that your little feathered friends may have something to stand on when they stop to drink.

The best place for a bird's drinkingdish is on top of a post set up for the purpose. About a foot below the dish a sheet of tin should be fastened so that it will extend out all about the post to prevent meddlesome cats from ascending to pounce upon the birds.

If you have no mice about the place, and keep pussy just for a pet, tie a little bell to her neck. That will warn the birds when she comes too near. Pussy is very lovable, you know, but she can't be depended upon to leave the birds in safety.

Senior Beavers' Letter Box.

Dear Puck and Beavers,-Allow another interested reader to contribute a few lines to the Beaver Circle. We have taken this paper for some time, and find it very interesting from time to time. As yet I have not seen any letters from anyone near here; in fact, I know none of those who have written.

I live on a farm of two hundred acres, and were any of you to visit this part of the country, I think you would be sure to agree that it is most beautiful just now (written May 29th). The apple orchards are all in bloom, and at a distance look like great snowbanks. The perfume fills the air far and near, and here and there a tinted lilac-bush lifts its head among the apple-tree whiteness, and under foot the great green mantle is five inches square. spread over all the earth. Who could not enjoy life in the country, surrounded by nature on every hand?

Spring is here again with all its duties. Gardening and out-door cleaning are almost completed, and I am busy trying to raise some chickens. They are very late this year, as I cannot get hens to care for the eggs. I will have about fifty or more in about a week if nothing happens them. I have been thinking of trying an incubator this year, and perhaps may yet. Some of the other Beavers may be busy with chickens, too. We have a pony that I can drive, and I take my brother and sister to and from school. I will close now, hoping to see this in print, and that it does not fall a prey to the w.-p. b. Bye-bye just M. GRAHAM now. (Age 14, out of school). Cromarty, Ont.

A Hint for Your Garden. the neighbor boy caught him and tied every kind, fishing, boating, riding, playhim up. LILLIBELLE GRAHAM (Age 12 years, Book Sr. III.). Middlemiss, Ont.

> Dear Puck and Beavers,-Although I live on the wide prairies, I am going to make my first attempt in writing to the Beaver Circle. My father has been a subscriber to "The Farmer's Advocate" to the West; nevertheless, we have a dog and a cat to make fun for us. I go to school here, but in Ontario I did not. I am in the Entrance Class. I like the prairies, but Ontario is a much more beautiful place to live in. The climate of Saskatchewan is fine.

I have always thought of writing before, but never did get at it. We would not know what to do if we failed to get The Farmer's Advocate."

I fear my letter is too long and will be thrown in the w.p. b. so I will close ELIZABETH GARRETT

(Age 15, Grade VIII.).

Estevan, Sask.

Dear Puck and Beavers,-I enjoy reading your letters so much, and find them all so good, that I thought perhaps some Beaver might be interested by my letter. I am going to describe to you a very historical spot.

We live at a place called The Pines, because there are so many pines there. It is a very good location, in a fine farming district, and about a mile from where the U. E. Loyalists built the first Methodist Church in Canada, and the home of the late Sir John A. Macdonald. I will tell you what this church is like now as best I can. It is a large building of frame, and shows how liberally lumber was used in the olden days. It has two rows of three windows on each side. These are full of small panes of glass, and covered with small, board doors. The doors are two big ones in the front. A fence is around it, and a dock at the bay. Last year a grand reopening took place, at which about one thousand were present, and everywhere was crowded, even to the gallery. Many speakers were present, among whom was Dr. Carman, President of the Bay of Quinte Conference. The seats in the church were just benches (stationary) and the pulpit was one about the same as the first erected there. For collection, the old boxes were passed around. They were on sticks, and the boxes were about

Well, I will close, hoping Puck will not send this to that awful w.-p. b.

May I come again? MARY DICKSON

(Age 12, Book IV.)

FOUNDED 1866

ing baseball, etc. We have a dog named Lassie, and a cat called Yola, also a kitten, Dodo. Well, I will stop, with a few riddles.

Plant a kitten and what will come up? Ans .-- Pussy willow.

Plant a preacher and what will come up? Ans.-Jack in a pulpit.

What will a father say to his son John in the morning ? Ans .- Johnny jump up. What will. a goat do in an old lady's china shop ? Ans .- (Butt-her cups) buttercups.

What is an unpopular girl called who goes to a ball? Ans .- A wall-flower.

What is a popular girl called who cannot go to the ball ? Ans .- A blue-bell. What is used by a teacher to punish her pupils? Ans.-Cat and nine tails. What is it that is gay, but a ferocious animal? Ans.-Dandelion (dandy lion). I think this is all I can think of now. These are all names of flowers. I got them at a party where they had a flower contest, and these were some of the riddles we had in it. I thought someone might like to make a riddle book, too. P. S.-Will Puck please tell me if club

pins can be got? I wish James McQuarrie would tell us about British Columbia.

Will some of the Beavers kindly send some new riddles ?

Is there any chance of having a story contest, and how many of the Beavers would like it ? Forgive me for writing such a long letter.

HELEN PARRY (age 14). Adamsville, Que.

We have no Beaver Circle pins yet, Helen, as no one in the office has time, at present, to attend to sending anything of the kind out. Perhaps we shall have a story competition some day before very long.

Dear Puck and Beavers,-This is my first letter to the Beaver Circle. I am eleven years old, and in the Senior Third book. have about half a mile to go to school, but, as it is a private road, it is not always good in winter. I have four sisters and no brothers, and I am the second oldest. I would like to join your Club, and if any of the other members would like to write to me, I should be pleased. As my letter is getting rather long, I will close

M. LORNA RODGERS (Age 11, Sr. III.) Rosetta, Ont.

Dear Puck and Beavers,-My father has taken "The Farmer's Advocate" for a number of years and would not be without it. When we get the papers, I always look for "The Farmer's Advocate"

The Beaver Circle.

OUR SENIOR BEAVERS.

[For all pypils from Senior Third to Continuation Classes, inclusive.]

A Pair of Friends.

(By Alix Thorn.)

There's a brown plume waving over Nodding heads of fragrant clover, With a straw hat bobbing gaily Close beside it, soon you'll see, Underneath the plume is Rover, Dearest dog vou can discover, Ready for a tramp or frolic, And the straw hat means, that's me.

If you hear a sudden crashing In the alders, then a splashing, Watch the ripples ever widening Till they reach the willow tree-Then you'll know it's good old Rover, While that fish-pole stretching over, That a sunburned hand is holding, Well, that fish-pole means, just me.

But when shadows come a-creeping, And a star it's watch is keeping, Down the road the dust is rising, Hurries past a burdened bee See our Rover, slow returning Westward red the sunset's hurning, And the boy that's trudging homew rd, Tired, her happy, guess that's me.

Dear Puck and Beavers,-I have written twice before to the Beaver Circle, but failed. As I was reading the Circle in "The Farmer's Advocate" I came across a letter written by some Beaver that had tried once and failed; she said to "try, try, again," so I am trying.

My sister had a great experience today. We had a calf. He was used to my mother around him, and we seemed strange, and he broke the post he was tied to and went all over the stable with a post hanging on the chain around his neck. I went after a neighbor boy, and my sister untied the chain from around his neck and was waiting for us to come back. At last we got him out of the stable; then he got into the gran- I love horses, and the same all my Good-bye. WI ary and jumped into a bin of octs, then time with these I all the Storts of Cross Point, P. Q.

The Pines, Ont.

Certainly, come again, Mary.

Dear Puck,-As I have just been reading some of the letters in the Beaver Circle, I thought I would write to you, also. I have a great many letters to write, as I have many friends whom I correspond with. I used to live in Ontario, in Princeton, then I moved to Cookshire, in Quebec, and from there to Adamsville, where I am now. I have only lived here about six weeks. It is ever so pretty here; the scenery is beautiful. The Yamaska River flows right past our door. I do wish some of the Beavers would write some stories. If they like it as well as I do, I should certainly think they would. wrote one story to this corner, and I may send another if you would care to print it. I like to get new riddles very much, as I am going to put them all down in a book and see how many I can get, as you can always answer friends with a riddle book. Has the Beaver Circle any club pin or badge of any sort? If they have, can you buy one? I have never seen anything about them, but have noticed that some of the other corners have them. How many, I wonder, would like to have them, too? It would he nice to buy them; we could have a Beaver on them, couldn't we? I saw in to-night's "Advocate" that Ashael Beaman said he was a bookworm. also one. I have a bicycle, and I enjoy riding very much. This, however, would not be as nice as herving "Rosie," I love horses, and a lower all my Good-bye. WILLIE BUSTIED

and read the letters. I live at Fraxa Junction; it is not large enough for a post office. It was not always Fraxa, but Orangeville Junction, but as Orangeville is only four miles distant, I think they did well to change it. I go to school, which is at a distance of four and a half lots, but I have lots of company, and it does not seem very far. I like my teacher, and I think everyone does, too; her name is Miss Stewart. She came to our school at Christmas. Well, Puck, will you let me join your Garden Competition? I think it is a very interesting subject,-don't you, Beavers? I have in my garden, pansies, asters, carnations, marigolds, sweet peas, hydrangea, cabbage, carrots, parsnips. will try to do my best with them. If my letter is not good enough, throw it in the w.-p. b., for I can come again. I think I have written a long enough letter for this time.

RUBY TRIMBLE.

Orangeville, Ont.

Your number on the Garden Competition list is 27, Ruby. What a long time your letter had to wait before finding room !

Dear Puck and Beavers,-This is my second letter to the Beaver Circle. As I did not see my other one in print, I thought I would write another one. We have four horses; one is a colt two years old. I have a dog that I yoke up. There is a boom near my place. I go to school every day. I have a mile and a half to walk. My cousin and I are

(Age 11 years).

OUR JUNIOR BEAVERS. Junior Third, inclusive.]

Junior Beavers' Letter Box.

Dear Puck and Beavers,-This is my first letter to the nice little Beaver Circle. I am going to tell about my pets. I have a dog; we call him Kaiser. He will draw me all over on my sleigh in winter; in summer he draws me in a cart which my father made for me. I also have two cats named Snowball and Nigger. I tried to teach them some tricks. I taught them all I knew.

We have nine little pigs, and when I am near I get some clay, wet it a little, and give it to them to eat. They like it very much. My father has taken "The Farmer's

Advocate" for some years. He likes it very much. I shall close now, hoping my letter will escape the w.-p. b ISABEL CRUICKSHANKS

(Age 10, Book III.). R. R. No. 1, Ossian, Ont.

Dear Puck and Beavers,-I thought I would write to the Circle. I enjoy reading the letters. I have had the whooping cough for two months, and could not go to school, but started after Easter holidays. I am in the Junior Third book, and have nearly two miles to walk to school, so I think when I get my education I earn it. Don't you think so, Beavers? I like my teacher very much. Her name is Mrs. Fluher. We live on a farm in the County of Lincoln, Township of Gainsboro. Will close, wishing the Circle every success.

FAY STRONG (age 10). Rosedene, Ont.

Dear Puck,-I live on a farm. We keep geese, turkeys, chickens, and I have three guinea hens of my own. My brother has taken "The Farmer's Advocate" for about three months. We like it fine. I have another little brother. We go to school. We like our teacher Her name is Mrs. Rowe. I am fine. in the Senior Second. I guess I will close with a few riddles.

What goes through the woods and through the woods, and never touches the woods ? Ans.-Jackknife in a man's pocket.

What makes more noise under a fence than a pig? Ans.-Two pigs. MAY RABY. Clarke, Ont.

Dear Beavers,-My sister, my cousin and I, went fishing. We left home about half-past one, and got down to the creek about two o'clock. We had two fishing poles. I had one and my sister and cousin had the other, and took turn about fishing. When we started for home we counted our fish, and we had twenty. On our way home we went into a neighber's and got a drink of water. When we got home our mothers cooked some fish for our supper. My father has taken 'The Farmer's Advocate'' for years.

THE FARMER'S ADVOCATE.

have no school near our place; I have to [For all pupils from First Book to board away from nome. I will close, ing, outs as a content of the second away from nome. (2) A man must always hoping this will escape the w.-p. b., and friend's friend. (2) A man must always wishing the Beavers every success.

HILDA WOODS (Book III.). St. Ferdinand, Que.

NO. IV.

(What to teach the boys.)

Have you ever heard it said that training in regard to good manners seems to "show" more in men than in women? Possibly this is true. A woman may be dainty, stately, irreproachable in all that pertains to the social code, yet she has fewer opportunities to exert the evidences of her training than has the man. He must needs be the cavalier, the one who is to bestow the little attentions that inevitably mark the man trained in manners; to the woman falls the part of receiving those attentions graciously and naturally.

woman, who recognizes a woman in passing,-this as a token of respect to the raise his hat when taking leave of a woman with whom he has been talking, or when performing the slightest service, such as answering a question or picking up a parcel, for a woman whom he does How to Act - Deportment not know. If a woman who is a stranger to him should ask him a question he should also take off his hat. (3) While ascending or descending in an elevator a man is expected, if women be also in the elevator, to take off his hat and keep it off until he steps out. (4) It is customary for men to take off their hats while a hearse is passing in a funeral, when a man of very high rank passes, when the National Anthem is being sung after any out-of-door meeting.

A man, when necessary, should open a door, and hold it open, that a woman or women may pass out.

He should always permit women with whom he may be walking to precede him,

"Jack, the Baby, and I." Little Nora Thompson, Derwent, Ont., her baby brother, and dog, Jack.

To be sure, then, that your son will whenever it is impossible that they act, when he grows up, as a gentleman should walk side by side, except in such must, begin the training of him while he cases as may make it necessary to reis still but a boy,-yes, before he has verse the rule, for the sake of protecting discarded his Fauntleroy collars .- You those whom he is escorting. remember, do you not, what a darling, stance, in a very close crowd he may what a most perfect little gentleman walk ahead to make the way easier for "Little Lord Fauntleroy" was?

your And now.

For in-

the lady, who then follows him closely. entering any public place of me When

etiquette demands that they should wear coats during meal-time, no matter how hot the day may be.

If a man should meet a woman in a narrow hotel hall or corridor he should step aside, raising his hat as she passes.

A man should never smoke pipe, cigar nor cigarette while walking or driving with, or talking to a woman. Only a boor would do so.

If a man meets a woman on the street and wishes to talk to her about anything, he should turn and walk back with her, not keep her standing there.

A man should not first offer to shake hands with a woman, but should wait for her to take the initiative. On entering a house he must, of course,, as must all others, advance to greet the hostess before speaking to anyone else in the room.

A man should not take a box of candy to the theatre or concert-hall, or to any public place to which he has escorted a woman. It is considered in very poor taste to munch away in public, and to

offer candy to a woman in such a place would be to put her in a very embarrassing position.

A man should arise to his feet when a woman enters, for the first time, the room in which he is sitting, and he should remain standing until she has been seated.

When escorting a woman to the dining-table, a man, if he offers his arm (this is customary in some houses), presents the left one. Arrived at the table, he moves the chair back that she may sit down. Before helping himself to any dish, he offers it to her first; when she has taken what she wants, she should pass it back to him.

There are many other occasions, which cannot be specified here, on which a man can do the "right thing at the night time." Let him remember to be not neglectful to perform any little service that he can for women or old men who may be near him, and he will seldom be found wanting; but let him remember, also, that whatever he does must be done quietly, unostentatiously, and naturally. So may he prove that he knows how to act asa gentleman should. Flaunting, even of good manners, cannot be other than vulgar.

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 ad-dress with communications. If pen-name is also given, the real name will not be published. 3) When enclosing ng a letter to ba form vardad to anyone, place it in stamped envelope ready be sent on. (4) Allow one month in this to partment for answers to questions to appear.]





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OLIVER ROBSON (Part II. Book). Telfer P. O.

Dear Puck and Beavers,-The school which I go to had a picnic at Springbank.' We had our dinner at home and went to London and got in about halfpast twelve and did some shopping. We took the street-car down, and had a basket. We watched them play ball, and I got on the merry-go-round, and then met my friend and we went and got some chocolate candy. We then ate our lunch and watched them play ball till dark, and then took the street-car back to London and came home. It was one o'clock when I got home, and I was very tired. My father has taken "The Farmer's Advocate" for five years.

ROSEY ROBSON (age 12, Sr. II.). Telfer P. O.

Dear Puck and Beavers,-My grandmother takes "The Farmer's Advocate," and I like reading the children's letters, so I thought I would try and write one. I have two brothers and one sister; I am the eldest; I am just ten. By latent seems to exist some contusion: Budy taking an exception to the almost invari-lives on a farm. Our farm is near the this set the matter clear: (1) A man able rule "women first." lake. We go bathing in the summer, should invariably raise his hat, if walk-lake we go bathing in the summer, should invariably raise his hat, if walk-We are just a mile from the village. We mg with a friend, whether man or their hats or caps in the house, also that the eldest; I am just ten. My father

-here is a list of the things that the ing with a woman, the man escorting boy must learn to do, that you must her should let her follow the usher, he teach him to do, since upon you may coming last, If there are no ushers and rest, more than you may think, the re- . it is necessary to find a seat, he should sponsibility for forming his manners. Of go first. course he may learn much by observing when he begins to go out as a young vulgar to talk or laugh loudly, or to do man; but then, he may not be observ-At any rate, why send him out ant. handicapped by the necessity of constantly keeping on watch. Teach him how to act out of the house as well as inside of it. He will thank you for it every time he catches slight of a man who does not know how to act, and will feel thankful doubly, in his heart of hearts, that his own manners, at least, can throw no discreditable reflection upon his mother or his home.

Manners do not count for everything, but they count for much. It is just as easy to act nicely as to act boorishly, then why should not the better path be taken?

But we have wandered from the list : Some young men seem to be 'in doubt as to when they should raise their hats. -And, just here, the hat should be politely "raised" from the head, not taken off with a flourish, nor merely pointed at, as is the custom of some well-meaning but badly instructed youths. Most young men nowadays understand that they are expected to raise their hats when recognizing an acquaintance, whether the acquaintance be a lady, or a man who is older or to whom deference should be shown. Beyond this, however, there seems to exist some confusion? May

A man should remember that it is very anything that is obtrusive in a public place. If he wishes to express his pleasure in regard to any part of a programme, he should clap his hands gently, but never stamp his feet on the floor or act boisterously in any way. A man invariably sits on the aisle side in church or theatre.

When walking on a sidewalk with a woman the man, as a rule, keeps to the outside. When walking with two women he observes the same rule; he should never take up a proud position between the two, as though he considered it an honor for the women to walk close to him.

It is not necessary, in those days of bright street-lighting, that a man should offer his arm to a woman, unless she be very old or an invallid. To walk armin-arm is considered rather bad form in America.

If a man wishes to send a gift to a woman to whom he is not engaged, he is limited, if he wishes to be quite correct, to flowers, books, candy, and music.

In going up-stairs, a man should walk beside a woman. If the stairs be too narrow, most authorities on etiquette hold that he should precede her, thus taking an exception to the almost invari-

Take a Holiday.

Dear Ingle Nook Friends,-While sitting here trying to think of something seasonable that might do for the topic of our Ingle Nook introductory chat to-day, my thoughts flew, quite of themselves, to anticipation of the fortnight's holiday that I expect to enjoy before long. I am not planning for any wonderful trip this year; the greater part of the two weeks will be spent just wandering about old scenes, sitting under the old trees about which I played as a child, loitering by old brooks over whose stones I once waded barefoot,-best of all, chattering with old friends, fewer each year, for the lure of the West has called many, and others have gone on a still longer journey.

But it will be a peaceful, restful and altogether pleasant holiday, I hope, a change from the four walls of a tiny room and an outlook upon roofs and yet more roofs, with never a tree in sight, and never a bird save the ubiquitous English sparrow, which, somehow, I never can learn to like,-it is so mussy, and has such a disagreeable chirp, and is so very officious in driving away our native birds from its vicinity. I have heard "Old Country" folk express affection for it, and perhaps this is not to be wondered at,-to them there are old home associations bound up with the saucy little fellow; but I always feel sure that if those same folk stay long enough in this country to feel at home here, and study our American birds

THE FARMER'S ADVOCATE.

MELEOD'S FLOUR ALWAYS RIGHT

9 McLeod's "SPECIAL" is standard for purity, quality and uniformity --- McLeod's "SPECIAL" is the best flour for pastry--and best for bread baking---as milling science has developed to-day it is the most perfect product --- milled from the finest and most scientifically blended Ontario Winter Wheat and Manitoba Spring Wheat it requires less shortening for pastry and less water for bread baking---there is economy in using McLeod's "SPECIAL" it goes farther. McLeod's "SPECIAL" on the barrel is your warrant for

satisfaction---because McLEOD'S FLOUR IS ALWAYS RIGHT.

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enough to be really acquainted with sent their being driven away by any aggressive stranger.

The music of them !--our own whitethroats, and meadow-larks, and bobolinks, and hermit thrushes, and song-sparrows, and thistle-birds, and swallows, and catbirds, and warblers by the score. I hope you know at least a few of these both by song and by appearance; to be able to recognize them by name makes them seem so much more like old friends. Just here, I was fortunate enough to hear, last winter, a lecture by the most noted bird-lover in Western Ontario. He had spent some months of the preceding summer studying the birds of the Old Country, and he said this, that although, because of their numbers, there appear to be more varieties of birds there, there are not really nearly so many species as in Canada, nor are the individual birdsongs, as a rule, nearly so sweet. Our native American birds, like our native mer. flowers, are, almost invariably, shy and retiring. Before the onrush of civilization the very sweetest and daintiest of them, the shy wood-thrush, the bell-voiced white throat, shrink, with the fragile hepatica and timid wood - violet, to the few haunts still spared them by the axe of the woodman and the plowshare of the farmer; but there, if you know the wood-secrets, they are ready to give you their own sweet welcome. Learn to sit still and use your eyes and the most retiring of the wood-birds will draw near to you; learn to refrain from pulling the wild-flowers, and still more and more of them will lift their sweet faces to greet you in the coming years. I never can understand the mania that some people seem to have for tearing up the wildflowers wholesale. Home they come, with great armfuls of limp, bedraggled blossoms from which the beauty has all gone, and which, even were they not wilted, would need the setting of "woodland and sky" to give them their true charm. Next day out goes the whole collection on to the dump, and that is the end of it,-so many flowers just wasted, so many the fewer seeds left to grow up into new beauty in the woodland glades the next year.

Why would it not have been enough to enjoy the flowers where they grew, and to pluck say just one tiny spray as a memento of the pleasant ramble ? Why do people eternally need to "grab, grab, grab " ?- for one can call it nothing else. Our native flowers are disappearing from the face of the earth just because of this selfishness—in many places they have gone never to return. Unless there be a change soon we shall have no hepaticas, no foam-flowers, no cardinal flowers, no dicentras ("ladies and gentlemen"), no aquilegias ("columbines"), no native orchids,-nothing but blue-weed and ox-eye "Canada" thistles, and a daisies, and score more of such plants, coarser, more aggressive, all foreigners; these we shall, as not; don't try it. Don't be foolish no doubt, have in plenty, notwithstanding the strenuous efforts taken to get rid the chance for a change when you reaof them.

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System is all very well-one can't get them, they will understand why we re- along without it, to a certain extent, but there is such a thing as becoming a slave to it,-and it is very foolish to becomea slave to anything. By all means have system, but don't forget to keep it elastic enough to be stretched on occasion,elastic enough to give you some liberty. If you don't the chances are that you. may become more and more narrow instead of more and more broad-minded, as you should be as you grow older. Don't keep in the rut; it grows deeperwith constant wear.

In the winter leave the family mending, which you usually do on Wednesday hight, until Thursday night, in order that you may attend that lecture or concert; the mending will keep, but the lecture will not. In summer,-now we are coming to it !-- At no time in the year should system be kept as elastic as during the sum-

It is going to be dreadfully hot to-day, and the kitchen will be like an oven. Moreover, this is wash-day, Monday. But-John is working in the back-field to-day, near the woods; to-morrow he will be through there and will be in the hayfield near the house. . . Now, why not "let the washing go" until to-morrow and bring a bit of change into the programme ?- The house is mussy after Sunday, too? Let it go; the earth will still turn. Pack up a big basket with good things,-lettuce from the garden, a potato salad, the cold meat and other odds and ends left over from Sunday. Let little Jack help you to carry the basket, give Ted the tea-kettle, and Mollie something else,-then off you go. to the woods. Do you think John will enjoy his dinner the less out there under the trees? Do you think the children. would be happier at home?

Don't stew over the held-over washing. Lie on your back and look up into thegreen depths of the ten thousand leaves; listen to the birdsongs; let Mollie set the table on papers-there will be few dishes to wash-and let your eyes and soul be filled with the pretty picture little Jack makes as he builds a crackling fire between stones and sets the kettle thereon. to boil. Don't be surprised if he says, "Camping out is jolly, isn't it, mother?" Just try it .- If you don't work the better on Tuesday because of the little rest and outing, I am a false prophet.

. . . .

There will be the Sunday-school picnic, and perhaps another picnic or two down by the beach, and an invitation to spend a day with a friend, and perhaps an opportunity to take a trip to Toronto exhibition. "Make time" for them all, if you can. Just forget things, and give yourself up to the pure joy of living once in a while. Keeping too much to one's self makes one "queer," as often and run all to pleasure-getting, but take sonably can. You will go back, then, to the heavier things of life, and do them all the better for the variation.



-out where the light can fall on it-and see the brilliant, diamond-like sparkle the pure white color, of every grain.

That's the way to test any sugar - that's the way we hope you will test

with any other sugar-compare its pure, white Compare it sparkle-its even grain-its matchless sweetness.

Better still, get a 20 pound or 100 pound bag at your grocer's and test "St. Lawrence Sugar" in your home.

THE ST. LAWRENCE SUGAR REFINING CO., LIMITED, MONTREAL



BEST RESULTS ARE OBTAINED FROM ADVOCATE ADVERTISEMENTS.

But I surely started out with the intention of speaking of holidays, and begging you, for your own sake, to take one now and again. I have a dear friend, an artist, who seems to be obsessed with a mania for working all the time. She often looks tired, so tired. I am sure, quite sure, that she would be the gainer could she be persuaded to let things go, once in a while, and just drift, but that the fact. And how very many housewives there are who are just like her in from the air without. this respect. Everything must be "done up" to the last stlitch and speck of dust, not the slightest detail must be neglected, -and so the holiday never comes.

Dear friends, even railway engines have change or rest? It has been proven by work on the whole if given frequent intervals of absolute rest or play; don't you think it only reasonable to conclude that the same may be true of the housewife? At any rate the earth will still fruit to worry over. turn if some little detail of the housework be postponed for a day or a week. about housekeeping is that if you can't. get a thing done one day you can do it the next; it doesn't really matter."

JUNIA

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The Canning Season.

The principles underlying the process of canning, whether of vegetables or fruit, are, as you know : (1) To kill all bacteria and yeasts that might multiply in the cans and so cause putrefacis the problem-how to convince her of tion or fermentation. (2) To seal the cans so tightly that no germs can enter

The bacteria within the fruit or vegetables are killed by the intense heat of boiling, although vegetables must, as a rule, be boiled much longer than fruit; those clinging to the cans or sealers to be "rested" occasionally, then how can must be killed by sterilizing the vessels. the fine, complicated mechanism of the Fill the sterilized sealers while still hot human body go on eternally without with boiling-hot fruit, piling it over the top so that no air spaces may be left, educationists that students do better put on the sterilized lids and rims (sealers whose tops snap down, are still better), then when the jars are cool set them away in a cool place, and the chances are that you will have no spoiled

Instead of stewing the fruit first, you may put it in the hot jars, pour hot As a very sensible little woman whom I syrup over, then, leaving the tops know once remarked : "The nice thing (not rims) on loosely, boil the jars in a kettle or boiler of water until the fruit is sofficiently cooked,—a method that preserves the shape of the fruit perfect-

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Of course, in this case you must ly. set the jars in a rack, or separate them by padding of hay or excelsior so that they cannot knock against one another and break. When the fruit is cooked, fill up each jar with hot fruit from one of the jars, put on the tops again, and screw down the rims.

If you choose, instead of putting the jars in a boiler of water, you may place them in the oven and bake the fruit, -a method much liked by those who employ it. Pack the fruit into the jars, fill up with hot syrup, set them in a pan containing about two inches of water, put on the tops loosely (just the glass tops), and set them all in the oven, which should be just moderately hot. When cooked-in from 10 to 20 minutes, depending on the kind of fruit-remove, fill up each jar from one of the jars, and screw down the tops. Set the jars on a folded towel to cool gradually, and tighten the tops before setting them away.

In short, the method is immaterial, so far as the "keeping" qualities of the fruit are concerned,-the principle in each case is the same-the applying of sufficient heat to kill all germs,-sealing to be done while the fruit is boiling hot.

Whatever the method employed, the rubbers should be dipped in boiling water before putting them on the sealers.

When canning, just enough sugar should be added to sweeten the fruit nicely for the table, but if one chooses, one may omit it altogether until the time comes for using the fruit. The small quantity needed for "canned fruit" does not help the preservation in the least, and is only put in at first for convenience.

Yeasts and bacteria, on the other hand, find it impossible to develop in rich syrups, hence, jams, jellies, marmalades, and rich preserves, keep well without sealing, the only precaution needed being to cover the top with something to prevent the growth of moulds, e.g. melted paraffine for jams, jellies, and marmalades, rounds of paper dipped in brandy for preserve.

An expert in canning, by the way, says that the strongly-flavored fruits, such as cherries and plums, are much more delicate if treated as follows: Pack the fruit into sealers, fill with cold water, set in a boiler of water and bring to a Now pour off the liquid and use boil. it for making bottled fruit juice, refill the sealers with a syrup and water, and finish cooking. The cherry juice poured off may be mixed with currant juice, half and half, and made into jelly.

Some hold that preserve made without cooking retains better the flavor of the fruit than that which has been boiled. The method is this: Crush the fruit, mix well with sugar, using a pound of each pound of fruit lot stand sugar for over night in a crock or granite vessel, closely covered, and put into sterilized jars next morning. This method is very good for shredded pineapple, strawberries, raspberries, peach pulp, etc. Sterilizing .- Before sterilizing all sealers should be thoroughly washed with Osoap or washing-soda and water, then well rinsed. To sterilize, simply place them in a boiler of cold water, placing them on a rack or with bits of something clean between to keep them from jarring, let come to a boil, and boil steadily for fifteen or twenty minutes. Slip the glass tops and rims in beside the sealers.

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-Billings Brass Action Flange, the latest improvement.

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CANNING TABLE

[Time to boil, with amount of sugar to a quart jar.]

Cherries, 5 minutes, 6 ounces sugar. Raspberries, 6 minutes, 6 ounces sugar. Plums, 10 minutes, 8 ounces sugar. Strawberries, 8 minutes, 8 ounces sugar. Rhubarb, 10 minutes, 10 ounces sugar. Grapes, 10 minutes, 8 ounces sugar. Peaches, whole, 15 minutes, 4 to 6

ounces sugar. Currants, 6 minutes, 8 ounces sugar.

Tomatoes, 25 minutes. Extending the time given will do no The minimum is given. harm.

EXTRA HINTS ON CANNING.

It is a risk to use rubbers a second time. The cost of new ones is small, and it is better to be sure than sorry. Never use iron, tin, or brass, when doing up fruit or pickles, as the acid may combine with the metal in a dangerous way. Use graniteware or enamelled vessels.

When filling jars with not fruit, place

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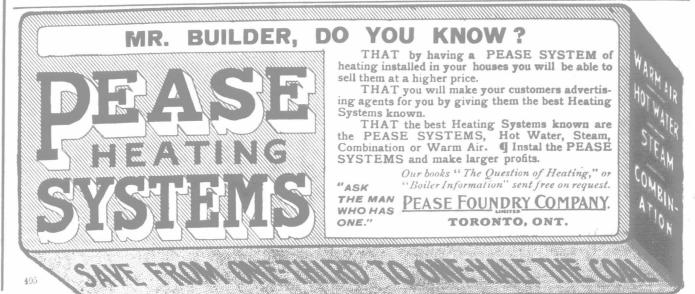
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THE FARMER'S ADVOCATE.

DMINIOI PIANO No Grand Piano Can Excel the **DOMINION for Sweetness of Tone** GRAND piano has a superb tone, yet the "Dominion's" A GRAND plano has a supero tone, you and resonant. Just notes are just as pure, sweet, strong and resonant. Just because the upright "Dominions" have an iron arch plate frame that holds the strings ever true and in tone, doing away with wooden posts that hamper the tone and warp and crack with time and climate. You don't want a piano that has a pretty tone only in the salesroom, and is built only to sell. Read our proposition bebilly to self. Read out proposition 22 fore you buy. We give no pianos to artists or col-leges for testimonials, and keep up no layish city warercoms. We put at least \$100 in your pocket when you buy a "DOMINION." Get our catalogue and We save you \$100 or more. and give you easy terms. Write for **Catalogue** select the plano you want. DOMINION ORGAN & PIANO CO., Limited Makers of Pianos, Organs and Player Pianos Bowmanville, Canada G. H. RIFE, Western Representative, 362 Sixth St., Brandon, Man.

Write for this Booklet and samples of "HARAB ANIMAL FOODS"

FACTS FOR

water. This helps to prevent breakage. without going West to find them. When jars have cooled, rescrew down the covers, as the glass contracts in cooling. Keep fruit in a cool and dry CUCUMBER PICKLES, BUTTERMILK but not damp place.

A syrup for Preserve.-Dissolve 2 lbs. sugar in 1 pint water. Boil a few min-utes, skimming until clear. Add the beaten white of an egg to clarify. Boil quickly and skim well.

OUR CHEERY SCOTCH LASSIE.

Dear Junia,-Here comes the wee Scotch lassie once more for a little chat, as we are all delighted with our paper, and can hardly wait for each paper's time to come, even to the little folk, all cling to "The Farmer's Advocate" to look at. I am sending you a few recipes, which might help some poor little girl starting housekeeping, or at least exchanging her work from school - teaching to housekeeping, as I did, and trying to renovate a little cabin for some little chap.

Cottage Pudding .- One cup of (brown or white) sugar, 1 cup sweet milk, 1 egg, 3 tablespoons of butter or drippings, 1 teaspoon soda, 2 teaspoons cream of tartar, 1 teaspoon vanilla or lemon, flour to make a batter. Cook in a hot oven. (You can slice a few apples into center of pudding, that is, put a layer of batter, then your apples or stewed rhubarb, and then cover with batter. This is a delightful little pudding for tea. Serve with sauce or sweetened cream, when hot.

Spice Cake .- One cup brown sugar, 1 egg, butter size of an egg, 1 cup sweet milk, 1 teaspoon of each of the following, mixed in flour : soda, vanilla, lemon, cloves, allspice, ginger, cinnamon, 2 teaspoons cream of tartar, 1 cup raisins, flour to make a stiff batter. I often put in a cup of currants also, and it will take the place of a fruit cake.

I see that one of our readers has bother keeping on her paper on her walls. If she would try giving her wall a sizing of glue first, then make coldwater paste, just cold water and flour, and wet the wall with paste, then her paper also, she'll find a perfect job, as she can paper without a wrinkle, and paper will not crack same as if boiled paste was used, and her paper will stick fast.

Hoping I have not taken up too much of your valuable time and paper, I am yours, sincerely,

WEE SCOTCH LASSIE JEAN.

P.S.-Would like if any of the Ingle Nook readers had a pattern of crochet quilt, would she mind sending it to me, or to your paper, so I could get it. I have one pattern; would like another.

LETTER FROM HURON COUNTY.

FOUNDED 1866

them on a folded towel wrung out of hot they will soon make a host of friends HURON CO. CONTRIBUTOR.

PIE, CITRON PRESERVES, CANNING TOMATOES.

Dear Junia,-I, too, have come for information. Would you tell me how to preserve citron? Also, can it be cured. I mean dried, so that it may be used in cake? I would also like to know how to can ripe tomatoes for soups, etc. I will write two recipes which I use, and which I consider very good.

Ripe Cucumber Pickle .- Pare and scrape the insides from seven large, ripe cucumbers, cover with water to which has been added a tablespoon of salt, and soak over night. In the morning, take 1 quart vinegar, 1 lb. white sugar, 1 tablespoon each of cloves, cassia, and pepper; add the drained cucumbers, and just boil for about two minutes. Bottle. Buttermilk Pie.-One cup raisins, 1 cup

sugar, 1 cup buttermilk, yolk of 2 eggs. Bake in one layer like custard pie. Beat whites of eggs with 1 spoon sugar, and add just as pie is about done. Brown lightly.

Now, if your patience is not exhausted, would you tell me where to put an initial on pillow-slips? The edges are worked in button-hole stitch, and I DAISY. wanted an initial. Col. Co., N. S.

I liked the preserved citron, as my mother used to make it, better than any other that I have ever tasted. make it, slice the citron, remove the seeds, pare off the rind, cut the remainder into cubes, and put into a granite kettle after weighing. Allow 1 lb. granulated sugar for each lb. citron, put the sugar over the citron and let stand over night. Next day cook slowly until the citron is clear and the syrup thick and honey-like. You may add slices of lemon, or a few bits of ginger-root if you choose.

If this seems too rich, try the following: Prepare the citron as above and allow the same proportion of sugar. Make a syrup of the sugar and some water,-say, 1 cup water to each pound of sugar. When this is boiling, add the citron and boil until done, adding lemon or preserved ginger, or ginger-root. The syrup is not so thick as in the first recipe, hence the preserve is not so rich.

I have not been fortunate enough to find a recipe for candied citron. Perhaps one of our readers can send one. Place the initial on the pillow-slip at the center of the end, three or four inches in from the button-holed edge.

I almost forgot the tomatoes .-- Tomatoes for soups, etc., are very easily canned. Choose perfectly sound, ripe ones, and peel them; the easiest way

FARMERS AND FEEDERS

HARAB **DIGESTIVE TANKAGE**

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ANIMAL FOODS

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ΒY

The Harris Abattoir Co., Limited TORONTO, ONTARIO

Dear Editor.--I was reading a letter written by M. S. in May 23rd issue of your valuable paper, and I could not help answering it.

I should like to know what part of Ontario M. S. lived in. I am sure she could not have been much out in the world, as she is so hard on the farmers. I, too, have lived all my life on a farm, and I like it fine. Where I live we have the telephone in the house, and the mail comes to our door, and our houses are furnished as nicely as any city houses. There are very few houses for miles and miles around here which have not telephones, musical instruments, and also water installed in their houses, and quite a number have nice lawns and flowers around their houses. I have yet ning vegetables. to find a kitchen floor with cracks in it a half an inch wide, and where the magazine states that she strains the towoman has to carry her washing machine up a flight of stairs.

The farmers are not such a dirty class of people as they were pictured in M. S.'s letter; they are as clean as any other people, that is if they live in a civilized country.

ago the farmers were not so prosperous, but nowadays farmers are up-to-date business men, and it is not fair to say they are selfish, for, as a rule, you will see both houses and barns in splendid condition, and a great many labor-saving a happy farmer life in Huron county.

As for "Western Lassie" saying we peo-

do this is to put them in a wire basket or colander to which a handle has been fixed, and dip them into boiling water, then peel quickly with a sharp knife-the skins will almost rub off. Now cut the tomatoes in bits and stew them in their own juice in a granite kettle for 25 minutes. Less time may do, but it is better to be safe. Add salt and pepper (white) to season. While boiling hot, put into sterilized jars prepared as in the article above on "Canning," being careful to heap the tomatoes above the top of each sealer before pressing the lid down. Screw the lids down at once. This is the easiest method, but others will be given later, in an article on can-

By the way, a writer for an American matoes after stewing, reheats the juice, and then seals it. She finds, she says, that this keeps better than tomatoes canned the ordinary way. Personally, 1 have never had any trouble with canned tomatoes,-never a can spoiled. I was always careful, of course, to use perfect-I have no doubt fifty or sixty years ly new rubbers, and to sterilize the jars very thoroughly.

The Scrap Bag. ROMPERS.

Don't worry over ironing pinafores, devices for man and woman. I consider and dresses, and underwear, for the tiny I am far ahead of the city people, living tots during hot weather. Make rompers of cotton crepe or seersucker (which do not need ironing) for the babies of three ple were unsociable, and blaming us for years and under, whether boys or girls; sending their family out West, I would oneralls for the little boys who are say, if people are secondly theread a contract in other, and dark bloomers to it abler, and dark bloomers to

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be worn instead of underskirts and "The Farmer's Advocate" drawers by the little girls who have passed romper stage. These garments may look odd just at first, but they are really just the right thing for hotweather play-days; a fact that many city women have found out long ago. The little ones are so comfortable, too, when not over-burdened with clothes. Last summer I used to pass, every day, a lawn upon which played the two children of a prominent physician. Not a tack had they on, apparently, but rompers, sun hats, and sandals, and never did children look sweeter, happier, or cooler. The fashion is one that country folk would do well to follow.

IRONING IN HOT WEATHER. Turn an old pan over the irons and less fire will be required to keep them hot.

TO WASH A SWEATER.

To wash a white wool sweater.-Shake the dust out, then drop the sweater in slightly warm soft water and rinse. Next put it in suds made with white soap and borax, and wash well with the hands. If there are any spots that are much soiled, rub soap on the hands and rub the spots, but do not rub soap directly on the sweater. Rinse through two or three waters, always using soft warm water; a little bluing may be added to the last one if desired. Press the water out, place the sweater in a pillow-case, and suspend somewhere for three days, then put on a sheet in the sunshine to finish drying.

POWDER FOR PERSPIRING FEET. Powdered orris root, 1 ounce; boric acid (powdered), 1 ounce; powdered starch, 1 ounce; powdered zinc oxide, 1 ounce; oil of eucalyptus, 1 drachm. Mix together.

MOSQUITOES.

To banish mosquitoes from a room. close it and burn some Persian insect powder, leaving it to smoulder an hour or two. To mitigate the pain of mosquito bites, apply sweet spirits of nitre or spirits of camphor.

POISON IVY.

To cure poison ivy sores, apply at once a 1-per-cent. solution of potassium permanganate, hot. It may be necessary to bathe the poisoned portion in this for half an hour or more. If the skin is unusually thick, make the solution somewhat stronger.

Recipes in Season.

Cherry Salad .- Stem and pit a pound of perfect cherries, place a blanched alin each, and set on the ice to





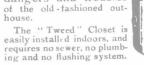
Fashions.





1183





"TWEED" CLOSET Sanitary and Odorless

can be placed in the cellar or in any suitable

can be placed in the cellar of in any suitable room in the house. The use of "Tweed" Chemical—a liquid disintectant and deodorizer—keeps the closet absolutely odorless. For ventilation, the "Tweed" is connected by a pipe to a chim-ney-hole or stove-pipe. The "Tweed" Closet was awarded a diploma at Ottawa Exhibition, 1911.

Send for illustrated price list. Mailed on request.

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5 James St., Tweed, Ont.

WANTED Travelling and Resident Salesmen

To solicit orders for our Northern-grown Trees and Shrubs. Liberal commission and all assistance given to honest, sober, industrious men. Apply, stating full particulars, to :

MR. BAILLIE, Manager CANADIAN NURSERY CO., LTD. 10 Phillips Place Montreal, P. Q.

Jersey Bull-Two years old; dam took Class A Advanced Government Register; sire exceptionally fine pedigree. Par-ticulars turnished. Rev. John D. Ellis, 763 Wellington St., Montreal.

chill. At serving time, arrange on a pad of freshly-picked cherry leaves, and dress with lemon juice and powdered sugar.

Cherry Cup.-Stew 1 quart cherries until soft and press them through a sieve. Sweeten and put over the fire in a granite pan. When the pulp boils up, thicken with 1 tablespoon cornstarch blended in a little cold water, and cook until creamy, then remove from the fire and allow to cool. When serving, put a few drops of lemon juice into each cup. This is nice with cake.

Cornstarch Trifle.-Fill a glass dish with slices of sponge cake with jam or jelly between each two. Now make a custard thus: Blend 11 tablespoons cornstarch with 1 pint milk and boil for 8 minutes, stirring all the time. Take off the fire and stir in yolk of 1 egg and 1 tablespoon sugar. Cook for 2 minutes, then pour over the cake. Sprinkle chopped nuts over the top. Beat the white of the egg stiff with a little powdered sugar and pile roughly on top. Serve cold.

Sponge Cake.-Beat together 3 eggs and $1\frac{1}{2}$ cups sugar; add $\frac{1}{2}$ cup water and a pinch of salt, then beat in 11 cups flour with which 1 teaspoon cream of tartar and 1 teaspoon soda have been sifted. Beat all well, and bake slowly. Nut Cake .-- Cream together 1 cup sugar and 1 cup butter; add 2 well-beaten eggs and 1 cup milk; beat, then beat in 2 cups flour sifted with 1 teaspoon cream of tartar and $\frac{1}{2}$ teaspoon soda. Add 1 cup chopped and flavored nutmeats, and bake at once.



7443 Girl'z Dress, 7463 Tucked Kimono 6 to 10 years. Blouse, 34 to 40 bust.



Please order by number, giving age or measurement, as required, and allowing at least ten days to receive pattern. Price, ten cents per pattern. Address, Fashion Dept., "The Farmer's Advocate," London, Ont.

The man who expects to have greatness thrust upon him must be a mighty good waiter.



Just the thing for scouring the many different parts so hard to get thoroughly clean by ordinary methods. Old Dutch Cleanser is quicker, easier and more effective. Milk will not become tainted if you clean your separator regularly with this modern Cleanser. You can use it with absolute safety. Does not

roughen the hands as caustics and acids are sure to do.

Large Sifter-Can 10 cents.

BULLETIN 33

Learn "How to get rid of hen lice with one appli-cation of Avenarius Carbolineum a year." How to paint silos, barns, fence, shingles, etc., to preserve against decay. "Country Gentleman" says : "Every reader should have it." Tested on Dominion Farms; highly recommended by Mr. Gilbert, poultry manager. Canadian orders filled from Montreal stock. Write to-day.

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ADVOCATE ADVERTISEMENTS PAY.

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THE FARMER'S ADVOCATE.

FOUNDED 1866

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Don't fail to see these samples of fine, fashionable English cloths and compare them with the \$18 to \$35 suits you get from your clothier. See how much better-looking, better-wearing clothes you can get from CATESBYS—for about half the price you must pay for equal work-manship and materials in Canada. Then you see our style book and samples you'll know why thousand of tourists wait till they get to England to be "fitted out" with suits, overcoats, etc.

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ATESBYS Ltd.

119 WEST WELLINGTON STREET, TORONTO, or COR. BISHOP AND ST. CATHERINE STREETS, MONTREAL, or 160 PRINCESS STREET, WINNIPEG, MAN., or write direct to CATESBYS Ltd., Tottenham Court Road, LONDON, ENGLAND



Two-Piece Suits of

Fine, Lightweight

English Suitings.

MADE TO YOUR

MEASURE

SHIPPED WITHIN

5 DAYS

Carriage Paid—Duty Free

Anywhere in Canada

\$11.30 \$14.00 \$16.20 \$18.00

Perfect Fit and Satisfaction Guaranteed

The Scarlet Pimpernel. A STORY OF ADVENTURE. By Baroness Orczy.

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(Continued from last week.) CHAPTER XXVII.

On the Track. Never for a moment did Marguerite Blakeney hesitate. The last sounds outside the "Chat Gris" had died away in

a hilly road, where the poor beast, who was sure to be half-starved, would have to be allowed long and frequent rests. The road lay some distance from the sea, bordered on either side by shrubs and stunted trees, sparsely covered with meagre foliage, all turning away from the North, with their branches looking in the semi-darkness like stiff, ghostly hair, blown by a perpetual wind.

Fortunately, the moon showed no desire to peep between the clouds, and Marguerite, hugging the edge of the road, and keeping close to the low line of shrubs, was fairly safe from view. Everything around her was so still : only from afar, very far away, there came like a long, soft moan, the sound of the dissant sea.

The air was keen and full of brine : after that enforced period of inactivity, inside the evil-smelling, squalid inn, Marguerite would have enjoyed the sweet scent of this autumnal night, and the distant melancholy rumble of the waves : she would have revelled in the calm and stillness of this lonely spot, a calm. broken only at intervals by the strident and mournful cry of some distant gull, and by the creaking of the wheels some way down the road : she would have loved the cool atmosphere, the peaceful immensity of Nature, in this lonely part of the coast: but her heart was too full of cruel foreboding, of a great ache and longing for a being who had become infinitely dear to her.

Her feet slipped on the grassy bank, for she thought it safest not to walk near the center of the road, and she found it difficult to keep up a sharp pace along the muddy incline. She even thought it best not to keep too near to the cart; everything was so still that the rumble of the wheels could not fail to be a safe guide.

The loneliness was absolute. Already the few dim lights of Calais lay far behind, and on this road there was not a sign of human habitation, not even the hut of a fisherman or of a woodcutter anywhere near; far away on her right was the edge of the cliff, below it the rough beach, against which the incoming tide was dashing itself with its constant, distant murmur. And ahead the rumble of the wheels, bearing an implacable enemy to his triumph.

Marguerite wondered at what particular spot on this lonely coast Percy could be at this moment. Not very far surely, for he had had less than a quarter of an hour's start of Chauvelin. She wondered if he knew, that in this cool, oceanscented bit of France, there lurked many spies, all eager to sight his tall figure. to track him to where his unsuspecting friends waited for him, and then, to the night. She had heard Desgas giving close the net over him and them.

Lightning is not Attracted by this Roof

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The strongest guarantee that an article will make good is the record that it has made good. This roofing has beaten out the best records of shingles and metal Being fiee from metal it can not attract lightning. Remember the name---

VEPONSE

Longest in Wear - Real Fire Protection

One of the Railway Terminals in Chicago was covered with tin. After a few years the tin began to leak. NEPONSET Paroid Roofing was laid over the leaky tin. Seven years later the station was torn down but the NEPONSET Paroid roofing was so good that it was rolled up and laid on other stations in the suburbs. Seven years of burning cinders, train smoke and changeable weather had not taken the life out of NEPONSET Paroid. It wears longer than wooden shingles or metal roof-Costs less to buy and less to lay. Write today for all the facts, ing. the dealer's name and new

Blue Print Barn Plans-FREE

Designed in shape and size especially for Canadian farmers.

NEPONSET Roofings are made in Canada.

F. W. BIRD & SON, 444 Heintzman Bldg., Hamilton, Ont. Established 1795 Winnipeg St. John, N. B. "ancouver, B. C.

towards the fort, to get a reinforcement in the Jew's vehicle, was nursing comof a dozen more men : six were not thought sufficient to capture the cunning together with content, as he thought of Englishman, whose resourceful brain was even more dangerous than his valour and his strength.

orders to his men, and then starting off

Then a few minutes later she heard the Jew's husky voice again, evidently shouting to his nag, then the rumble of wheels and noise of a rickety cart bumping over the rough road.

Inside the inn, everything was still. Brogard and his wife, terrified of Chauvelin, had given no sign of life; they hoped to be forgotten, and at anyrate to remain unperceived : Marguerite could hot even hear their usual volleys of muttered oaths.

She waited a moment or two longer, then she quietly slipped down the broken stairs, wrapped her dark cloak closely round her and slipped out of the inn. The night was fairly dark, sufficiently so at anyrate to hide her dark figure from view, whilst her keen ears kept count of the sound of the cart going on ahead. She hoped by keeping well within the shadow of the ditches which lined of her : she had been a useful tool, that the road that she would not be seen by Desgas' men when they approached, or by the patrols, which she concluded were still on duty.

Thus she started to do this, the last long and frequent halts. stage of her weary journey, alone, at "Are we a long way yet from Mique-night, and on foot. Nearly three leagues lon?" asked Chauvelin from time to to Miquelon, and then on to the Pere time. Blanchard's hut, wherever that fatal spot might be, probably over rough roads : uniform placid reply. she cared not.

fast, and though she was weary with readway." was Chauvelin's sarcastic commental fatigue and nerve strain, she knew ment that she could easily keep up with it out

Chauvelin, on ahead, jolted and jostled fortable thoughts. He rubbed his hands the web which he had woven, and through which that ubiquitous and daring Englishman could not hope to escape. As the time went on, and the old Jew drove him leisurely but surely along the dark road, he felt more and more eager for the grand finale of this exciting chase after the mysterious Scarlet Pimpernel.

The capture of the audacious plotter would be the finest leaf in Citoyen Chauvelin's wreath of glory. Caught, redhanded on the spot, in the very act of aiding and abetting the traitors against the Republic of France, the Englishman could claim no protection from his own country. Chauvelin, had, in any case, fully made up his mind that all intervention should come too late.

Never for a moment did the slightest remorse enter his heart as to the terrible position in which he had placed the unfortunate wife, who had unconsciously betrayed her husband. As a matter of fact. Chauvelin had ceased even to think was all.

The Jew's lean nag did little more than walk. She was going along at a slow jog trot, and her driver had to give her

"Not very far, your Honour," was the

"We have not yet come across your The Jew's nag could not get on very friend and mine, lying in a heap in the

"Patience, noble Excellency," rejoined

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THE FARMER'S ADVOCATE.

the son of Moses, "they are ahead of us. I can see the imprint of the cart wheels, driven by that traitor, that son of the Amalekite."

'You are sure of the road ?"

"As sure as I am of the presence of those ten gold pieces in the noble Excellency's pockets, which I trust will pres-ently be mine."

" As soon as I have shaken hands with my friend the tall stranger they will certainly be yours."

" Hark, what was that ?" said the Jew suddenly.

Through the stillness, which had been absolute, there could now be heard distinctly the sound of horses' hoofs on the muddy road.

"They are soldiers," he added in an awed whisper.

"Stop a moment, I want to hear," said Chauvelin.

Marguerite had also heard the sound of galloping hoo's coming towards the cart and towards herself. For some time she had been on the alert thinking that Desgas and his squad would soon overtake them, but these came from the opposite direction, presumably from Miquelon. The darkness lent her sufficient cover. She had perceived that the cart had stopped, and with utmost caution, treading noiselessly on the soft road, she crept a little nearer.

Her heart was beating fasty she was trembling in every limb; already she had guessed what news these mounted men would bring : "Every stranger on these roads or on the beach must be shadowed, especially if he be tall or stoops as if he would disguise his height; when sighted a mounted messenger must at once ride back and report." Those had been Chau-velin's orders. Had then the tall stranger been sighted, and was this the mounted messenger, come to bring the great news, that the hunted hare had run its head into the noose at last? Marguerite, realizing that the cart had come to a standstill, managed to slip nearer to it in the darkness; she crept close up, hoping to get within earshot, to hear what the messenger had to say. She heard the quick words of challenge-

"Liberte, Fraternite, Egalite !" then Chauvelin's quick query :--

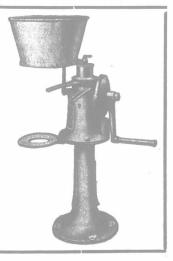
"What news ?" Two men on horseback had halted be-

side the vehicle. Marguerite could see them silhouetted against the midnight sky. She could hear their voices, and the snorting of their horses, and now, behind her, some little distance off, the regular and measured tread of a body of advancing men : Desgas and his soldiers.

There had been a long pause, during which, no doubt, Chauvelin satisfied the men as to his identity, for presently questions and answers followed each other in quick succession.



The World's Latest and Best. The Machine that Does the Work.



Try out the merits of the

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Clay Gates are made to many styles and sizes — a gate for every purpose. They can be raised to let small stock through. yet keep back cattle and horses.

be removed instantly ways air tight. The roof is selfsupporting ; built without rafters.

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Orders and inquiries are com-

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to realize the advantages of

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Green Feed Silo is than any

Here are some of the points of

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Material : Canadian Spruce espec-

All lumber is saturated with a solu-

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two or three times to the life of the

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Only malleable iron lugs are used.

All doors on the Ideal Green Feed

Doors are only 6 inches apart, can

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Silos are self-sealing.

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De Laval Dairy Supply Co., Ltd. LARGEST AND OLDEST SILO MANUFACTUMERS IN DOMINION. 173 William Street, MONTREAL 14 Princess Street, WINNIPEG

Junior Clerks Wanted FOR A **CANADIAN BANK**

Young men 16 to 19 years of age, and of good character wanted. Prefer those who have had a year or more in high school. Salary at start \$300. Increases yearly if satisfactory. Living allowance to junior clerks in large cities away from home \$100. Living allowance to all appointed to branches west of Lake Superior \$200

Apply in own handwriting, to Inspector, Room 1,002, Lumsden Building, Toronto.

"You have seen the stranger ?" asked Chauvelin, eagerly.

"No, citoyen, we have seen no tall stranger; we came by the edge of the cliff."

" Then ?"

"Less than a quarter of a league beyond Miquelon, we came across a rough construction of wood, which looked like the hut of a fisherman, where he might keep his tools and nets. When we first sighted it, it seemed to be empty, and first we thought that there was nothing suspicious about it until we saw some smoke issuing through an aperture at the side. I dismounted and crept close to it. It was then empty, but in one corner of the hut there was a charcoal fire and a couple, of stools were also in the hut. I consulted with my comrades, and we decided that they should take cover with the horses, well out of sight, and that I should remain on the watch, which I did."

"Well ! and did you see anything ?"

"About half an hour later I heard voices, citoyen, and presently two men came along towards the edge of the cliff: they seemed to me to have come from the Lille Road. One was young, the other quite old. They were talking in a whisper to one another, and I could not hear what they said."

One was young, the other quite old. Marguerite's aching heart almost stopped beating as she listened : was the young one Armand ?-her brother ?-and the old one de Tournay-were they the two fugitives who, unconsciously, were used as a decoy, to entrap their fearless and noble rescuer



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short, have

on your farm. Made of high carbon steel tubing of large diameter and heavy wire fabric. May cost more, but worth more.

Clay Gates are sent for 60 days' free trial, that you may prove them before buying. 20,000 old last year on these terms. Send to-day for illustrated price list. I guarantee every Clay Gate to be free from defects in material or workmanship. I will replace free of cost any parts, or the entire gate, giving out for such reasons. H. RALPH STEELE, Manager.

CANADIAN GATE CO., LTD., 34 Morris St., GUELPH, ONT.

" The two men presently went into the hut," continued the soldier, whilst Marguerite's aching nerves seemed to catch the sound of Chauvelin's triumphant chuckle, "and I crept nearer to it then. The hut is very roughly built, and I caught snatches of their conversation."

"Yes ?-Quick !-What did you hear ?"

"The old man asked the young one if he were sure that was the right place. 'Oh, yes,' he replied, ''tis the place sure enough,' and by the light of the charcoal fire he showed to his companion a paper which he carried. 'Here is the plan,' he said, 'which he gave me before I left London. We were to adhere strictly to that plan, unless I had contrary orders, and I have had none. Here is the road we followed, see . . . here the fork . here we cut across the St. Martin Road , and here is the footpath which

brought us to the edge of the cliff.' I must have made a slight noise then, for the young man came to the door of the hut and peered anxiously all round him. When he again joined his companion they whispered so low that I could no longer hear them."

"Well ?-and ?" asked Chauvelin, impa tiently.

"There were six of us altogether patrolling that part of the beach, so we consulted together and thought it best that four should remain behind and keen the hut in sight, and I and my comrade rode back at once to make report of what we had seen."

"You saw nothing of the tall stranger ?"

" Nothing, citoyen."

"If your comrades see him, what would they do ?"

"Not lose sight of him for a moment, and if he showed signs of escape, or any boat came in sight, they would close in on him, and, if necessary, they would shoot : the firing would bring the rest of the patrol to the spot. In any case they would not let the stranger go."

"Ave ! but I did not want the stranger hurt-not just yet," murmured Chauvelin, savagely, "but there, you've done your best. The Fates grant that I may not be too late

"We met half a dozen men just now

who have been patrolling this road for several hours. " Well ?"

" They have seen no stranger either." "Yet he is on ahead somewhere in a cart, or else . . . Here ! there is not a moment to lose. How far is that hut

from here ?" "About a couple of leagues, citoyen." "You can find it again ?- at once ?without hesitation ?"

" I have absolutely no doubt, citoyen." " The footpath to the edge of the cliff ?

-Even in the dark ?" " It is not a dark night, citoyen, and I know I can find my way," repeated

the soldier firmly. "Fall in behind then. Let your comrade take both your horses back to Calais. You won't want them. Keep beside the cart, and direct the Jew to drive straight ahead; then stop him, within a quarter of a league of the footpath; see that he takes the most direct road."

Whilst Chauvelin spoke, Desgas and his men were fast approaching, and Marguerite could hear their footsteps within a hundred yards behind her now. She thought it unsafe to stay where she was, and unnecessary too, as she had heard enough. She seemed suddenly to have lost all faculty even for suffering : her heart, her nerves, her brain seemed to have become numb after all these hours of ceaseless anguish, culminating in this awful despair.

For now there was absolutely not the faintest hope. Within two short leagues of this spot, the fugitives were waiting for their brave deliverer. He was on his way, somewhere on this lonely road, and presently he would join them; then the well-laid trap would close; two dozen men, led by one, whose hatred was as deadly as his cunning was malicious, would close round the small band of fugitives and their daring leader. They would all be captured. Armand, according to Chauvelin's pledged word, would be restored to her, but her husband, Percy. whom with every breath she drew she seemed to love and worship more and more, he would fall into the hands of a remorseless enemy, who had no pity for a brave heart, no admiration for the courage of a noble soul, who would show nothing but hatred for the cunning antagonist who had baffled him so long.

She heard the soldier giving a few brief directions to the Jew, then she retired quickly to the edge of the road, and cowered behind some low shrubs, whilst Desgas and his men came up.

All fell in noiselessly behind the cart, and slowly they all started down the dark road. Marguerite waited until she reckoned that they were well outside the range of earshot, then she, too, in the darkness, which suddenly seemed to have become more intense, crept noiselessly

THE FARMER'S ADVOCATE.

HAD DYSPEPSIA FOR TEN YEARS

COULD NOT KEEP ANYTHING ON HER STOMACH

Dyspepsia is caused by poor digestion, and to get rid of this terrible affliction, it is necessary to place the stomach in a good condition. For this purpose Burdock Blood Bitters has no equal.

Mrs. Norman A. MacLeod, Port Bevis, N.S., writes:-"For the last ten years I suffered dreadfully with dyspepsia, and I could not keep anything on my stomach. I tried several kinds of medicines, but none of them seemed to do me any good. At last a friend advised me to try Burdock Blood Bitters, which I did, and after using five bottles I was completely cured. I would advise any one troubled with stomach trouble to use B.B.B. I cannot recommend it too highly."

Burdock Blood Bitters is manufactured only by The T. Milburn Co., Limited, Toronto, Ont.



Condensed advertisements will be inserted under this heading at two 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 for any advertisement under this heading. Parties having good pure-bred poultry and eggs for sale will find plenty of customers by using our advertising columns. No advertisement in-serted for less than 30 cents.

EGGS-S.-C. White Leghorn, heavy layers and prizewinners, 75c, per 15. A hatch guaranteed; \$3.50 per 100. Geo. D. Fletcher, Binkham, Ontario, Erin Sta.

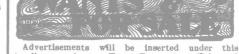
ULY SALE-2,000 baby chicks; 10,000 hatch-ULY SALE-2.000 baby chicks; 10,000 hatch-ing eggs; 500 yearling hens; 50 yearling males. Chicks, \$20.00 per 100; eggs, \$1.50 per 15, \$7.00 per 100; hens, \$1.50 to \$2.00 each; males, \$3.00 to \$5.00 each. B. P. Rocks, White Wyandottes, R. C. R. I. Reds and S. C. White Leghorns. Write to-day for illustrated catalogue. L. R. Guild, Box 16, Rockwood, Ontario

\$6.41 PER HEN-Write for our beauti-fully illustrated catalogue. Photos from life. B. P. Rocks, White Wyandottes, R. O. R. I. Reds, S.-O. White Leghorns. Eggs: \$1.50 per 15; \$2.75 per 30; \$7.00 per 100. L. R. Guild, Box 16, Rockwood, Ont.

SINGLE COMB BROWN LEGHORNS! Eggs for hatching, \$1.00 per 15. Bred from good laying strains. T T \$71

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SPRINGS I



eading, such as Farm Properties, Help and Situations Wanted, and Pet Stock. TERMS—Three cents per word each insertion. 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.

E Good WAGGE to Avent of ANN WANTED -L Good wages to first-class man; no other need apply. W. P. Sparling, Anderson, Ont.

FARM FOR SALE—North half of Lot 1, Con. 2, Innisfil, consisting of 100 acres, all cleared; first-class grain farm; soil, clay and clay loam, well fenced and watered; hip-roof bank barn, 46x92, with shed attached; frame house, good orchard; within one mile of Cookstown, where are 3 churches, good school and market. Terms to sult the purchaser. If not sold, will rent in the fall. Orlando Lewis, Box 31. Cookstown. Lewis, Box 31, Cookstown.

RARM FOR SALE-180 acres, 1st concession Delaware, 3 miles from Southwold Stn., 14 miles from London. Excellent grain and dairy farm; well watered; 6 acres apple orchard; brick house and suitable outbuildings. Apply : Joseph Weld, "Farmer's Advocate," London.

FARM FOR SALE—114 acres, being lot 4, con. 7, Darlington; one of the best grain farms in the township; 14 miles from Village Tyrone, in which are school, church, post office, grist mill, blacksmith shop, grocery stores, etc.; 4 acres young orchard just starting to bear, 5 acres hard wood; good big farmhouse con-taining 12 rooms; barn 36x100 ft., with good stone stabling underneath; good driving-shed 24x40 ft.; henhouse, sheep-pen, all in good re-pair. Well 'watered, well fenced, clean and in good state of cultivation; no improvements to make. Plowing possession after harvest; full possession December 1st. Cheap for quick sale. Apply to John Noble, Tyrone; David Noble, Orono; or A. E. McLaughlin, barrister, Bowmanville, Ontario. Bowmanville, Ontario.

MPROVED FARMS FOR SALE in the fa-mous County of Wellington, near Ontario Agricultural College. Jones & Johnston, Guelph.

ONE HUNDRED AND TWENTY ACRES -Farm and crop must be sold. A bargain. to city. D. Barlow, Guelph

VANCOUVER ISLAND, BRITISH COLUM-VANCOUVER ISLAND, BRITISH COLUM-BIA, offers sunshiny, mild cilmate: good profits for men with small capital in fruit-growing, poultry, mixed farming, timber, manu-facturing, fisheries, new towns. Good chances for the boys. Investments safe at 6 per cent. For reliable information, free booklets, write Vancouver Island Development League, Room A, 23 Broughton Street, Victoria, British Columbia.

WANTED-Cash paid for Military Land Grants in Northern Ontario. Please state price and location. Box 88, Brantford.

WANTED-An experienced girl for general VV housework; no washing. Wages, \$25.0 month. Write at once. Mrs. E. A. Welle R. No. 1, Eden Bank Farm, Chilliwack, B.C. \$25.00 Welle

W ANTED-Position as farm manager. Two vears' shorthorns,

FOUNDED 1866

W ANTED-By practical farmer and two sons, farm to run on shares, or would take position as farm manager. No objection to going West. Best of references. Apply Box W, "Farmer's Advocate," London, Ont. Apply Box

ANTED-Reliable man to work on farm. W W Permanent position if satisfactory. For further particulars apply with references to; J. W. Millar, Box 24, Burk's Falls.

 $\frac{1500^{\text{OR 200 ACRE FARM FOR SALE}-}{\text{Lot 31, Con. 8, London Township.}}$ Well fenced; thorough drainage; good orchard. For particulars apply: Joseph Robson, Vanneck, Ontario



Milk Substitute For Calves

We would like to get the business attention of the readers of this journal to this genuinely first-class preparation.

We recognize that the object of every feeder is to get the best results at the least comparative cost.

Unless this Milk Substitute is given a trial, our efforts to meet these requirements will fail, to the extent of the neglect of each, to take advantage of the following offer, viz .: That we will fill the order of any responsible party on the condition that the article need not be paid for unless found satisfactory in every respect.

We have testimonials that it is superior to linseed meal and other high - prived substitutes.

Sold in 100-lb. bags at \$2.50, f. c. b.

Park-Graham Milling Co. 17 River Street, Toronto

Shipments of Clydesdales from Glasgow ANTED-Position as farm manager. Two years' experience at O. A. College; ten ' experience in breeding and exhibiting thorns, Clydesdales and Standard-bred s; best of references. Box Y, "Farmer's Alta., and G. B. Hughes, Dergelfa, B. C.

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(To be continued.)

News of the Week.

The dock strike in England has collapsed.

At Goderich, as at Niagara, the regiments in camp have been short of men. * *

The Legislature in Saskatchewan has been dissolved, and elections will be held on July 11th.

Two airmen met death in France on June 19th, through the collision of their biplanes during a mist.

* *

A deputation of between six and seven hundred men from Northern Ontario, waited upon the Ontario Government on June 21st, to ask for the construction of good roads and more railways in the North Country.

The Chinese Premier, Tang Shao-Yi, resigned on June 18th, giving as his reason discouragement over the evident want of confidence on the part of foreign Powers; later, the six great Powers, Great Britain, the United States, Germany, France, Russia, and Japan, agreed to the terms of the loan of \$300,000,000asked by the Chinese Republic

The Machine that is THE "MELOT Has the Largest Sale different from all in the British others Empire

Every Melotte Guaranteed by us.

Advocate," London, Ontario.

The "MELOTTE" has replaced many thousands of other makes of Cream Separators, and is always purchased by those who know its value.

The Reason Why:

Lasts Longest. Does its work best. With least power and gives genuine satisfaction. Therefore the "MELOTTE" is the cheapest cream separator to buy.

For Proof Ask a Neighbor

Names of satisfied users in your neighborhood given you for the asking. Write us.

R. A. LISTER & COMPANY, LIMITED, STUART A. LISTER. Manager 197 Princess Street 58-60 Stewart Street TORONTO, ONT.

Winnipeg, Man.

82 Water Street St. John, N. B.



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wheat very thick.

THE FARMER'S ADVOCATE.

QUESTIONS AND ANSWERS. Miscellaneous.

LIGHTNING RODS.

protection from lightning?

ning rods on a barn? G. C. Ans .- 1 and 2. Yes; if properly constructed. They must be placed deep enough in the ground to reach moisture at all seasons.

ENCOURAGING HAIR-MARE AND FOAL QUERIES.

on a horse's tail to thicken the hair? 2. Should mares be served when they are full of grass, or should they be gaunted up before service ?

3. Foal one week old passed blood with its water and was constantly straining. Got better in a couple of days. What was the matter ? W. H.

Ans.-1. Get an ointment made of 1 dram powdered cantharides, mixed with 2 ounces vaseline, and rub a little well in once daily.

ordinary conditions.

could not have been serious.

SOW THISTLE.

1. Do you think it possible to kill sow thistle ? 2. Will salt kill it? Would you ad-

vise using it? 3. If salt is used, what kind and how

thick should it be used ?

4. Would you advise leaving the field in pasture to avoid more spreading over A. E. G. the field and farm?

Ans .-- 1. If possible, break up the field and cultivate thoroughly as a summerfallow one summer. Follow the next summer with a hoed crop or rape sown in drills and cultivated until it gets too rank to permit of further cultivation.

2. On patches, salt might kill it. heavy application of manure on it is also recommended, or covering with tar paper

3. Use common salt, very thick. 4. No; cultivate thoroughly and get rid of it.

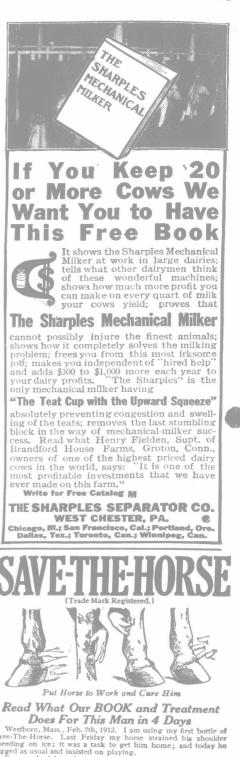
BUILDING PAINT AND OTHER QUERIES.

A new barn is 45 feet wide, posts 16 feet long, and the usual hip roof. About how many square feet is in the end ?

2. How many square feet will a gallon of hand-mixed oil paint cover? Siding is planed hemlock; two coats.

How much more paint will be re-3. quired when lumber is old ?

4. Roof is metal shingles. How many FOUNDED 1866



Does For 1 his Man in 4 Days Westboro, Mass., Feb. 7th, 1912. I am using my first bottle of Save-The-Horse. Last Friday my horse strained his shoulder speeding on ice; it was a task to get him home; and today he jogged as usual and insisted on playing. From a dead lame horse to a sound jogging one inside four days seems almost unbelievable, yet it certainly is a fact. Where one can have the benefit of your book not one moment of valuable time need be lost. I shall retain the contract certificate, yet am well satisfied. Very truly, Everett L, Smith.

SAVE-THE-HORSE PERMANENTLY CURES Bone and Bog Spavin, Ringbone (except Low Ringbone), Curb, Thoroughpin, Splint, Shoe Boil, Wind Puff, Injured Tendons, and all lameness, without scar or loss of hair. Horses may work



Show

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H BRE'S a fair and square proposition to every man who owns, breeds or works horses. We offer to tell you how to cure a horse of lameness-absolutely free. We offer you without one cent of charge, the advice of one a good horse, temporarily lame, is sold for almost nothing, be-cause the owner does not know how to go about getting rid of the lameness. Don't let your horse suffer-don't sell him for a few dollars-ask us to tell you how to remove the lameness safely, surely and guickly. See illustration of horse below and read paragraph, "Free Diagnosis."

a 111(:

upon request. Your Druggist Will Obtain Mack's \$1,000 Spavin **Remedy For You-**

OL

Remedy For You-If you ask him. Price \$2.50 per bottle. If he re-fuses, remit \$2.50 to us and we will see that your order is filled without delay. No matter where, when or from whom you buy Mack's \$1000 Spavin Remedy the price is the same. Every bottle is absolutely guaranteed, and is accompanied by our \$1000 Warranty Bond, which insures you that your money will be refund-ed if the remedy falls to do all we claim for it, as stated in our guaranty. Do not accept a substitute, for there is no other remedy like Mack's \$1000 Spavin Remedy—nothing so powerful and sure to cure. It stands supreme as a remedy in all forms of lameness.

McKALLOR DRUG COMPANY

Binghamton, N. Y.



Free Book-"Horse Sense"

Send us the Free Diagnosis Coupon, get abso-intely free a copy of our book "Horse-Sense." Describes and illustrates diseases of horses limbs, shows correct name for every part of horse and tells valuable facts every horse owner ought to know.

LYMAN BROS. & CO., Toronto, Distributors to Drug Trade

Union Stock Yards of Toronto, Ltd.

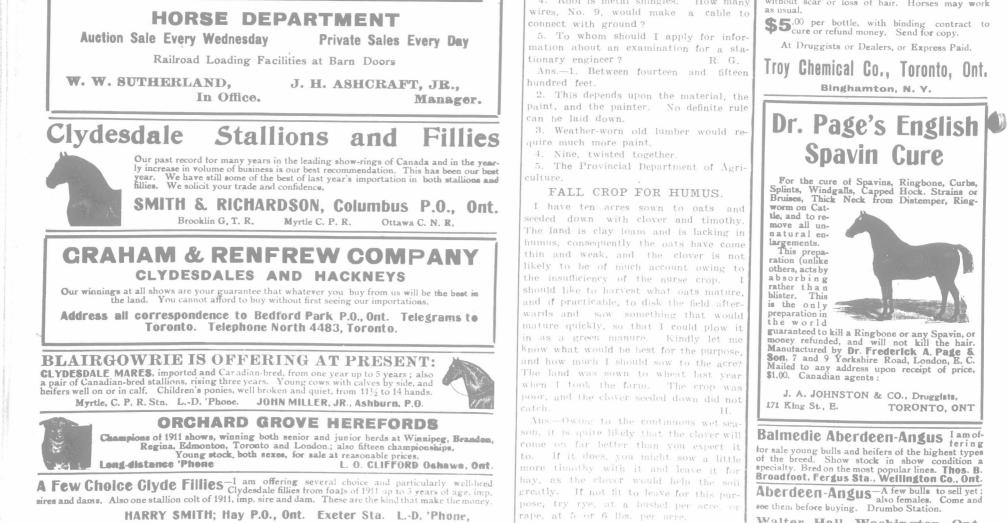
1. Are lightning rods on a barn any

2. Would you advise the use of light-

1. Is there anything that can be put

2. It should not matter. Breed under

3. As the foal recovered, the trouble



Walter Hall, Washington, Ont.

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THE FARMER'S ADVOCATE.

Extra Prizes of \$25.00 Each in Canadian Gold

will be given to the owner of every animal (horses, cattle, sheep or Pigs) winning a First Prize at the Canadian National Exhibition held at Toronto, 1912-the only condition being that the prize-winning animal must have been fed regularly three times a day from July 1st, 1912, on the Original

10LASSINE (Made in **England**)

Remember the name-don't get mixed up with other prepara-tions. The ORIGINAL and GENUINE MOLASSINE MEAL bears this trade mark on every 1189



The best feed for live stock known to Science.

MOLASSINE MEAL is a food and replaces other food stuffs. It will keep all animals in good health. Prevents and eradicates worms.

HORSES will do more and better work, keep in better health and will not chafe from the harness so much when fed on Molassine Meal. Is equally suitable for heavy draft horses, hunters and race horses, and will bring Show Animals to the pink of condition quicker and better than any ordinary methods of feeding.

MILCH COWS will give an increased flow and better quality of milk when fed on Molassine Meal-also Molassine Meal will prevent any taint in the milk when cows are fed on roots or corn.

STOCKERS can be fattened quicker on Molassine Meal than anything else. It aids and digests their other foods and keeps them free from worms.

PIGS will be ready for the market ten days to three weeks earlier when fed on Molassine Meal than when fed on any other food.

SHEEP AND LAMBS, fed on Molassine Meal, produce the finest mutton and meat obtainable, securing top prices.

POULTRY will fatten quicker and the hens will lay more eggs when fed on Molassine Meal

Order from your nearest dealer but be sure and get the genuine. Be sure that the trade mark is on the bag, as above.

MOLASSINE MEAL is put up in 100-lb. bags.

FREE SOUVENIR.

Fill in and mail the following coupon to-day and get one of our souvenir gifts free. Put a cross against the souvenir you would like to have.

To the L. C. Prime Co., Ltd.

204 Pacific Building, Toronto, Ont.

Please send me your free souvenir (Fountain Pen, Pocket Pencil or Match, Box) also full particulars regarding Molassine Meal.

Name..... Occupation.....

L. C. PRIME CO., LTD., Distributors, 402 Board of Trade, Montreal.

Name of your feed dealer Address.....

..... London Farmer's Advocate.

And the second sec

The Molassine Company, Ltd., London, Eng.

WILLOW BANK STOCK FARM Shorthorns and Leicesters

Herd established 1855, flock 1848, have a special good lot of Shorthorns of either sex to offer of various ages; also a grand lot of Leicester sheep of either sex —a few imported ones to offer. JAMES DOUGLAS donia, Ontario Caledonia,

1854 Maple Lodge Stock Farm 1912 Have some **SHORTHORN HEIFERS** two years old from cows giving 50 pounds milk per day, and in calf to my stock bull, Senator Lavender.

Grand young LEICESTERS from imp. Wooler of Sandy Knowe, champion at Toronto, and imp. Royal Connaught.

A. W. SMITH, MAPLE LODGE, ONTARIO Lucan Crossing, G. T. Ry., one mile.

QUESTIONS AND ANSWERS. Miscellaneous.

THOROUGHBRED.

Kindly explain through your valuab,e paper what is meant by the word Thoroughbred ? So many people are under the impression that every horse that will register is a Thoroughbred ? W. J. M.

Ans .- This has been answered time and again through these columns. The term "Thoroughbred" is only rightly applied when speaking of a particular breed of horses. A registered animal of the Clydesdale, Shire, Hackney, or other breed, is not a Thoroughbred, but a purebred



Shorthorn Bulls and Clydesdale Mares

If you are in the market for a young bull, write us for particulars, or, better still, come and see them. We have 13 young bulls, from 8 to 14 months old, of good breeding and quality. We also have four imported Clydesdale mares, safe in feal.



HORSE COUGHS -SILO MATE-RIAL AND VENTILATION.

1. I have a horse six years old that took a cold about five weeks ago, and he has had a bad cough ever since. I am afraid it will turn into heaves, as the cough is getting worse. Will you please advise treatment ?

2. Would you recommend cedar for silo? 3. What kind of ventilation would you advise for cow stable 33 x 48 feet ? J S

Ans .-- 1. The symptoms indicate heaves which, if well established, cannot be cured, but if alteration of the structure of the lungs and air cells has not taken place, it may be possible to arrest the trouble by the following treatment: Feed first-class hay in small quantities. If working, feed liberally on good oats, dampen all he eats with lime water, and give every morning a ball composed of 11 drams powdered opium, 2 drams of solid extract of belladonna, 1 dram camphor, and 20 grains digitalis, with sufficient oil of tar to make plastic. Roll in tissue paper and administer.

2. It might do all right, but would be rather expensive. Why not use cement? 3. The Rutherford system is good, or a combination of the Rutherford and King systems is satisfactory. Arrange intakes at or near the floor, and direct the current of air upwards. The total area of intake should be at least fifteen square inches per head of cattle or horses stabled, and the outlets twice as large. The outlet shaft should proceed to the peak of the building, and be built tight, and never be less than eighteen inches across. Two layers of hoard should be used, or matched stuff.





NOTHING in cheese making is more important than salting the curd.

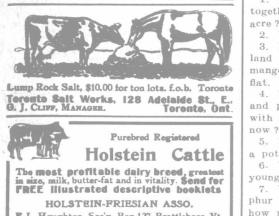
The flavor-even colorsmoothness-keeping quality and market price - all depend on the way the curd is salted, and on the salt used.



Makes Prize Cheese

It gives a smooth, rich flavor to the cheese-dissolves slowly-stays in the curd—and makes the cheese keep as good cheese should.

Windsor Cheese Salt is cheapest in the end because it goes further.



THE FARMER'S ADVOCATE.

QUESTIONS AND ANSWERS. Miscellaneous.

PROBABLY CROP-BOUND.

What is the cause of my hens getting so crop heavy? The crop is very large and full, almost touching the ground, yet they pick around trying to eat; seem well every other way. I feed wheat and oats as hard feed, and once a day I give soft feed, which has quite a little flour in it, which makes it kind of sticky. Some tell me it is indigestion. Please give cause and cure.

A SUBSCRIBER. Ans .-- It is difficult to state what has caused the trouble. The symptoms are those usually associated with crop-bound. The only thing to do is to give the birds say a teaspoonful or a dessertspoonful of castor oil or raw linseed oil, and knead the crop well, so that the oil will get mixed with the clogging material, whatever it may be. Ordinarily they will come out all right with this treatment.

SALE OF CATTLE.

Mr. J. agrees to sell 11 head of cattle to a cattle-buyer for \$385, which was accepted by both parties, but the cattle-Buyer did not pay any deposit on the cattle, as he had a witness with him to prove the sale was made. But the next day J. sells the cattle again to another buyer for \$400.

1. Has a deposit got to be paid on cattle when a sale is made?

2. Can the first buyer sue for damages for the loss he sustained by not having enough cattle to fill his car? A SUBSCRIBER. Ontario.

Ans.-1. Yes; where the price is \$40 or more, unless the buyer accepts at least one of the cattle, and actually receives the same, or signs some note or memorandum in writing of the bargain. 2. No; assuming, of course, that there was no such acceptance, or written and signed memo., as above mentioned.

MISCELLANEOUS QUERIES.

1. How much salt and plaster mixed together would be required to sow an acre ?

2. What benefit has it to the land? 3. Is it too late to sow the salt and land plaster on the mangel field ? The mangels are up, and are sowed on the flat.

4. Would it be all right to sow salt and plaster on a field that was seeded with alfalfa this spring, or is it too late

5. Is salt and plaster good to sow on a potato field?

6. What is good to cure scours in a young colt just foaled ?

7. Would it be any benefit to sow sulphur with lime and plaster? If so,



an inoffensive yet powerful liquid preparation that will rid your animals of the flies that swarm about them; destroys lice, ticks, fleas; cures skin diseases, scabs, tetters, etc.; cleans, disinfects and removes offensive odors.

You know that animals cannot be healthy when devoured by insects; you know how quickly hogs decline in weight when they are troubled with vermin; by preventing suffering to your cattle you not only perform an act of humanitarianism, but insure perfect health to your animals, and profit by it in the end. Sold in collow areas at \$2 and but as the

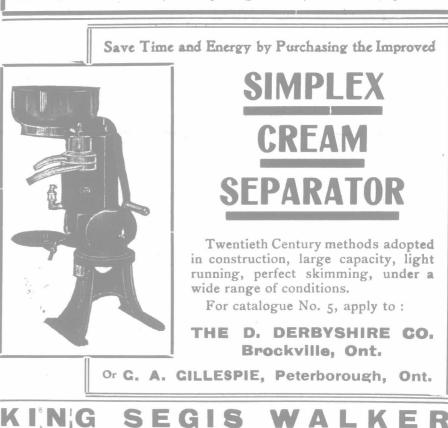
Sold in gallon cans at \$2 each, but as the contents of a can are to be diluted in four gallons ot water, it makes the price really 40c, a gallon. Special "Sapho" sprayer, 50c.

Descriptive circular sent free upon request. DISTRIBUTORS FOR ONTARIO :

THE 'MCLAREN IMPERIAL CHEESE CO., LIMITED, WOODSTOCK, ONT.

RID YOUR CATTLE OF THE FLY PEST

THE SAPHO MANUFACTURING COMPANY, LIMITED 386 Henri Julion Ave. (formerly Sanguinet St.) MONTREAL, QUEBEC



The highest pedigreed sire in Canada. Average record of dam, gr. dams, and g. gr. dams: Butter, 28.36 lbs.; milk, 544.42 lbs.; fat, 4.24 lbs. Fee for service, \$25. This sire's get are 80 per cent. females. For sale: A grandson of King Segis and Pontiac Pet, record 37.67 lbs. butter and the world's champion; also a bull calt

FOUNDED 1866

F.L. Houghton, Sec'y, Box 127, Brattleboro, Vt.

lsteins of Quality Write us to-day for our proposition, telling

you how any good dairyman may own a registered Holstein bull from a Recordof-Performance cow without investing a cent for him. Monro & Lawless, "Elmdale Farm," Thorold, Ont.

> MINSTERFARM Offers YORKSHIRES of both sexes, and

a **HOLSTEIN BULL CA:** F from a daughter of P. P. C. Burke, whose daughters are testing from 4.4 to 5.5% fat; sired by Lakeview Burke Fayne, whose dam and sire's dam average 23.14; his sire has 10 sisters averaging 30.63 For extended pedigree write: RICHARD HONEY & SONS, BRICKLEY, ONT

The Maples Holstein Herd offers a splendid lot of bull calves, all sired by Prince

Aaggie Mechthilde and all from record of merit dams. For pedigrees and prices write

WALBURN RIVERS,

Ontarlo Folden. Maple Grove Holsteins Herd he a ded by King Lyons Hengerveld, the greatest 30 lbs. back butter bred bull of the breed in this country. For stock of this kind addres

H. BALLERT, Tavistock R R No. 5. Ont

Holstein Bulls for sale – Springbank farm is offering two choicely bred Holstein bulls for sale at reasonable prices. For particulars write to: Wm, Barnet & Sons, Living Springs P. O., Ont. Fergus station, C. P. R and G. T. R.

Maple Grove Holsteins by King Lyons Hengerveld, the greatest 30 lbs. back butter-bred bull of the 'reed in this country. For stock of this

H. BOLLERT, Tavistock, R. R. No. 5, Ontario

how much ?

8. Would the recipe for canning green peas be all right for canning green beans? 9. I have a piece of timothy sod to plow up as soon as hay comes off. Would sowing rape as soon as plowed, to be plowed under this fall for manure, be any advantage? Field for potatoes next E. P. F. vear.

Ans.-1. About 200 lbs. salt.

2. Land plaster, gypsum, or sulphate of calcium, is not, strictly speaking, a plant food, but it has some value in that it renders some of the phosphates and potash in the soil available to the plants. Common salt does not contain any of the constituents usually considered essential to the growth of plants. It is also. supposed to promote the decomposition of potash, lime, and magnesia already in the soil, making them available for the crops. Salt is also believed to brighten and stiffen the straw.

3. The best time to sow this material is as a top dressing soon after the crop is sown. It should do no harm, al-though it is late now.

4. It is getting rather late now. The greatest effect with gypsum is noticed in

5. Land plaster is believed to be of some value for potatoes.

6. Give 40 to 60 drops of laudanum in the dam's milk every four hours. Colts with scours are hard to treat. Keep warm. Do not allow to lie down on damp, cold ground, and keep in on wet days and cold, damp nights.

7. Mangels require some sulpher, but enough is usually present in the -8. Yes.

9. Yes.



Cow-Ease

Prevents Ticks.

Cattle and Horses

ES OFF

KEEPS

and allows cows to feed in peace, making More Milk and More Money for you. A clean, harmless liquid preparation, ap-plied with a sprayer. Keeps cows in good condition, and saves five times its cost in extra milk.

TRIAL OFFER

If your dealer cannot supply you, send us his name and \$1.25, and we will deliver prepaid to your address a half-gallon can of COW-EASE and SPRAYER for applying. For West of Mis-seuri River and for Canada, above Trial Offer, \$1.50. Satisfaction or Money Back. CARPENT E R.MOB TON C

CARPENTER-MORTON CO. BOSTON, MASS.

Cattle and Sheep Labels

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THE FARMER'S ADVOCATE.

GOSSIP

PROLIFIC LAMBING.

On his farm, at Tyddyn Morgan, Abergele, North Wales, Robert Davies, head coachman to Sir Herbert Roberts, M.P. for West Denbighshire, has a ewe that has lambed prolifically during several seasons, and it would be interesting to know whether the record has not been "smashed." Mr. Davies informs a correspondent of the Farmer and Stockbreeder that the numbers dropped were as follows: 1908, three; 1909, four; 1910, seven; 1911, four; 1912, three; total, 21 in five years. Fifteen survived. The previous record is believed to be eighteen in nine years.

BUENA VISTA OXFORD DOWN SHEEP AND YORKSHIRE SWINE.

. Indications all point to an extensive and rapid revival of the sheep industry in this country. The Mar-reaching results, instructive, educational and otherwise, of the report of the investigations of the Commission appointed to make a thorough survey of the sheep industry of two continents, and the energetic and business-like manner in which the present Dominion Minister of Agriculture is taking up the subject, have surely stimulated an interest that for too long has been practically dormant. The greatly increased demand for breeding stock reported to the writer by those engaged in the breeding of pure-bred sheep during the last year, is the surest indication that the efforts of those responsible for the educational campaign on sheep-raising is bearing results. A visit a few days ago by a representative of this paper to the noted Buena Vista flock of Oxford Down sheep, the property of J. Cousins & Sons, of Harriston, Ont., found the flock in the nicest kind of condition. The Buena Vista flock of Oxfords is one of the oldest established in Ontario, and has supplied the foundation for many of our best Canadian, as well as American, breeding and show flocks, and certain it is that no flock has had more attention or care exercised in the selection of flock-headers than has this, as a perusal of the following will show. Just now at the head, and the sire of this spring's crop of lambs, is Imp. Langford Jewell 10th, bred by W. J. & P. Reading, of Langford, Eng. He is a ram of powerful form and great strength of bone. As a lamb and as a yearling he practically swept everything before him at the leading Canadian shows from Toronto to Regina, winning many championships. As a sire he is proving a veritable wonder, his lambs being by far the best lot ever bred on the farm, his clip this year weighing just nineteen pounds, which will his size d parfact lo ive some idea covering. His predecessor was the noted sweepstakes winner, Imp. Hamtonian 136, and before him was also the sweepstakes winner, Imp. Hamtonian 96, and again before him was the unbeaten Imp. Hampton Hero 4th. This is an array of flock-headers for generations that is a guarantee to intending purchasers of the quality of lambs the Messrs. Cousins are offering and booking orders for just now. An early order will ensure an early selection. The Yorkshires are typical of the perfection to which the breed has been brought on type lines, the brood sows all belong to the noted and popular Fame tribe, and the present stock boar to the great Cinderella tribe. For sale are youngsters of both sexes, sired by a son of the Messrs. Flatt's noted stock boar, Summer Hill Jerry 20th. Write the firm your wants to Harriston P. O., Ont.



1191

and numbers. you and get better rate. Circular and sample.

you and get better rate. Circular and sample. Mailed tree. F. G. JAMES, Bowmanville, Ont CHERRYBANK AYRSHIRES

We are offering 5 young bulls fit for service. from dams of 40 lbs. to 50 lbs. daily of 4% milk. Anything else in the herd priced reasonable. This herd won over \$1,200 prize money in 1911.

P. D. McArthur, North Georgetown, Que AYRSHIRES FOR SALE

Seven bulls and a few heifers of different ages, stred Seven bulls and a tew heiters of different ages, sired by Woodroffe Comrade. whose first heiter in milk, gave 11,392 lbs. milk, 480 lbs. butterfat in one yaer. Prices right. H. C. HAMILL, BOX GROVE P. O. ON T. Markham, G. T. R.; Locust Hill, C. P. R. Bell 'phone connection from Markham.

Dungannon Ayrshires and Yorkshires— For immediate sale are : Three choice young bulls and a few heiters ; also young sows of breeding age, quality and breeding combined. W. H. FURBER, Cobourg, Ont. L.-D. 'Phone.

HIGH-CLASS AYRSHIRES It you are wanting a richly-bred young bull out of a 50-lb, a day and over cow, imported or Canadian-bred dam and sire, write me. Females all ages. Prices are casy. D. A. Macfarlane, Kelse. Que

It was late, and getting later. However, that did not stop the sound

of muffled voices in the parlor. Meanwhile the gas meter worked stead

ilv. The pater endured it as long as he could and then resolved on heroic meas-

ures. 'Phyllis,'' he called from the head of

the stairs, "has the morning paper come yet ?"

"No, sir," replied the funny man on the Daily Bugle, "we are holding the form for an important decision."

And the pater went to bed wondering if they would keep house or live with him.

Had Indigestion, Sour Stomach and Severe Headaches FOR OVER A YEAR

Mr. W. Moore, 132 Lisgar St., Toronto, Ont., writes:-"After having been troubled with indigestion, sour stomach, and severe headaches for over a year, I was induced to try Milburn's Laxa-Liver Pills. One vial greatly benefitted my case, and three vials completely cured me. I can heartily recommend them to any one suffering from stomach or liver trouble."

Milburn's Laxa-Liver Pills stimulate the sluggish liver, clean the coated tongue, and remove all waste and poisonous matter from the system.

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TRADE TOPIC.

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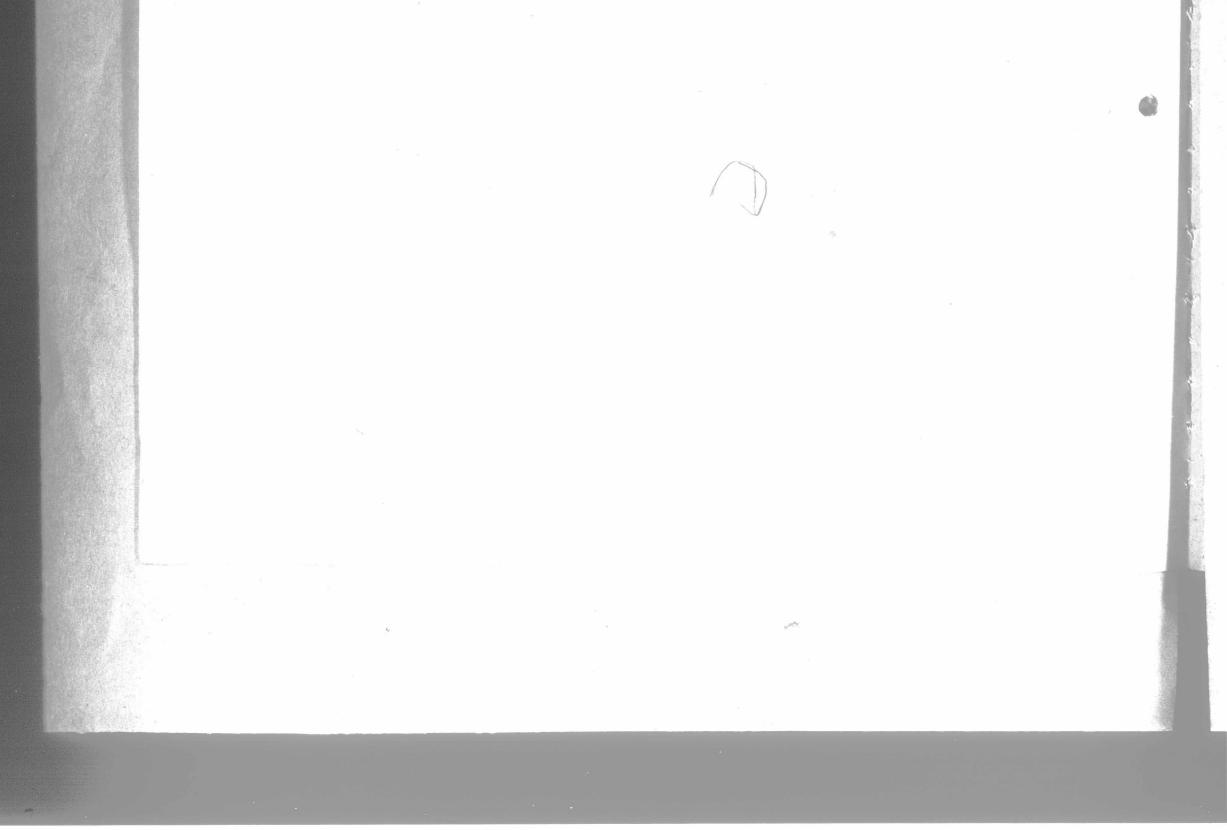
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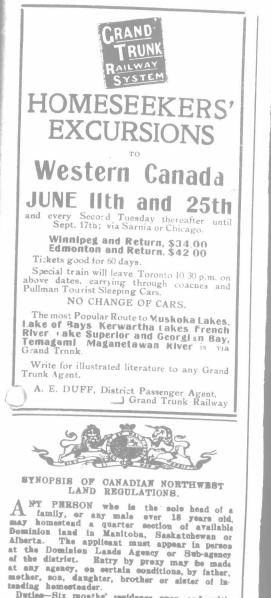
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W. W. CORY, Deputy of the Minister of the Interior N.B.--Unauthorized publication of this advertisement will not be paid for.

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"My New Metal Has Made Me a Proud Man. It Permits a 100-Year Roof at Low Cost."

"Sir, I tell you, I am a proud man. I have at last got the best roof ever made at a low price. My roof will last you for a whole century. You can put it on a wood framing. You can get it at about what you pay for wood roof. You can lay it. It will keep rain, lightning, fire, ice, snow and wind from harming your building. If you want a roof, I have the right roof."

"I Think Every Man Can See How a Roof Is the Big Point in a Barn."

"I worked 50 years to make a cleanly, strong, sure roof at a low cost. I had barns mostly in mind. When I started, bush fires were common. Cedar shingles went up like tinder from a single spark. Lightning burnt barns again and again. Leaky roofs rotted hay and produce by the ton-they let water rot the barn framework. Oshawa shingles stop this.

"Thus, I became one of the first metal shingle men in the world. I aimed to make a roof that would save twenty times its cost by saving a barn frame and foundation, as well as the stuff put into the barn, which represented thousands and thousands of dollars risked over a period of years under a poor roof."

"It Took Years for Me to Get the Design of My Metal Shingle Right."

"I thought it was easy. It was hard. It was a big contract. I didn't dream of what any roof has to stand. I thought about all a roof did was to let rain run off it, and keep in place the rest of the time. I found I had about twenty-five problems to answer at once in a single design.

"My roof had to have 'give' in it, so it would stretch in the hot sun and shrink in zero weather. It had to be ice proof, or lodged thaw-water would gouge seams apart. It had to be smooth, or lodged dirt would rust it. It had to cover its own nails, or the roof would leak. My roof had to be layable by anyone.

these things were all worked out by me in 50 years. "I started to make a

spark-proof and lightningproof roof. I ended by getting one of the best roof shingle designs ever made. My roof has more experience and skill and years behind its design than any roof you can get in metal."

"I Had to Wait Fifty Years for My Last Big Point. This Was It."

"My business was world-wide by this time. My shingles were selling in Australia, Japan, South Africa. Governments specified them for roofs.

"All this time I was getting my design right little by little. But, do what I could, I had been troubled by the metal in it. It seemed impossible to get a metal which might not rust. I had to take the best metal I could get. I needed a strong, light, absolutely non-rusting metal. At last, I found a hint in Europe.

I followed up this metal. At last I devised a non-rusting 100-year metal, which was non-corrosive. The moment I put this metal into my shingle de-sign, I got at one step a 100-year roof. This is the roof you can get from me at a low price."

"Why Do You Pay Me a Low Price? You Have My Big Sales to Help You."

"My metal shingle is not trash. You can get trashy stuff at a cheaper price. (It will cost you thousands of dollars in produce.) Yet you can buy my shingle at a low price. Its quality is kept high and its price is kept low by big, steady sales all over the world. If you do not look into my 100-year shingle, you are not treating your building right. Get a 100-year Oshawa roof for your building. It will save your building, and save you thousands of dollars in produce you worked hard to grow and harvest."

"Get My Book about This 100-Year Roof. It Has Building Hints for You FREE."

"I have helped you and all other builders with a roof I am proud of-a roof I know is right. I want to do more. I made my book 'ROOFING RIGHT' to tell about my roof. But I made it worth while for those who do not take my roof.

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Tenders for Quarantine Accommodation

Tenders are invited for the construction of Quarantine Buildings upon the Quarantine Grounds at Windsor, Ontario.

articulars may be obtained either from bector F. A. Jones, Windsor, or from the Acting Veterinary Director General, Ottawa.

Tenders must be addressed to the undersigned, forwarded by registered mail, and marked plainly on the outside covering, Tender for Windsor Quarantine Station.

Tenders must reach Ottawa not later than noon on Monday, July 8th, 1912, and must be accompanied by an accepted cheque for ten per cent. of the amount of the tender.

lowest or any tender not necessarily accepted.

Newspapers publishing this advertisement without authority will not be paid.

A. L. JARVIS, Assistant Deputy Minister, and Secretary of Agriculture. Department of Agriculture.

23836. Ottawa, 5th June, 1912.



"My work was, I had to design a shingle that couldn't be laid face-down, or sideways, or upside down, or crooked, or be marred in the laying, or be smashed on the road between my factory and the place where the roof was. I found my shingle needed ventilating places in it that would let air out but wouldn't let water in. It had to be wind proof. Yes, sir,

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"It shows the best buildings in the country-the best barn arrangements. I will send you this book for a post-card, whether you take my roof or not. I want you to take my roof, if it stands your closest examination. Send for my book to-day. 324 Limited, of Oshawa Established 1861 QUEBEC 127 Rue du Pont ST. JOHN 42-44 Prince William St. MONTREAL 321-3 Craig St. OTTAWA TORONTO 423 Sussex St 111-113 Bay St. СНАТНАМ PORT ARTHUR WINNIPEG 76 Lombard St. 200 King St. W. 45 Cumberland St. REGINA EDMONTON 563 Third St. W VANCOUVER VICTORIA 434 Kingston St. 108 Alexander St. We want agents in some sections. Write for details. Mention this paper.

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THE FARMER'S ADVOCATE. JUNE 27, 1912 1200 COCKSH Get Your Haying Right! LESS BETTER **TAYING TIME** is "touch and go" with the weather. These implements not only save the hay, but make work hours quicker in handling and curing. Drawing in is made infinitely easier. These tools are to the hayfield what the hayfork is to the barn. They can earn their cost every year. Frost & Wood Champion Loader HIS famous Champion Hay Loader is positively dependable for proper loading. You simply hitch it behind the wagon. The Champion picks up practically every wisp of clover or timothy along the windrow and loads it unfailingly. FROST & WOOD **Champion Side Rake** NOTHING is so quick and handy as this famous Frost & Wood Side Data Frost & Wood Side Rake for raking up into windrows and insuring the proper curing of the hay as well. By its action it turns on top of the windrow that portion of the hay which rested on the ground after There is a very important practical feature in the Frost cutting. By using the Side Rake all your hay is evenly & Wood Champion Hay Loader in regard to a lever on cured, and goes into the barn in perfect condition. either side of the elevator, which keeps it at even tension on both sides of the Loader. This means easy and free For bright green hay, with all the nutritive qualiaction, and no tendency to "jam" or cause delays.

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threshing the hay, you can make easy turns at ends, because of the swiveled rear wheels. Your hay fetches a higher price, because it is properly cured.

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