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\* AGRICULTURE, STOCK, DAIRY, POULTRY

Vol. XXXVI.

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WINNIPEG, MANITOBA, MAY 20, 1901.

### Teaching Stock Judging.

It will have been noticed that in the scheme for a Provincial School of Agriculture, in issue of March 5th, and in the editorial *rc* Commission on Agricultural Education, in the last issue, special attention is called to the teaching of animal husbandry. A general idea of the topics discussed under that subject has already been given, namely, the breeds of domesticated animals, including their history and characteristics, the principles of breeding, feeding and judging live stock, together with the elements of veterinary science and bacteriology. It will at once be seen that to compass such a subject is nochild's play, neither is it a subject to be taught except by specially trained men; no mere study of books can qualify one to teach such a subject,

In this connection we are reminded of some questions coming from readers of our agricultural college scheme : "How can a professor teach stock judging unless he has raised, fed and sold live stock, and thus found by practical experience why the money is in one animal and not in another?" The seemingly low estimate of a professor's knowledge implied in the question is not altogether inexcusable. When agricultural colleges were first started, stockmen educated to express themselves as teachers were not available : consequently, what little teaching was done necessitated the employment of men whose training was entirely academic - educated men, yet not versed either in the principles or practice of live-stock husbandry, nor entitled to be considered as lives-tock judges.

The advanced agricultural colleges are now turning out men trained in live-stock work, who are qualified to act as teachers of animal husbandry or to act as live-stock judges, so that the objection to the professor is no longer tenable. The assumption of all live-stock knowledge by the man who feeds and handles live stock, under the plea that he alone is *practical*, is unwarranted and unsound. Too many people seem to think that the only qualification of a practical stockman is that he has made his living by handling stock.

In the industries, the so-called practical man has no place to-day : the really practical man is the one in possession of the *principles* underlying his work: therefore, we find that the professor's claim to be considered practical is the only right one, namely, a knowledge of the principles that underlie practice! The teaching of live-stock judging involves a knowledge of the principles of draft, of milk or meat production, and of the reproductive powers, all of which are indicated to a great extent by the conformation of the animal.  $\Lambda$  description of the methods used in the teaching of live-stock judging will aid in making clear the advantages to the young farmer of such instruction. The following will illustrate the method adopted in teaching the element of draft-horse judging. The instructor gives, first of all, a clear description of a draft horse, impressing on the students the essential points, such as weight, quality of feet and limbs, and the gait, and endeavors to get into their  $minds an ideal of a model draft horse. \ The drafter used$ illustration by the instructor is then made to as .: walk straight-away, it being explained that a rolling metron means loss of draft power. The walk should be topid, so as to accomplish plenty of work, and the should be even and elastic, with no tendency tree to able, thus avoiding to some extent the wear 31) at of the feet. The gait at the trot is then 1.6.1 ed, notice being taken of the way the legs ar adled, not crossed or mixed up, the joint-11 xed and the limbs extended properly. Th 11 ill aid in showing the presence of div un ess, and as a test for the wind. The horse is the ade to stand squarely on its test whil students go over the animal, point by point. d and eyes, the neck, the should the be atm. forearm as to its position Tis a the knee as to its size, the connector c

their shape, the tendons as to their being clean and well defined, the slope of the pastern, the width of the hoof heads, size and texture of the hoofs and the appearance of the sole and frog, are all gone into and carefully summed up. The depth of the chest, indicating lung capacity, the closeness of the coupling and depth of the back ribs are noticed, the latter being evidences of the digestive and wearing powers: the length and straightness of the back, width of loin (over the kidneys), length and straightness of rump, the setting on of the tail, the shape of the hips, all aid in determining the fitness of the animal for its work according to draft standards. The muscling through the stifle and of the lower thigh, together with the rump muscles, are taken together as an indication of the propelling powers, depending on the development of the parts mentioned. The size and cleanness of the hocks, absence of spavins, etc., the cannons and their tendons, the pasterns and feet, receive similar attention to that accorded the fore limbs. The junior student marks the score card, his score showing where he considers the animal deficient. A corrected score is given the class by the instructor. thus showing them the points overlooked, too heavily scored, or underscored – the perfect score being 100 points.

The use of the score card is continued until the student is thoroughly familiar with the points and their respective score-card values. Score-card values are obtained not by any arbitrary method, but from the experiences and opinions of the best judges, and are intended to show the student the relative importance of the different points.

Score cards done with, advanced work for senior students—namely, judging by comparison begins, two or more animals being required for this phase of the work. Similar methods are followed in comparison judging, save that the students are furnished with a blank sheet of paper on which they will mark the animals placed first, second and third, each animal's weight and sex, and give the reasons for placing each animal in its position. As soon as the students have completed the work a, "quiz" is conducted rr the awards made, and if the placings are wrong, the instructor endeavors to make each tudent see why and how the awards were wrongly placed. The teaching of the method thus outlined will not of itself make a man a live-stock judge. One result will be that the farmer's son so trained will involuntarily sum up the good and bad points of animals analyze them, in fact. Constant practice in analyzing and comparing animals, both at the farm and at the agricultural show, will in time make a person a judge of live stock.

### Cleaning Crop and Fodders.

No. 526

With the increasing attention to stock-raising and dairying, and the rapid settling up of the country, the question of winter feed becomes more and more important. While straw and prairie hay, where obtainable, can be utilized to good purpose in carrying stock through the winter, everyone recognizes the value of some additional food of a more succulent nature. For this purpose there is no crop that yields more abundantly or that furnishes succulent food in as convenient and easily-handled a form as corn; but corn is looked upon as a very doubtful crop in most of the west. The Experimental Farm at Brandon has had most satisfactory results, and here and there throughout the Province individual farmers have obtained equally satisfactory returns. The seedsmen also tell us that every year there is an increased demand for seed corn.

Another advantage of growing corn is that it can be used as a cleaning crop and all the work done with horse-power. Sown late (May 20th, Mr. Bedford recommends), it gives great opportunity for killing several crops of weeds by harrowing the land at frequent intervals, just as the seeds germinate. It can be sown with a shoe drill in rows three feet apart (by stopping up the intermediate drill spouts) and cultivated with a weeder till three or four inches high, after which a horse hoe can be used till the corn shades the ground. In cultivating corn, care should be taken not to stir the soil deeper than three inches, so as not to disturb or cut the corn roots. Such cultivation given to a crop of corn not only cleans the land as well as a summer fallow and makes available additional supplies of plant-food that but for the cultivation would have remained locked up, but it firms the soil, leaving it in excellent condition for a wheat crop. With a rich, deep soil, thorough cultivation, seasonable planting and a selection of suitable varieties, there seems no reason why corn should not be a much more popular crop in Manitoba. A few years ago it was considered a doubtful crop in Minnesota and Dakota, but of late has been growing rapidly in favor, and its northern limit is continually moving northward. The vari-

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### Brandon Experimental Farm Notes.

Seeding commenced on the Experimental Farm on April 9th, but owing to the snowstorm of the 15th, no seeding was done during the third week of the month. By the 22nd, some of the higher fields were again in good condition, and the drills have been busy every day since. With the exception of the very small plots, wheat seeding was finished on April 26th.

We find that an unusual number of perennial and winter annual weeds started during the wet weather last fall, and the land requires a great deal more work than usual to prepare it for seeding. When the soil is dry and not filled with coarse rub bish, the wide-toothed lever cultivator makes a clean sweep of these weeds, but on land filled with trush or that is slightly sticky, a disk harrow gives the best satisfaction.

We have spelt sown, so that it is likely to meet with sovere frost when the plant is in its most tender stage. Later sowings a week apart will enable is to obtain some light on the best time to sow this newly inroduced grain.

Browe grass before the end of April was from this to our inches high, and the cattle were feast mg = c cl day long, while there was not a bite on the catter system. eties recommended by Mr. Bedford are : Pearce's Prolific, North Dakota Flint, and Longfellow.

Other crops can be utilized to furnish a welcome addition to the straw and hay roughage. Barley can be sown late, leaving time to clean the surface soil of many annual weeds, and, when cut green, will make excellent foddér, at the same time taking off most weeds before they mature seed. The millets may also answer a good purpose, but require more care in curing and feeding, as there is always more or less liability of getting foul weeds in the seed.

### Summer Fair Dates.

Edmonton Summer Fair.	July 1 to 3
Calgary	July 10 to 13
Yorkton	July 15
Wawanesa	July 18
Carman.,	July 18 and 19
Carberry	July 18 and 19
Virden	July 18 and 19
Portage la Prairie	July 23 to 25
Brandon	July 23 to 26
Minnedosa 👘 🗇	July 30
Winnipeg Industrial	- July 29 to Aug. 3
Oak River	Aug. 6
Neepawa	Aug. 6 and 1
Qu'Appelle	Vug. 7 and 8
Moosomin	Vitz, 9
Regima	
Harting	No. 2, 13 and 14
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### A Prolific Flock.

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W. R. Barlee, Kelowna, B. C., writes under recent date. "Can any of your subscribers beat the trong symplexic eves there had this spring buty three lambs, and only lost three these being transitions during the of trudets."

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### THE FARMER'S ADVOCATE.

The Fence Problem.

## THE FARMER'S ADVOCATE

### AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

Two DISTINCT PUBLICATIONS-EASTERN AND WESTERN,

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THE WILLIAM WELD COMPANY (LIMITED),

WINNIPEG, MANITOBA.

### Agricultural Teaching in Rural Schools.

The Legislature of Minnesota has made an appropriation of \$2,000 per year, for the next two or three years, for the encouragement of the study of agriculture in the rural schools of that State. In on methods for utilizing the appropriation Prof. Hays, of the Minnesota Agricultural College, says in part : The sum appropriated is small, but if wisely administered it will lead to much that is desirable. Our schools do much to mold our national ideals. As now organized, a powerful influence is exerted away from rural life. In our rural schools, in our elementary town schools, in our city high schools, in sectarian academies and colleges, and in state and independent universities, the text-books and teachers' ideals all lean toward city life, and toomuch toward the mere scholastic and professional rather than toward the productive industries. The life of the people and the life of the nation demand a broader scheme.that will better emphasize and encourage both lines of education and of individual effort. We want not more preachers, lawyers and doctors: we want better preachers, lawyers and doctors. More than all we need legions of farmers educated in their business, and in farm living, and educated in their outstiess, and in tarm fiving, and educated in a broad citizenship. If the faculty at University Farm can gave an influence with the children in every rural school in the State, they will be able to turn the tide more tapjuly toward a better agriculture and a richer country life. Increasing the respect and love our rural children have for the country life wa load many more of them into the selects of agriculture. When more of them into the selects of agriculture. When When hers, and our farme to generally study agriculve, all kinds of c the enterprises will ble. A large county agricue The special to heaticulture. labs and gran. strict societion te, will be di the agri -- will be g n-tronized a

Farming in the older-settled sections of the West is undergoing a transition, from the rough-and-ready way of the pioneer to the systematic and scientific methods of the advanced agriculturist. A systematic rotation of crops, including seeding down to grass, is now recognized by all thoughtful men as a present-day necessity, if the productiveness of the soil and ability to grow a No. 1 hard wheat is to be maintained. In order to properly utilize the grass land, *fencing* becomes imperative, and herein lies one of the most difficult problems, owing to the cost of fencing material.

#### THE HEDGE FAKE.

An active demand for fencing, together with the expense of good fence pickets and wire, creates the opportunity for the faker with the patent fence, the slickest of whom is the patent hedge-fence man, with his alluring colored plates of beautiful blossom covered hedge-rows, with nature's growth so marvelously trained that the mesh is close enough to intercept the gopher and, at the same time, strong enough to be "bull-proof." These wonderful combinations of hedge plants (at so much a thousand), that are sure to grow, and a few strands of barb wire (at wholesale), are bound sooner or later to be offered to the Manitoba farmer, and, like the farmers in every other civilized country, experience bought and paid for is likely to be the only thing that will convince them of the uselessness of the hedge fence. Doubtless, too, local companies will, in due time, be organized to sell and plant hedges, and farmers will be offered special inducements to invest some of their surplus cash in the shares of these companies, whose only hope of *success* is in the gullibility of the public. Those who remember the osage-orange and locust hedge fakes that were successfully worked some years ago-and many may have cause to remember-will not be so easily caught in the meshes of the patent-hedge man.

#### HEDGES UNSUITABLE.

Hedge fences are totally unsuited to the conditions of prairie farming, when one considers what the growing of a hedge means. For the growing of any kind of trees or shrubs in this country, culturation is absolutely essential. Think of the labor necessary to thoroughly cultivate a strip of 3 or 4 feet along both sides of a hedge a mile or two in length, and to keep down all weeds and grass (including twitch-grass), for several years: then, to insure a thick undergrowth in the hedge, it must needs be kept closely and frequently trimmed for all time to come. As a reward for all the labor, the hedge, even if it has grown fairly well, is at best a poor substitute for a wire fence. It collects snow-drifts, which break down the hedge and keep the land adjoining wet until late in spring, and in the event of soil drifting from the adjoining fields, the results to the hedge would be disastrous. Anvone who desires a nice bit of hedge along the garden border will be well repaid for the labor necessary to obtain it and keep it in shape, but few who stop to consider are likely to undertake to hedge fence even the boundary line of a quarter-section farm.

### Extension of Canadian Pure-bred Stock Trade.

The recent purchase in Canada, by Mr. Alex. Bruce, in conjunction with Mr. Wm. Nelson, of Liverpool, England, of a number of Shorthorn bulls for shipment to the Argentine Republic, in South America, elsewhere referred to in detail in this issue of the ADVOCATE, while not the pioneer exportation of nure-bred stock to that-a trial consignment or two having been made a few years ago by Mr. W. C. Edwards, of Russell County, Ontario-indicates the possibility of a new and particularly desirable market for Canadian pure-bred stock, should the venture prove a financial success, as it is earnestly hoped it may. The present relations between Great Britain and the Argentine in regard to the importation and exportation of live stock, owing to recent outbreaks of foot-and-mouth disease, are such as to prohibit, for the time being, trade in that line, and the South American cattle-breeders in the meantime, in looking around for available supplies, have naturally turned their attention to Canada and the United States, where, for nearly a century, such stock has been propagated from importations from the parent land and bred with a gratifying degree of success, adding immensely to the value of the farm stock-and, consequently, to the wealth of both countries on this side of the sea. It is well known that Argentine breeders are discriminating buyers, that the best is none too good for them, and that they are not open to the imputation of haggling over the price if the quality of the animals is good enough to suit them. A knowledge of the discretion used by our new customers in buying should prove an incentive to Canadian breeders to produce superior stock in large numbers, giving the necessary care and treatment to ensure their best development, in order that we may secure and hold the trade that has been opened.

FOUNDED 1806

Stock Breeders' Associations is properly credited with much influence in bringing about this increased trade by their successful efforts to secure from the railway companies favorable freight rates for the shipment of registered pedigreed stock, making it possible and practicable to spread the influence good blood over wide areas of the Dominio policy which we are confident will prove profinable in the near future to the railway companies as well as to the farmers. The opening up and settleteent of new sections of the country results in the production of commodities the transportation of which brings revenue to the roads, and so the improvement of the breeding and quality of live stock brings trade and commerce in the shipment, for home and foreign consumption, of a better class of stock and of its products in the form of beef, bacon, mutton, wool, milk, butter, cheese, poultry, etc , and the benefit to producers and carriers is mutual

The United States, our natural outside market for this class of stock, owing to its nearness and the adaptability of large areas of its territory for stockraising, will doubtless continue to take a large share of our surplus, as it has done in the past, and all that is needed to give the fullest scope to this great industry is the removal of the unnecessary and galling restrictions which, under the guise of protection, and at the whim of interested officialism, have been fastened upon it, vexatiously hampering a trade which, but for this, would be one of our most prosperous and satisfactory enterprises.

### A Beef Ring for 20 Members.

Enclosed please find chart which I use for cutting up beef for a ring of 20 members. I have used it for three years, and it has given the best satisfaction of any ring in this locality. Several applicants have asked me to give my chart, and to explain how to run it. I think it will be readily understood. It is run just the same as the one for 16 members. Our rules are just the same as for a ring of 16 members. The only difference is, we have the members furnish a basket or cotton bag to put the beef in when cut up.

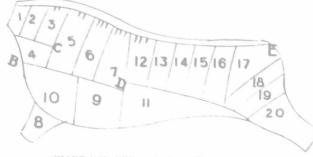


CHART FOR BEEF RING OF 20 MEMBERS.

Then we hang it up, with their names on it. You will see by my chart that the beef will have to be quartered a little differently from yours for cutting the beef up in 10 pieces. To give each party a boil and a roast, it must be divided after the beef is cut down in halves. You must cut it across between Nos. 7 and 12, leaving four ribs on the hind quarter. After laying the front quarter on the table for cutting up, you will cut off front shank, No. 8; then cut from line B, making two pieces (Nos. 10 and 9); then take off neck, No. 1; then take roast No. 7 (3 ribs in it); roast No. 6 (2 ribs); roast No. 5 (2 ribs); then cut across to line C, taking piece No, 4 (boiling piece) : then No. 3 (2 ribs in it), leaving piece No. 2 After cutting up the two fore quarters, you will let down the hind quarter on the table 201

The increasing interprovincial trade resulting from the rapid development of the West, the general prosperity prevailing in the country, and the demand for pure-bred stock from the Maritime Provinces and also from the sister Provinces of British Columbia and the Northwest, is gratifying ad encouraging to breeders in all sections of the Dominion.

The organization of the Dominion and Provincial

from line D, leaving flank, No. 11 : then cut roast No. 12 (3 ribs in it) ; then follow along 13, 14, 15, 16; then cut across line E (rump roast), No. 17 ; then cut off Nos. 48 and 19, leaving hind shank, No. 20,

This is a table to put the pieces for each one :

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The weight of the beef is supposed to be not less than 400 lbs., and not to exceed 500 lbs., all to be cut up and divided into 20 shares. I think the beef should not be less than 450 lbs. It cuts up in much nicer pieces. JOHN I. BALSDON,

The recent United States census shows that the total number of farms in the Republic has increased during the past ten years from 4,500,000 to 5,700,000, an increase of 20% per cent, more than keeping pace with the growth of population. Hence the big farms are not swallowing up all the small ones. The number of farms worked by their owners is 500,000 more than ten years ago, or an increase of 18 per cent. At the same time, tenant farmers increased about 40 per cent. The greatest increase in tenant farmers has been in the Eastern and middle Western States, where owners have retired to cities and towns, leasing their farms to others. Very secently a popular movement has set in whereby men of means purchase and run fine farms on which they reside with their families throughout the summer season instead of going to high-priceand often stuffy fashonable resorts. Altogethe: from these points of view the outlook for American agriculture is encouraging.

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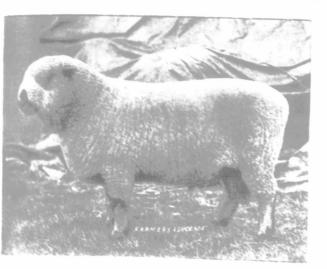
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No. 2

### THE FARMER'S ADVOCATE

### How to Grow Sugar Beets.

Whether through design or what is called good luck, it was certainly a fortunate circumstance whereby Dr. A. E. Shuttleworth, Chemist of the Ontario Agricultural College, when taking his supplementary course in agricultural science in Germany a couple of years since, found himself in the midst of one of the areas of that country where sugar-beet culture has been reduced to a science and is prosecuted with a degree of success attracting the attention of the world. Devoting himself to a study of the subject, both from the practical and the scientific point of view, he returned to



### SHROPSHIRE SHEARLING RAM (No. 1494), First prize, Royal Show, Maidstone, 1899,

OWNED BY MR. A.E. MANSELL, HARRINGTON, HALL, SHIPNAL, ENG

Canada full of the theme and ready for the sugar-beet propaganda now under way. The campaign of investigation and education begun last year with most encouraging results, under his direction, in three districts, is being continued this season in some fifteen different areas of the Province of Ontario. In each of these some twenty-five farmers with soil and other conditions suitable are putting in a quarter of an acre each according to approved methods and under skilled direction, and which will likewise be cultivated and harvested under supervision and analyses made of representative samples by Dr. Shuttleworth, so that by next fall not only will a great deal of valuable experience be gained by the growers, but the general data as to sugar content of beets, purity and yield obtained will be of an extensive and thoroughly trustworthy character. Preliminary to the inception of these trials, Dr. Shuttleworth has gone from point to point addressing gatherings of farmers and others interested. At the London (Ont.) meeting he indicated the scope for the industry by stating that it would require the output of thirty large factories, valued at about half a million dollars each, to furnish sugar for Ontario use alone. With soil conditions and climate such as exist, and proper cultivation, there was no doubt about successful sugar-beet growing, which would not only prove an extremely profitable crop for the grower, but tend to improve the fertility of the soil, owing to the fact that sugar extracted little from the soil, and the tops, which were good food for milk, and the pulp for fattening stock, etc., were restored. Properly speaking, the manure should be applied to a previous crop and the land deeply fall plowed, so as to increase its moisture-holding power. A fine, mellow seed bed is then secured by thorough spring cultivation, not more than three inches deep. The seed should be sown from April 20th to May 10th, on the flat, one inch deep, with an ordinary seed drill, in rows, say twenty one inches apart, using sixteen pounds of seed to the acre. A drill set to sow one and fiveeighths bushels peas to the acre would put in beet seed about right, with only every third spout running. To keep down weeds and break the crust, making a mulch and preventing evaporation of moisture, he recommended going up and down the drills with one of the "weeders." Thin after the third leaf shows, first "bunching" them with a hoe and then by hand, removing all but one healthy plant avery savan inches. South or cultivate plant every seven inches. Scuffle or cultivate frequently, not more than three inches deep, using an implement with the harrow form of teeth, so that the ground will be kept flat, being careful not to mould up. Cultivate twice a week, and after every rain. By the middle of July the luxuriant tops, through which, by the aid of sunshine, the plant collects its sugar from the air, should completely cover the ground, and the cultivation is done. As the season advances, the leaves become a rich yellow, and droop, the under leaves dying. The beet is then ready to harvest, at an average weight of from one-half to two pounds each.

### The Government Seed Shop.

The quotation given below, from the Country Gentleman, of Albany, N. Y., is an example of how a project, originally apparently very innocent and simple, has been prostituted in the hands of unscrupulous politicians. In the first place, the U.S. seed distribution was to introduce entirely new varieties which might prove advantageous to agriculture. It has now degenerated into a wholesale system whereby congressmen are enabled to parcel out from Washington vast quantities of free seeds to their favorites and "heelers," giving them at the public expense what should be purchased out of their own pockets. The people are thus corrupted and pauperized, and from these gratuities little, if any, real improvement can be expected. That the abuse is growing may be seen from the fact that while last year the seed contract was \$78,000, this year it is \$180,000. Our contemporary says :

"Judging by a number of packages of Agricultural Department seeds that have been sent to this office, the wrong and outrage of the free distribution has been made ten times worse this year than ever before. The pretence of a purpose to introduce new varieties has long been abandoned ; but this year there is no pretence at issuing even valuable varieties, and, in fact, the names of the varieties do not appear! Just think of that! The packets are marked, 'Celery, a Selected Variety'; 'Cucumber, a Selected Variety': 'Watermelon, a Selected Variety,' and so on and so forth, ad nauseam. We should think the contractors could easily supply the stuff, under these circumstances, for half the contract price of \$78,000-even supposing that the seeds are fresh. It would seem that some body in the department must be either grossly incompetent or grossly dishonest. The thing has risen to the proportions of a national disgrace. What is Mr. Wilson thinking about?"

### Jumping Hard on the Thoroughbred Advocates.

### To the Editor FARMER'S ADVOCATE

SIR,-An article recently written by Mr. O. A. Coates seems to me to be a very valuable contribution to the horse-talk of this country. His defence of a large variety of the Standard bred as a general purpose horse agrees with a great deal of evidence I gathered by systematic reading of American agricultural papers while attending our provincial agricultural school some years ago. His opinion of the Thoroughbred also agrees with my own. I once owned the stoutest and fleetest Thoroughbred that has ever landed in Nova Scotia, or is likely ever again to come this way. I knew thoroughly all bout his descendants and the descendants of another famous Thoroughbred that left offspring here. They gave anything but general satisfaction ; and now when I hear or read about men in prominent places advocating the improvement of our horses by crossing with

h e Thoroughbred, feel that "jumping hard on them" would be rendering good service to our country. When one reflects on how very different the purpose for which the Thoroughbred has always been bred is from the poses for which we in this country must breed horses, it seems absurd that he should so often be advocated as an "improver." The improvement he can effect needs to be corrected and improved again and again for very many generations before it is all right for the uses to which we put horses. Is not this about exactly the thing that has already been done in the Standardbred, and, better still, 1 believe in the French Coach horse? These two breeds are evolved out of the original Thoroughbred, as we can see tracing back their by pedigrees. Here we have the great fleetness, endurance and beauty

suitableness for our Canadian conditions discussed by some one who has had much experience with them. I am also at a loss to account for why there are so few Percherons in Canada and so many in the United States. Where considerable driving over hilly and stony roads, as in Cape Breton, is required of horses, in addition to heavy farm work, should not the Percheron be more suitable than the Clydesdale or Shire horse? J. D. MCKINNON. Cape Breton.

### The Harrington Hall Flock of Shropshires.

Owing to the exceptional importance of the dispersal sale of Mr. A. E. Mansell's flock of Shropshire sheep at Harrington Hall, Shipnal, Shropshire, England, which is announced in our advertisement columns to take place upon August 20th next, we have departed from our usual practice and obtained from our English representative, who will attend the sale and execute commissions, or in any way further the interests of our readers, a brief account of the world-renowned flock.

Its foundation goes back the long period of fiftyseven years, during the whole of which time it has been managed by two of the admittedly best breeders and judges of the breed, the late Mr. T. Mansell, and his son, the present owner, Mr. A. E. Mansell. The flock is one of those few that is indeed and in fact a pedigree flock, for full individual pedigrees of each and every sheep, both on its sire's and dam's side, will be furnished. Away back to previous to 1877 has this record been carefully kept, and there can be no question but that it is mainly owing to this that the unrivalled and undisputed success that has been achieved by its produce in Great Britain, Canada, the United States and Australia is due.

Space will not, of course, permit of full extended pedigrees being given, but as typical of the rest we have included in our notice, as a sample, the ex-tended pedigree of Royal Blood, first-prize ram at the Royal Show, York, in 1900, who was sold for export to Australia last August for \$1,150. Similar pedigrees are obtainable, so far as they go, for each and every one of the sheep included in the sale, which compose a flock which for its purity of breeding, true type and character, good wool and skins and uniformity, is practically unmatchable. The actual numbers that will figure in the catalogue are 70 yearling and two-shear rams, 260 young stock ewes, 120 yearling ewes, 120 ram lambs, and 130 ewe lambs. Therefore, any buyer who purchases at this sale will be able to secure in all cases a full extended pedigree that will be of considerable value to him, and in certain cases, where the older lines of blood are included, pedigrees that can hardly be equaled from any other flock.

Mere tabulation of the show-yard results are of little value unless the full report of each of these contests is known, for it is possible for any breeder who may not be successful at the larger and more important shows to exceed in the aggregate the number of prizes won thereat by success at smaller shows. Thus it is hardly advisable to go into any lengthy detail as to what this flock has won, more than to mention that at the four or five leading



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The Proper Way to Roll Breaking.

In an article on soil cultivation, in our issue of March 20, by Mr. W. J. Higgins, a mistake is made in recommending the rolling of breaking crosswise with the plowing. What Mr. Higgins really meant to say was that the rolling should be done the opposite way from the breaking. For instance, if one gee-d round a land in breaking, he should haw around in rolling. This is one of those little things that may seem unimportant to many, but that, nevertheless, makes a heap of difference in the quality of the work done and the returns in dollars and cents. SHROPSHIRE RAM LAMBS. First-prize pen, Royal Show, York, 1900, PROPERTY OF MR. A. E. MANSELL, MARRINGTON HALL, SHIPNAL,

of the Thoroughbred nearly entirely retained, while an incomparably better disposition and a more useful action—good trot and walk—are added. The lack of a uniform good size as a breed is the great drawback of the Standard-bred as a producer of general purpose horses. Is not this about entirely overcome in the French Coach horse? I have read a good deal about how these horses are bred, and heard much favorable talk about them from parties who have had experience with them in the United States. Now I would be very well pleased to hear their

English shows it has, during the last ten or a dozen years, won upwards of 150 prizes in the strongest competition, besides champion awards. It and its produce has won the Mansell Memorial Challenge Cup eight times out of the ten times it has been competed for, Mr. Mansell himself winning it four times, a feat no other breeder has yet accomplished. Twice it has been won by a ram bred by Mr. Mansell, twice by a son of a Mansell ram. This is a record which shows how good is the produce of the flock, for this particular prize, more than any other, is entitled to the honored name of the " Blue Ribbon of the Shropshire Breed.

Now, as to sale records, these have to do with the sheep which have gone, and gone, we may remark, with such good effect to flocks both at home and elsewhere, that year by year the original purchasers have come again to get some more of that blood which once tried is ever after wanted. Therefore, a mere recapitulation of such records would be of but little value: they might or might not be a guide as to the values the present and final sale will realize. This time will prove, and we venture to hope that when the final sale record is made up, it will be one that will, so far as money value can, fully recompense the owner for his great work, and, at the same time, establish a record for the breed that will be one for future generations to attempt to exceed. In fact, a record that will enable that eminent and world-renowned firm of auctioneers. Messrs. Mansell & Co., of Shrewsbury, who will forward catalogues and full information, to again publish, as they did after the 185 sale; when 45 yearling rams made the then unequaled average of £41 16s, 6d., another phamplet entitled "Another Red-letter Day in Shropshire Sheep Annals."

**NOTE.**—The sample pedigree referred to as being sent with the above notes includes reference to the records of 14 generations of high-class sires and dams, and would cover a whole page itself. which is greater space than we can afford to give it. -ED.]

#### **Contagious Abortion in Cows.**

The prevalence of abortion among cows is, we believe, on the increase in this country, and it is one of the most serious difficulties the stock-breeder and dairyman has to contend with. Prevention is so much better and cheaper than cure, that the utmost vigilance should be used to avoid the trouble. Much has been written upon this subject, and not a few cattlemen have confidence in the carbolic-acid treatment outlined by Mr. George Rice, in the FARMER's ADVOCATE of January 21st in the present year, for prevention, which treatment consists in giving 20 to 30 drop doses of carbolic acid (according to size of cow) daily in a pint of water to cows exposed to the contagion, or of which there is reason for suspecting that they are predisposed to abortion.

Prof. Norgaard, of the U.S. Bureau of Animal Huşbandry, has published an article on this subject, that so well commends itself that we herewith reproduce it, with the hope that it may prove helpful to some of our readers who may be troubled with this scourge, as it seems to us that the hints might well be adopted, in part, at least, if not in full

"Infectious abortion is a disease which is caused by the introduction into the vagina of a specific micro-organism which causes a chronic catarrh of the muscous membrane of the uterus and results in the expulsion of the fortus before the normal time of parturition. It has recently been asserted by some authorities that the infection is almost exclusively introduced by the bull, and that a thorough disinfection of the prepuce and penis before service will prevent the cow from becoming infected. It is recommended to inject one quart of lukewarm solution of lysol, of a strength of one and one-half per cent., into the prepuce, immediately before the bull serves the cow. The cluster of hair at the opening of the prepuce should be shorn quite short, and the region thoroughly cleansed with the same solution. The injection is made by means of a common fountain syringe with a long nozzle. The latter is inserted into the prepuce, which is folded closely around it in order to prevent the fluid from running out again immediately. By elevating the reservoir, the solution may be forced to the upper end of the prepuce and the entire penis disinfected.

'It is also necessary to keep the stable as clean as possible by disinfecting the gutter regularly with one per cent. solution of sulphuric acid, and when a cow shows signs that she is about to abort, she should be immediately removed to another stable and her foctus and afterbirth should be burned. When a cow has aborted, it is necessary that at least two or three months be allowed to pass before it is taken to the bull again. During the first part of this period, the cow should be kept in a separate stable and treated with injections into the vagina of one per cent. lysol or creolin solution. This is done by the use of a piece of a common gray gas or rubber hose, about 4 feet long, to the end of which is attached a common one-quart funnel. The hose and the funnel should be thoroughly cleansed with boiling water before they are used, and the region around the vulva, including the root of the tail, should be washed with soap and water and irrigated with the lysol solution. The operator's hands and arms should be similarly treated. If the afterbirth has been retained, it should be removed at once and the uterus washed out, first with warm water, and then with about a gallon of the disinfectant. These injections should be continued once a day until the cow is thoroughly clean and all secretion has stopped. If these precautions are neglected and the ball is allowed to serve the cow as soon as it comes in heat again after aborting, the uterus will not have recovered, and the focus will be expelled when quite small, and in due time the cow come in heat again. These very early abortions are, as a rule, not noticed, but as the system of the cow adapts itself to the infection, the period of the forms action becomes longer and longer, until finally new is immune of the early the further the full gestation. It evenus for the

the bull which during that time serves the cow will carry the infection to all other cows he serves if the above precautions are not taken to prevent it. For this reason it is not advisable to sell or otherwise dispose of the cows that abort and to replace them with fresh ones, as such are very likely to become infected. Only those which, after treatment, prove to be permanently sterile should be prepared for the butcher."

### Selecting Stud Stock.

Pessimists are already "getting busy" uncovering the mould of the past to find a reason for their fears that, in view of the present activity of the horse market, horse-breeders will overdo the thing in the next few years. Looking at it one way, these essimistic fellows have a little ground for their fears too, if past breeding by horsemen is taken as a precedent. If any old kind of horse is used as sire or dam, it is quite likely that the market will be glutted if breeding is going on as extensively as reported, for plenty of scrubs are coming to market even now when horses are reported scarce. Keep your good mares on the farm; breed for quality, and you need have no fears that your horses will not find a good market. There is always a place for the good ones.—Chicago Live Stock World.

It is true that a horse of only moderate quality, if sound, will sell for a fair price if he suits a certain definte purpose, but it is only the superior few that return a satisfactory profit for the raising. There will probably be a greater percentage of mares in the country bred this season than for a long time, and those that are sound and properly mated will, barring accidents, produce a profitable progeny. That was good advice to keep the good mares on the farm. While quality in the sire and dam are equally important in producing offspring, we can only breed such mares as we possess, while we have more latitude in selecting the sire of 1902 foals. If a farmer wishes to breed horses and has no mares suitable, or wishes to breed more than he possesses, he then has to go out and purchase, which affords him an opportunity of selecting the dams of his foals, as well as the sires, and to select these wisely is a matter that one cannot afford to pass over indifferently. As a rule a man possesses a fancy for some particular class of horse, and it is with these he will best succeed, because he will incline to judge them more correctly and give them the detailed attention they require for best results. Unless one possesses that liking for horses that stamps him a horseman, he had better leave horse-breeding to others, as he is more likely to go wrong than right. It has often occurred that the old mare, lame or in other ways defective for work, is chosen to breed. because she has nothing else to do, or can do little else: but while this may prove satisfactory, there is a strong probability that some of her defects will show up in her offspring. The farmer who breeds only this sort is horse breeder in a very slight degree. only to the extent that he can hardly help himself, although such old mares, when free of hereditary defects, such as ringbone, spavin, roaring, and the like, sometimes do produce well when they themselves are well bred and wisely mated.

Since the horse trade has adjusted itself into classes, the aim in breeding a mare should be to adhere to her particular class as far as possible. To this end, the crossing of breeds should be avoided. While we may expect a handsome blocky mare of the light draft type, bred to a good-looking light stallion, to produce a foal midway between them in form and weight, in many cases such crossing will producing e disappointing in quite different from either parent, probably leggy and altogether lacking in quality, and it is quality that counts in selling a horse. A mare that inclines to any particular desirable type, whether it be draft, roadster, saddle or carriage, should be bred to a stallion of the same breed as her sire, and it is not enough that he be of that breed, but also that he is sound and good-natured, a good individual, and descended from a superior parentage on either side of his lineage. Nor is it enough that the particular breed we have in hand should be adhered to in choosing the services of a stallion. There is often a wide difference in form and characteristics between the first and second prize horses in big classes of good ones at our leading exhibitions Take, for example, the Clydesdale class at the recent Toronto Horse Show: the first-prize horse differed as much from the second-prize horse as though they belonged to different breeds, although each was an excellent individual worth a big price. On some classes of mares the first-prize horse would be more suitable, and vice versa. The breeder who is to select well, must have in his mind, and well defined, the form or type of an animal he desires to breed. This image, though only existing in the mind, should be as clearly defined as though it were a living thing. He is a victim for the sharp groom or agent unless thus equipped. Without being able to select with reference to a true type, he may undo in one generation what has been effected in two or three others, thus going back wards in having his mare produce a foal of less excellence than herself. Disposition and action are as important as form, and these have their indications that need not be mistaken by a horseman. It is of utmost importance to select a good walker, as a slowFOUNDESS 1805

walking work horse is a time-waster, and walking roadster is exasperating to its driver

With all the individual excellencies that be desired, a horse should not be used as a less he is "well come." And that he have less pedigree is not so important as that it p hof excellence, especially in the near ancestry. cross two or three generations ago is as likely to nad crop up as any other, and it is no bad rule to be guided as far as possible by the progeny, if we can learn of these, of the sire we propose to use, Selection of sires must be continuous from generation to generation, for the time will never come when all the animals brought into existence will be equal to their parents. Some will excel them and some will not reach their standard. Great and provers of live stock are indeed few, and what we now of their methods leads us to believe that the most studious care was always given to the matings, endeavoring to perpetuate the good and overcome the undesirable

### Raising and Feeding Steers for Profit. To the Editor FARMER'S ADVOCATE:

SIR, -- There appears to be a general opinion among farmers this year, that any person who is lucky enough to own a number of steers cannot fail to make a profit out of his stock, either for stockers or by feeding them for the export market. No doubt there is a greater opportunity to make a profit on stockers this season than for a number of years. The prospects for those who stall-feed cattle are very encouraging for the coming winter. But there are a few matters, to attend to in the breeding and feeding of steers. The dairy industry having proved so profitable throughout the country has induced many farmers to breed and feed their stock in such a way as to develop milking qualities of the herd. It has been found that beef breeds are usually unsuitable for their business, and cows of various dairy breeds and crosses have been substituted to a great extent. Our only remark is, " Proceed with the good work." But while doing so, remember that steers of dairy breeds are just as unsuitable for beef. By this, we mean grades of the dairy breeds, for we do not suppose there are many pure-breds raised for this purpose. Steer calves of this class may be kept as slick and as good-looking as those of beef breeds for the first three months; afterwards they begin to show the breeding, and if beef is the object, they are kept at an expense to the owner, as they make very good veal, and that is a suitable time to dispose of them. Then arises the question, how can farmers raise young stock to consume the coarse feed of the farm. In the years past, it has been a custom with a number of farmers who raised grade stock of beef breeds, to destroy when young, or send to the block at six or eight weeks old, their surplus of calves, especially if engaged in mixed farming or dairying. If this system is continued, which is not probable, owing to the shortage of stockers at present, it will be an opportunity for those who handle the dairy breeds to procure calves to raise for beef. Otherwise it will be advisable to purchase grades of beef breeds to consume the surplus food and convert it into beef. Although they are rather scarce just now, till there are numbers of lean cattle sent to the shambles each week. many of which might be fed for beef and thus avoid glutting the markets with inferior stock. Many of them are grades of various dairy breeds; these are what dealers usually class as scrubs," It is almost certain they are not a profit to any person, from the man who raises them, until they are served as second class fare on the tables of the inhabitants of towns and cities. It is estimated that two-thirds of a full ration is required for the food of support. This being the case, it shows how unprofitable it is to sell lean stock, as they have received too little beyond the food of support, from which the profit, if any, is derived. In order to leave a fair margin for profit, they should realize the same price per pound as exporters. But only in times of scarcity do they command anything like beef price, except for first-class animals. Under proper management, the practice of purchasing stockers is a profitable business. Of course, the man who raises stockers for others to make profit on seldom succeeds in life he may rest with an easy conscience that he is only to be remembered in the next generation as a philanthropist. It is an undisputed fact among the best stockraisers, that the system of early maturity is the way by which success may be attained. The stock needs to be kept in a healthy condition, and kept growing steadily. It is not advisable to feed strong grain until cattle are being fed for export. The greatest importance should be attached to feeding a ration suitable to secure rapid growth. The bulky part may consist of oat straw, corn fodder and chaff, with enough roots to aid the animals' appetite and the digestion of the food. Hay may be fed to advantage in place of oat straw for one or more daily meals, especially in case of yearlings. In fitting for beef, much of the same feed may be used, in addition to ground oats and peas. The grain should be fed sparingly at first, increasing to full amount. This is the critical period. The greatest gain in flesh and weight is now required at the least possible cost. There is a difference in the constitutions of individual animals, and one pound too much grain may put one off its feed, and if this is done, it will not thrive so well afterwards. HENRY SMYTH.

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#### MAY 20, 1901

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### Military Tournament and Horse Show. and schooled and shown to near the limit of their (Continued from page 181.)

#### CLYDESDALE MARKS.

Out of five entries, there were four present: Mr.O. Sorby's Sonsie Lass and Diana MacKay, and A. G. Gormley's Kitty Tyrall and Rose of Burndennet. The Sorby pair, bred by N. P. Clark, Minn., are of the best Scotch pattern, not quite as heavy as their rivals, but better at the pasterns. Sonsie Lass, forward in foal, won 1st, her mate second, and Kitty Tyrall 3rd. The Gormley mares, by Lord Lieutenant, are a massive pair, weighing about a ton each, and are well formed. In harness, the same positions were retained ; Geo. Moore, Waterloo, coming 3rd with a pair of powerful geldings, and had his nigh horse been well mated, he would probably have stood higher.

#### SHIRES.

A much larger class of this breed was expected than appeared, as three firms making entries evidently changed their minds about showing. This was disappointing, as some of the best stallions that have left England had their names in the catalogue. Bawden & McDonell, John and J. M. Gardhouse were forward with good representatives of the breed. Belshazzar, the low set, deep, broad, mature horse, with excellent quality and quantity of bone, that was imported from England in the fall of 1899 by Bawden & McDonell, Exeter, Ont., and shown by them several times since without a defeat, had for rival Wilcot Thumper, owned by the same firm, a massive four-year-old, of the useful type. John Gardhouse showed a colt foaled in 1840. He is by Pride of Hatfield, to whom he bears

a close resemblance, being rangy, smooth, brown in color, and furnished with a set of good legs. John Gardhouse also showed a pair of mares, four and five years old. These, too, were by Pride of Hatfeld but they had mark by Hatfield, but they had worked hard and therefore were not fitted. A mare, Victoria, by Darnley, foaled in 1890, and bred and owned by J. M. Gardhouse, was the first choice of the three. She is black in color, well grown, round ribbed, and a good filly generally.

#### HACKNEYS.

The mature stallion class in this breed dwindled to a single horse this year, but had there been a larger entry the same member of the breed would have likely worn away the red ribbon. Robert Beith's Squire Rickell was the representative, in his usual first-rate This son of Cadet retains his form. remarkable quality and dash of action in a high degree, although he is taxed with considerable stud duties. He had keen competition for sweepstake honors, both for the English medal and for the Canadian Hackney Society's prize, but he defeated them all, and got no more than he deserved. A newcomer made his appearance in three-year-olds, a recentlyimported son of Lambton Connaught. brought out by Bawden & McDonell. He is a chestnut, known as Connaught Heir, and was bred by the Earl of Durham. His rivals were Mr. Crossley's sensational Rosseau Royal Oak, bred from Royal Standard and Lady Cocking, and Mr. Sorby's Guelph Performer, from Square Shot and Miss Baker. They were indeed a strong trio in quality and action, and the judges. Messrs. R. Gibson and Alex. Galbraith, spent considerable time in deciding as to their relative posi-

### THE FARMER'S ADVOCALE

capacity. South Africa, the daughter of Jubilee Chief, that was so successfully shown last year by Messrs, Crow & Murray, was a prominent figure. She is now owned by Mr. Geo, H. Gooderham, who has kept her up to form and won with her on this occasion. A handsome gray mare, sired by The Shah, and owned by S. B. Fuller, was next in place, and she was followed by Doan Bros.' Defender, by Lightning, and H. N. Crossley's Rosseau Jewel, by Rosseau Performer.

### THOROUGHBREDS.

More interest than usual centered around this breed, of which there were three classes this year. They were judged by John Hanning, of New York, and Chas. McEachren, V. S., Montreal. There were four competitors in the open class, and all useful horses, from the saddle point of view. Dr. Andrew Smith, Toronto, admires a Thoroughbred, and usually has a good one. This year he showed the winner, Kapanga, by Spendthrift, a breedy chestnut of considerable substance. His conformation is well represented in his illustration in last issue. While he is of the race-horse type and highly thought of from that standpoint, he fills the bill well to sire remounts, as he stood for a long time a tie with the winner for that purpose in competition for King Edward VII.'s prize. William Hendrie, Hamilton, showed Gold Car, by Goldfinch, a right good stamp, 16.1 hands and not leggy. He won 2nd, followed by a get of Uncle Jesse, owned by Edmund Bristol, Toronto. He is called Knight of Sherwood, stands 16 hands, and is full of quality.



mixed pedigree, from a trotting sire, but a good individual, of dashing action, shown by Crow & Murray, Toronto, won 1st, defeating McCartney's German Coach, Graf Bremer, that has been the victor for several years. John Rogers, of Thornhill, won 3rd on General Watson, by Sim Watson. He is a big horse, 16.1 hands, of good parts, but he could not move with his competitors. J. T. Reid, Derry West, and Albert Hewson, Grahamsville, each showed a bay 3-year-old, and both called Lord Roberts. Reid won the award, and stood reserve to Performer, the aged victor, for gold medal for best stallion any age.

### STANDARD-BRED ROADSTERS.

There were five mature and one 3-year-old stallion shown. In the former class there was a great variety of form and action. Judging them on the line for conformation and action, the very handsome and nice-moving Pavonia, by Jersey Wilkes, ex-hibited by Heslop & Williamson, was the favorite outside the ring. He stands 15.3 hands, is round as an apple, carries a good depth of body, and is a typical roadster sire. His strongest rivals were Dalton McCarthy, by Bryson, and owned by Mc-Laren Bros., Winnipeg; and Altoneer, by Sphinx, owned by Fisher & Button, Ringwood. Neither of hese was in high flesh, but in good stud form. Dalton McCarthy was in racing form, and is fitting for a number of important stakes the coming season. As a race horse he was considered the choice, and consequently won 1st award, the well-known Altoneer 2nd. and Pavonia 3rd. Jim Bryson, by Bryson, was the colt shown. He is a good mover and quite like his paternal brother, Dalton McCarthy, to whom he came 2nd in the sweepstakes

### HORSES IN HARNESS.

contest.

Horses in heavy leather are shown singly in three sizes, viz., over 14.1 hands and not exceeding 15.1, over 15.1 and not exceeding 15.3, and those exceeding 15.3 hands high. Pairs are classed 15.2 hands and under, and over 15.2 hands. There is also a class for tandems and four-inhands. In all of these competitions, the Hackney form and action predominated, and the more of it the horses possessed. other things being equal, the better were their chances of winning. Education, too, was an important factor, so that it was of little use to show a green horse, however good he may be. Mr. G. H. Gooderham, Toronto, was a successful competitor in several sections, with horses formerly owned by Messrs. Crow & Mur-ray. The mare, South Africa, by Jubilee Chief, that won numerous good awards last year on both sides of the line, and again won this year in Boston, was a hard rival to butt against. She is now owned by Mr. Gooderham, who also showed Always Ready and Just Ready, a plain pair on the halter, but extravagant actors under the reins. Mr. Crossley's Hackney, Rosseau Jewel, did well in the small class Yeager & Curzon, Simcoe, also Charles Head, Guelph, had forward some good things, that won in fierce competition.

#### SADDLE HORSES

The various classes of saddle horses were heavy, running up to 29 entries in the section for combined saddle and harness, and 28 for mare or gelding over 15.2 hands and up to carrying 100 pounds. They were judged by quality, manners, paces, conformation, and ability to carry the weight in their respective classes As might be expected, the Thoroughbred type predominated, and the finer, the better, when accompanied with sub-The dual-purpose class was an stance. exceptionally good one, there being about a score of good saddle horses that would hitch up well and show a deal of style.

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tions. The newcomer was considerably the heavier, lacked nothing in quality and carried himself high, rapid and gracefully. The Crossley colt is quality to a fault, and carried the audience with his airy action, but he could not get above 2nd place, this being his first defeat, although he has shown many times. Mr. Sorby's colt is nearer the cob type than either of his rivals, and is very catchy in his manner.

There was a good class of mares, seven in number, made up of four three-year-olds and three twoyear-olds, and with the exception of Mr. Crossley's Countess Josephine, from Fireworks and Althorpe Duchess, and Mr. R. Davies Lady Minto, from Barthorpe Performer and Lady Lynn, Mr. Beith supplied the lot, and they were all bred by himself. They were indeed a beautiful lot, bred in the purple, well grown, schooled and brought out, Beith's Hermia, by Royal Standard, and out of Cherry Ripe, possesses her sire's color, form and ways, which are hard to fault. She goes high, with an ease, dash and courage that compels one to wish to drive her. She won 1st and was followed by the younger daughter of Squire Rickell and Mora's Queen, a chestnut much like her sire in form: in fact, this horse seems to stamp them all alike; and then she is half-sister to Jessica and the late Banquo, so she has a right to be good. Mr. Crossley Countess Josephine is a particularly sweet filly. two years old, inclining to the cobby type, and quite a geer. She won 3rd and afterwards the English for best mare or filly from imported sire and dam, both registered in the Hackney Horse Society Stu book of Great Britain.

res and geldings by Hackney sires were shown in borness. This class called for high steppers, not an 15 hands high. Six entries were all that con. ted, and a dashing lot they were, all fitted

#### LIPTON [2950] (10681).

Three-year-old Clydesdale stallion, son'of Sir Everard [3293], and brother of the famous Baron's Pride [9122]. Fourth prize at Military Tournament and Horse Show, 1901. Imported by Bawden & McDonell, Exeter, Ont.

### OWNED BY JAS, HENDERSON, BELTON, ONT.

A. Frank & Son's (The Grange) Terremont, by Dandie Dinmont, a race-horse type, was the fourth entry

Stallions qualified to improve the breed of saddle horses and hunters made up a class largely of new blood, including three horses of Lt.-Col. Dent's selection in England as suitable sires of army remounts. They are termed Thoroughbred-Hunter stallions, and, from their form, should fill that purpose well. They were imported and exhibited by the Telfer &Climie Co., Montreal. The winner in the class was Ballymore, bred in Ireland, and sired by Hollywood. He is bay in color, with white on face, stands almost 16 hands, is powerfully built, and very breedy. The 3rd and 4th awards went to this firm on Rother val and Halifax, bred in England: the 17-year-old Billetto, exhibited by W. Barbour, Toronto, win-ning the 2nd award. This old horse is fresh and in fine form. He has many good sons and daughters to his credit in sections where he has traveled. What was formerly known as the Prince of Wales prize, was this year designated King Edward VIL's prize, and was for best Thoroughbred stallion any age. The winners in the two former classes met here, and for a long time it seemed a draw between them. After repeated close examinations and measuring with a line, it was decided that the newcomer, Ballymore, was entitled to the honor. While Kapanga is a chestnut and Ballymore a bay, they are very much alike in size, form of bone and body and both well disposed and free of blemishes.

CARRIAGE OR COACH.

Style and action were conspicuous in this class rather than uniformity of breeding. A horse of

The 1st award was won by Queen Bertha, a fine gray mare, 16 hands high, owned by George Pepper. Adam Beck was a conspicuous winner in saddle horses, and L. Meredith won some good victories.

### HUNTERS AND JUMPERS.

Hunters were divided into qualified and green, and again into heavyweight and lightweight, the former up to carrying 180 pounds, and the latter up to 150. Qualified hunters must have been fairly and regularly hunted with a recognized pack of hounds for more than one season, and a green hunter for one season only. The competitions were fairly keen, and the animals in hard flesh and good jumping form. They were, as a rule, a well-bred lot, of the Thoroughbred type. Adam Beck and Geo. Pepper were the largest contributors, but good horses were shown by other exhibitors. The exhibits of the former gentleman were, as a rule, better schooled to clear the jumps, and in other ways obey the commands of their riders. Jumpers were open to all, and ran over a score of entries in the first class. Performances over fences was the test, and, as a rule, good looking animals won, the winners in several cases being identical with the best hunters. This is an interesting contest to witness, demanding trained riders as well as schooled, well-bred horses. Many a horse refused his jumps, and many hurdles were turned over and broken, but seldom did a rider leave his seat.

### ROADSTERS.

There were three classes for roadsters: those in single harness, under 15.3 hands, and 15.3 and over,

### THE FARMER'S ADVOCATE

and for pairs. They were not necessarily Standardbred, although most of the best entries were recordable. A comparison of the number of entries in the various sections indicates that good small ones are more common than good large ones. In the first case, a dozen entries were forward, all good smart road horses, suitable for light conveyances on good roads. As a rule, they were a good looking lot, showing fine quality. Six entries competed in the bigger class, and three in pairs. To a practical mind, it is a real treat to see at a horse show a lot of good-looking horses that make time first and display afterwards, having long, flowing, well carried tails, and harnessed for their work rather than display. These features characterized the roadster class, as compared with the other harnessed classes, that are calculated to attract admiration by extravagant rather than utility action.

There were two well-filled classes of ponies, 12.2 hands and under, and between 12.2 hands and 14.1. These were the blocky, strong-boned Shetlands, the finer and fleeter Welsh ponies, and the produce of these from Hackney sires : and it was the last of these, from Welsh mares, that fill the eye of a horsy boy.

#### CAVALRY HORSES,

The Governor-General gave a first prize of \$30 and a cup or medal worth \$25, and the Dominion Minister of Agriculture gave a second prize of \$20 for the best 4-year-old gelding or mare for 1 iding or cavalry purposes, not less than 15 hands and not over 15.3, and sired by an approved Thoroughbred stallion. This seasonable offering was the object of considerable interest, there being 14 competitors for the regal prize. The winning horse, owned by Mr. L. Meredith, London, is a bay gelding, named Cremorne, 15.24 hands high, and sired by Ranalagh. Scottie, a chestnut gelding, 15.2, from Gold Fox and a Whistle Jacket mare, and owned by R. Porteous, Simcoe, won 2nd; and a chestnut mare, Lady Athol, 15.3, by Gold Fox, shown by Stewart, Craig & Galloway, Guelph, won third. These horses were breedy, stout backed, good-legged specimens of the Thoroughbred type.

### "The Holstein Interest in Canada."

Kindly allow me a short space for reply to an editorial in the April number of the Holstein-Friesian Register, under the above heading. Commenting on the remarks made at our last annual meeting by our worthy President, the editor has gone entirely astray when he came to the conclusion that the Canadian Holstein breeders most keenly felt the disadvantage of maintaining their own herdbook. I can assure him that Canadian breeders never regretted the step they have taken. and that the establishment of our own registry has done more for the interest of the breed in the few years of its existence than the Americans would have done for us in twenty years. Our President only expressed his indignation at the small, mean and unbrotherly stand the Americans are showing towards us fellow-breeders. Canadians are not clamoring for any undue advantage or favors, but just what is fair between neighbors. (All we is that they recognize our registration, as we ask do theirs.) This, the editor says, is out of the question, as our Association was not on a parity with the American. Pray, will the editor enlighten us wherein it is not ! Our Association is incorporated under a government charter : our standard of perfection, our by-laws and system of registration are almost identical with theirs-the standard of our record of merit is placed even higher than their own. It is true that our registrations numerically are not one-tenth as great as theirs. But what of that! Has not the worthy editor got their own herdbooks? How do they compare with ours? It took them years to get out their first few volumes, and then they were much smaller than ours are, of which we publish one nearly every year. We are a different nation, under different laws and circumstances, and are quite capable of running our affairs without American aid. What drove us away from them was simply the fact that their affairs were run for the benefit and in the interest of a few large and selfish breeders (which also led to the establishment of a rival herdbook association in their own country). Their membership and registration fees were placed so high that the beginner and smaller breeder (the very man whom they had sold their stock to at enormous prices) was practically shut out from either, so that they could have the entire field to themselves. They seemed to want to own the whole world and a patch to plant potatoes on besides, as the saying is, and it now appears that Canada should be this potato We charge a smail membership and regispatch. tration fee, which is enough to manage our affairs and still leave a surplus to be spont yearly in the interest of the breed, in prizes at the different dairy tests: whereas, they charge high fees, put the money (which they don't spend in salaries) into the bank, and when suff chances as the Columbian World's Fair and Pus American come to demonstrate the superiority of our breed of cattle, they doe a lot of jangling w drop out of it. If v Ecosional Register live Connector Association f. zo than is allot

### Various Breeds of Cattle at the Union Stock Yards, Chicago.

#### BY D. E. SMITH.

Time has lavishly scattered, in this immense Western country, a vast variety of cattle. There can be seen among the herds that graze on hillside, dain and valley, representatives of all the bestnown breeds of cattle in the world. These, from time to time, find their way to the Chicago market, and are quickly bought up. Besides grades of most of the breeds and natives, there are the following breeds found on the market almost every week: Shorthorns, Herefords, Polled Angus, Holsteins, Jerseys, Guernseys, Galloways, Ayrshires, Devons, etc., etc. These all are used for beef purposes, although milkers, springers, stockers and feeders are also sold here. To the casual observer, there is great difference in the cattle that come from the different States, and the production of beef animals is a sure indication of the progress and prosperity of the State or country from which they come. First, let-us look at the cattle that come from Tennessee. They are small and thin-fleshed, as a rule ; in fact, all Southern cattle seem to be somewhat smaller than in the North. These are mostly grade Jerseys, with a fair percentage of low-bred grade Shorthorns, and an occasional Holstein. The class of cows that find their way here are thin to medium fleshed, that weigh from 700 to 900 pounds. Many of them appear to be old, broken-down cows, that are no longer of any use. The cattlemen down there seem quite conservative in their breeding, and lack enterprise, so that but little improvement has been noticed in recent years.

Everybody has heard a great deal about the xas steer. The old-fashioned long horned steer Texas steer. rapidly becoming extinct. The enterprising exan, while he admired the long horns and odd shape, did not see much money in him, so he soon introduced pure-bred sires, and, as a result, there has been a marked improvement in the class of cattle that come from there now. Quality is the watchword that is sent from one end of Texas to the other. In the selection of sires, a preference has been given to the Herefords, as they seem to meet the requirements of that vast country better than any other breed. They are strongly prepo-tent, and impress upon their offspring their own color and individuality, so that a great change is noticeable. To-day (April 24th), Texas steers brought in Chicago \$5.40 a hundred, live weight, which goes to show that they possess quality, and were fat. The Herefords adapt themselves best to that warm climate, and keep in better condition than any breed yet tried there. Many of these grade Herefords are sold as yearlings, and are sent orth to be fattened in Montana or the Dakotas, and from there come to the Chicago market. Besides these, there is a good class of cattle raised on the ranges in Montana and the Dakotas, but they are wild and do not get so fat as those that have been in the feed lot. From Wisconsin and Michigan come a class of cattle that are largely of the dairy pe, and, as a result, do not bring a high price. Many cows come from these States which have been used for dairying and then fed for a short time and sold for beef. From Iowa and Illinois come the choice cattle of the West. They have been bred for beef for years, and many of them are of excellent quality. Besides this, these States are in the middle of the corn belt, and an immense quantity of corn is grown and fed. All the best teers get corn, and many are finished with the addition of oil cake. The prevailing breeds are Shorthorns, Herefords, and Polled Angus, but Shorthorns far outnumber all the other breeds together, and they are evidently holding their own. They are distinctly a beef breed, but they also combine in themselves more general qualities and are filling the requirements of these States better than any other breed, although they have strong competitors in the Polled Angus and Herefords. One of the choicest loads of cattle that ever came to the 'hicago market was a cross between the Shorthorn and Polled Angus. The dams were highgrade Shorthorn cows, and the sire was a purebred Polled Angus bull. The result was most satisfactory, as the cattle were black and without horns, and of superior quality. The breeder of these cattle said they took on flesh rapidly and evenly and were a very desirable kind of steer in every respect. I also saw another choice load from a cross between the Shorthorn and Hereford. These also were of excellent quality and were much admired by all who saw them. From observation and from what I learn from up-to-date breeders, can safely say that excellent results are obtained from the first cross of high-bred grades by a purebred sire of another breed; in fact, many go so far as to say that such a cross is superior to the purebred of either breed, and from what I see, I can endorse that opinion. It goes to show what a purebred sire will produce on high-grades, and, reasoning along the same line, it indicates what a purebred bull will produce, even if crossed on an ordinary grade. It may not be out of place to make some remarks on the three leading beef breeds as we find them here : Shorthorn steers of good quality, and fat, are always in demand on the Chicago market. The buyers consider them an excellent breed, and when y hang up on the books in the packing-houses they look very well, and the beef is always salable, The feeders consider them excellent, and the best dity meet with ready sale at satisfactory prices. they make an excellent cross on the grades and gives all through this country, as they impress

their beef characteristics on their offspring — the Herefords are also a good beef breed. They exect in the South and out to pasture, but there is a tendency to bunching the fat, and the carcass has not so smooth and fine an appearance as is desired, and, as a rule, they do not, when slaughtered, produce so much beef to the carcass as the other two breeds.

The Polled Angus, for beef alone, are very good. The carcass hangs up white and smooth, and the appearance is certainly in their favor. They fatten well, but there is a tendency to wildness in many of them. They must be ripe to give the best results. Buyers like them very well.

There are some lessons which we can learn from what we see here. To get the best results, corn must be fed freely and the cattle must be made ripe. Herefords should be sent to market as yearlings, for then they do not become bunchy. All should be put on fall feed for a long period in order to get the best results. Exercise and plenty of outdoor air conduces to firmness of flesh. Oil cake added to the corn is a great help in finishing a steer properly. It is almost impossible to finish a steer on grass alone.

### A Dairy School Education.

### BY AN EXISTUDENT.

Is a dairy-school education necessary for the production of a first-class dairyman? In answering this question myself, I would certainly say "Yes" with emphasis, for I am strongly of the opinion that a dairy-school education is not only necessary, but that it should be made a compulsory requirement of all cheese and butter makers.

Many of our makers who have never availed themselves of the advantages to be gained from attending a dairy school are very unwilling to admit that knowledge of the trade can in any way be increased by a three months' course in some of our dairy colleges. Undoubtedly, some of these same men are good makers, and have probably been successful in manufacturing a good article for a number of years. They have the practical part of the trade mastered almost to perfection, but it must be remembered that in cheesemaking practice alone does not make perfect. Practice is all right, and a man must have it before he can manufacture cheese, but theory is of no less importance. In these days of advancement in every line, we must know all there is to be known about our trades or occupations if we want to keep abreast with the times. A cheesemaker should know the "whys" and the "wherefores" of his trade, or he cannot be a first-class cheesemaker. He knows that certain results will follow if he persues a certain course, but he also should know why these results follow this course of action.

To my mind, the knowledge obtained in the bacteriological and milk-testing departments alone will repay the time and cost of attending a dairy school. A cheesemaker is not a cheesemaker at all unless he understands the action of bacteria. The art of cheesemaking is simply knowing how to control the different forms of germ life which you have at your command: that is, to retard the growth of the undesirable, and to encourage that of the desirable to the extent to which they are wanted. Cheesemaking is but a side issue of bacteriology, and a knowledge of the one is absolutely essential to the thorough mastery of the other,

In the milk-testing department a knowledge is obtained which cannot otherwise be procured. The term milk-testing is generally misunderstood. When you speak of this process, most people understand that you are referring to operating the Babcock tester to determine the fat content of milk. This is certainly true, but it is only partly true. Milk-testing in all its branches has a much wider We have adulterations to contend with, meaning. and these require a great deal of extra knowledge to operate the Babcock teste thorough drill is given in all the various uses of the lactometer, and also the oil test. Mill testing is not so simple as most people imagine. In fact, most students find it the most difficult subject they have to face.

FOUNDED 1866

### Successful Calf Feeding.

Success in raising calves by hand feeding may be summarized in a few lines. The calf may be taken away from the cow a few hours after birth, or left with her till her milk is fit for use. The calf, in any case, should have a reasonable quantity of the first milk of the cow, and it should have a small quantity (not more than one quart at first) of its mother's whole milk, warm and fresh from the cow, three times daily till it is two weeks old, increasing the amount gradually to two quarts three times a day at that age, when one-half may be skimmed milk, and the quantity may from this time be gradually increased till at four weeks old skim milk may form the whole ration, and four quarts twice a day be fed, and later six quarts at a time may be fed as the calf grows older, but always fed sweet and warm. To be absolutely safe, the buckets from which the calf drinks should be scalded after each feed, as decaying milk generates poison germs which are apt to set up the disease of diarrhea, which is one of the greatest difficulties in raising calves, and the principal causes of this are sour milk, cold milk, irregularity and over-feeding, or feeding meal mixed with the milk. Calves will learn to eat hay and dry meal at two to three weeks old, if a little is put in the mouth after feeding them milk. At four weeks old they will eat half a pound per day, and with the moderate amount of milk recommended above will grow and thrive from the start, and if kept in div. clean quarters will almost certainly be exempt from

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### MAY 20, 1901

### THE FARMER'S ADVOCATE

### Draft Horse Breeding.

The Scotch collie is well equipped by nature for

around the neck and a white breast is the favorite

Training a Collie.

his calling : his shaggy coat protects him from the cold storms on the mountains, and also from being scratched by the rough heather. His long bushy tail is used as a helm to steady and assist in sudden turns on the mountain-side. A bobtfailed dog cannot stop and turn quickly on steep ground without whirling over.

In the north of Scotland, black with a white ring

I will try to give a few points on horse-breeding to show those who are unconcerned what the mar-ket is begging for, which is a draft horse with plenty of size, quality, and of a good color -- bay, brown or black. I think there was never a time in history when the general breeder could raise colts with as much assurance of a fancy price as last eason and the one approaching, if he is careful in making his selections and has a higher motive in view than just simply breeding to please some

clever fellow that hapens to have a stallion. I think one of the greatest causes of common horses is that too many breeders' only object is to raise a colt, regardless of what its future will be, realizing that the breeding season is a very busy time for farmers, and thinking that they cannot afford to give a day or two in order that they might be able to find just such a sire as is producing the kind of stock the market is paying long prices for - and not until too late do they find out their mistake.

And now let us consider this important question and use our very best judgment in selecting sires this spring. If we do we shall surely reap a reward for our trouble. and in a short time will have an inducement for buyers to come to our homes, We will feel proud to show our stock, and we can truthfully say it well paid us even if it did cost a trip into another county. After we do raise good horses of the right type we won't be satisfied

unless our names are on the list as successful horse-breeders. One of our greatest mistakes in horse-breeding, I think, is in not sticking to a certain type of horse. I am sure the cross breeding is one of our greatest errors. It does not make so much difference if of different breeds of similar type, but I think it does make a great difference when we go to crossing draft horses with roadsters, as the offspring is neither a drafter nor a roadster. This sort of breeding is a great source for the chunks that are flooding the market and causing a good many would-be

horsemen to think it does not pay to raise horses. I have in mind a successful horse-breeder that claims he made more money in breeding horses than in anything he ever undertook, for the amount invested, and says he owes his success largely to the selection of sires and always keeping his stock in show condition. He has quite frequently gone forty miles to a stallion, and has the last three years been going twenty miles, owing to the fact that he is unable to find his model horse any nearer. It would be wise for us who are not expert judges to pattern after this same breeder, breed good mares and take good care of the colts, esecially the first year of their lives. Their future depends largely upon their care the first winter and never being neglected thereafter.

### Farm Siftings.

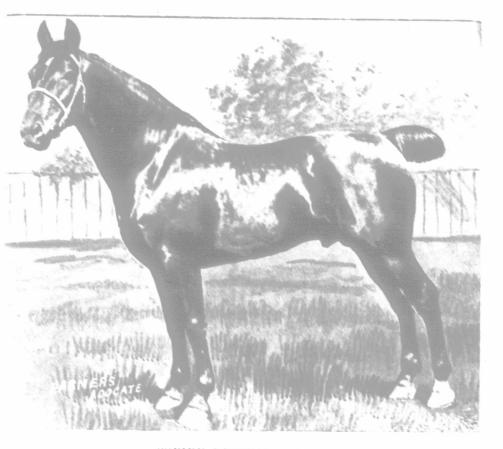
Building is one of the farmer's summer diversions: it may be a house, a barn, granary or other outbuildings. The farmhouse should be planned for comfort and convenience, care being taken that its arrangement is the handiest possible. Most people like a good cellar : the getting to that cellar is not always by the easiest route possible. In this connection, for the convenience of the housewife, have a dumb waiter (a miniature elevator from cellar to kitchen) installed, and thus save the endless running up and down steps, one of the hardest forms of work a woman has to do. The soft-water cistern should be connected by a pump with the kitchen sink. Hewing of wood and carrying of water is not woman's work

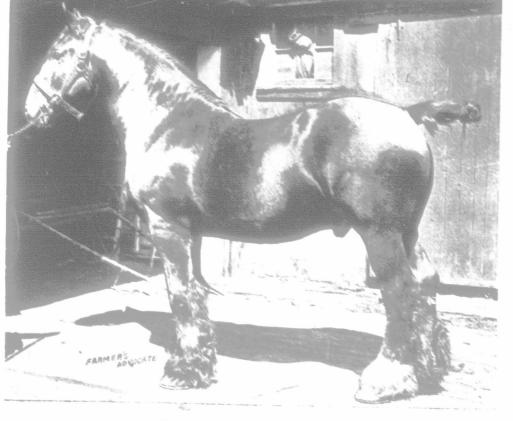
The source of the summer's meat supply is often a serious one on the farm. Some patronize the butcher not the most economical way from the farmer's standpoint), others belong to a beef ring, while the majority depend on the cured pork they have stored away. Variety in diet tends to aid digestion, so that the following method of curing mutton hams might be tried and found beneficial

The legs of mutton are first dressed into the required shape, and then have well rubbed into them a mixture of equal parts of salt and brown sugar ; after this they are left to drain for about 24 hours. At the end of that time the hams are placed in pickle made by dissolving 2 lbs, each of common salt and bay salt, 6 ounces of saltpetre, 1 lb. of brown sugar, and 1 oz. of sal-prunella, all slowly boiled together in a gallon of water for about two nours. After cooling, this pickle is poured over the hams, which are allowed to remain immersed in it for a period of from 10 to 12 days. At the end of that time the hams are removed and hung up to dry, after which they are smoked in order to give them the requisite flavor. Mutton hams cured in this manner keep for a long time, and though somewhat troublesome to prepare, they are such a novelty that in many places they are considered well worth the trouble of curing.

To the farmer that milks cows for the sake of the money to be made from the work incurred, the project of Prof. Grisdale, Agriculturist at the Central Experimental Farm, Ottawa, is worth taking note of. Few realize as yet that their cows are only pay-ing cents where they should pay dollars! It is time for a change, to use the hackneyed political expression, so get a spring balance, find out what each cow is doing, and thereby enable yourself to have a balance on the right side of your ledger.

Speaking of balances, brings up the question of farm bookkeeping. Many a one will not start to keep farm accounts because they are afraid it requires the training of an accountant. This is not so: set of farm books can be kept by almost any farmer, that will show him at the end of each financial year how he stands with the world. Prof.





### WILCOTT THUMPER (18452).

Shire stallion. Second prize at Military Tournament and Horse Show, 1901. IMPORTED AND OWNED BY MESSES, RAWDEN & M'DONELL, EXETER, ONT,

color: this on account of the ease with which they can be seen on the mountains, and the shepherd can tell when they are looking at him by the white breast. In Scotland the dog has to work often at a great

distance from his master entirely by signs. The training of a young collie is a very delicate undertaking, and few men are fitted for it. The trainer must be firm, kind, patient, persevering, and NEVER SCOLD. You may chastise a young dog severely and hold him till the fright has passed, then look kindly at him as you let him go, and he will love you: but if you scold him, you have lowered his dignity, and he will skulk away. NEVER to

look you in the eye again with that loving, friendly, companionable, intelligent, trusting look of a noble shepherd dog.

When I was over in Scotland in 1806, I visited a cousin (Adam Riddell, of Greenleas), famous in that part of Scotland as a dog trainer. Though a man of S0 years, he had his dogs under fine control. If a sheep ran away, most dogs would try to stop it by turning close in front, but he trained his dog to run wide and away beyond the sheep quite a distance, then turn suddenly and drop, with his eyes fixed upon the sheep, and it was a rare thing for one attempt to pass as long as the dog lay there.

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I have had some very good dogs in this country, though trained principally for cattle and hogs When railroads were scarce we had to drive our hogs quite a distance to market. I had a collie which 1 often sent even with strangers to help them drive their hogs to the station, a distance of ten miles. He was more help than three or four men. If a hog attempted to run back, he would catch it by the ear and swing it around two or three times then. with its head turned in the right direction, he would let go and drop behind it : if it went right, all was well, but if the hog still persisted, he would repeat the operation until he conquered, without ever losing his temper. One day a drove of hogs was driven into town, among which was a large Berkshire boar so fierce that he drove every team off the road which he met. The boar seemed to fear neither man nor beast. His owner wished to rope him, but how to catch him was the question. Some proposed turning two bulldogs out to catch him, but the owners said he would kill them. neighbor said my sheep dog would hold him. The crowd jeered and offered to bet money that no dog could handle him, but he said: "Get your rope ready and I will show you." Then, calling my dog up, he said : "Shep, watch him." He caught the boar by the ear as the savage boar gave a terrible side stroke with his tusks, expecting to rip the dog The movement only threw Shep over his back behind the shoulder, where he sat with the bear's head twisted around and his nose up in the air perfectly helpless. "Now rope him and he is sate, came the order. Then went up such a cheer old "Shep" as was never heard on that square re or since.

man almost gets a fellow feeling for a faithful rend dog. H. H. Oliver, in Live Stock World,

### Good Stock Water Scheme.

Mr. J. W. Fagner, a progressive stock farmer. built a 1,000-barrel brick and cement reservoir, which was arched over like a cistern. Then he plowed and scraped the dirt up

over it, making a mound perhaps a dozen feet high. The water is pumped in by windmill, and, no mat-ter how cold the weather, is always at the proper temperature for watering stock. He has it piped to the hog house, cattle stable, and all the feed lots, and does away with the necessity of tank warming devices. It works like a charm, and Mr. Fagner says he does not see how he could get along with

#### SQUIRE RICKELL (1) .

Hackney stallion, by Cadet 1.5 . First prize and sweepstakes at Military Tournament and Horse Show, 1901,

#### OWNED BY R. BEITH, BOWMARVILLE, ONT.

Reynolds, of the O. A. C., Guelph, had a very suitable system of farm bookkeeping, so I am told. Wm. Rennie, in "Successful Farming," also outlines a system. Give farm bookkeeping a fair trial and you will always keep books afterwards.

Good health and farm life used to be considered as partners, yet, in this country at least, we find the

reverse is often the case. The reason - too much work, some will say. Oh, no ! Not as a general rule More cogent reasons are, lack of variety in the diet too hurried meals, poorly-ventilated sleeping apartments, bad drinking-water, neglect of nature's laws In connection with the two latter, the farm privy needs calling attention too, both as to its care and location. Every summer, in Manitoba, typhoid fever claims its victims. Why? Because the wells are in many cases contaminated by seepage from privies or other excrement-holding places. germ of typhoid is passed out of the human body with the feces: consequently, contamination of the well water by fecal matter must not be allowed if the family is to be kept free from typhoid. In cities the water closet or privy is carefully looked after by the board of health; on the farm it is the most neglected of the necessary farm offices. The privy, if of the open vault variety the worst form, by the way - should be at least one hundred feel from the welt. If the open vault is used, it should be lined with cement, the contents should be frequently sprinkled with chloride of lime, and removed at frequent intervals. A better plan is to have a water-tight box constructed for the collection of the excreta, and dry earth or ashes thrown in the box at intervals, the box to be emptied *twice a month* or offener. If a system of waterworks is in place at the farm, the disposal of sewage will be rendered less difficult.

The question of tree-planting is getting to be alittle stale to you by this time, and yet one wants their place of abode homelike. Nothing will tend to give the desired homelike appearance to the farm-steading equal to healthy evergreens, such as the native spruce. The details of planting. time, etc., can all be found in the columns of the ADVOCATE. The instructions given, if carefully followed, will bring success, because those instructions are given by experts.

My attention has been called to an editorial in the Virden Advance, wherein a paragraph of a late Siftings is severely criticised, and in which I am told the stockmen are not the bulwark of agriculture. The writer of the editorial has evidently overlooked the articles from several of our best farmers and grain-growers which have been running in the AD-VOCATE, who declare most emphatically that live stock husbandry is the basis of all successful agriculture. The optimism displayed with regard to the handling of a new fund, to be handled by the Government, is truly refreshing. The stamping of my assumption for the live-stock industry of the premier place in agriculture as nonsense is one of the best pieces of evidence 1 have yet come across of the pressing need for an agricultural college in the Province, if only to educate an editor as to what constitutes farming! It is well known by people who are informed that the localities raising and shipping out live stock are the ones in which debts are paid, and where merchants delight to sell goods. The grain system of farming means seven months work in the year, and five months idleness. a system bound to have degenerating effects on any class of people : the live-stock business is an all-the year-round one, keeps up the fertility of the land, keeps ready cash in the farmers' pocket, prevents him from being *altogether* squelched by a hail-storm, and keeps our tables well supplied with a variety of diet, from beef to butter. The idea of charity being dispensed by villagers to real farmers is as ludicrous as it is nonsensical. I have not championed any hail-insurance company yet : still. see no reason why a *properly-organized* company cannot attend to hail insurance with results satisfactory to everybody. INTER PRIMOS.

### The Farm Separator in Home and Creamery Buttermaking.

To the Editor FARMER'S ADVOCATE :

SIR. If a farmer has ten cows, and is using the old-fashioned milk pans, and his herd averages three pounds of buttler per one hundred pounds of milk, it is safe to assume that with any of the standard makes of cream separators his yield would be increased by about one-quarter or more. The same thing is true regarding the deep-setting system. The gain by deep setting over the shallow pans is not so much in an increased yield as in quality of butter. In summer the deep-setting system will yield more butter, while in winter or in cool weather it is a debatable question as to whether the deep-setting will equal the shallow pans or not? Both these systems have had their day, however, and the question now is, not which system shall the farmer adopt, but, having decided to produce butter, will he patronize the nearest creamery, or, by the aid of farm separator, manufacture his own product rests with the individual to decide this question. While many creameries give perfect satisfaction to their patrons, perhaps, on the whole, not more than one-half are satisfied. There can be no question about the ability of many farmers' wives to produce as good or even better butter than the average creamery. Their difficulty is not in producing, but in marketing their butter. They must find customers who appreciate a good article and are willing to pay for it. If they take their butter to the grocer and sell at current market prices, they accept less than they are entitled to. They can only hope to cater to the home market, as the shipper cannot procure enough butter of uniform good quality to make up a shipment. The patron of a creamery properly conducted stands in a much better position to secure a market than does the individual producer. But this advantage is to some extent counterbalanced by the cost of the service rendered by the creameryman. If you hire a man to do your work, you must pay him. That is only fair, provided the price is not too high. What, then, is a fair price? Where the creameryman pays for Where the creameryman pays for gathering the cream-not milk-three cents per pound is a fair price for making and marketing the butter. We have never known one to succeed at a less rate, and would feel disposed to make very frequent tests of our cream if sending to a creamery the owner of which professed to be working for Where the whole milk is gathered and separated at the creamery or at separating stations, the cost is considerably more, as the cream, being only oneeighth of the whole, eight-eighths have to be gathered and seven-eighths returned, which make fifteen times as much labor as to gather the cream only. Add to this the cost of keeping up a number of costly power separators and power and attention, especially where customers are few and far apart, and it puts this system practically out of the running, especially if charged with the difference in the value of milk skimmed and fed fresh from the cow, and that which has been drawn some miles to the separating station, heated and returned in bulk, making it impossible to feed in good condition and in proper season. It is a matter for regret that this system should have so many drawbacks. Many enterprising men have invested considerable sums in building and equipping fac tories for this system, and have been instrumental in educating our farmers to the necessity of adopting modern methods into what is fast becoming the most important branch of the farming indus-But the farm separator has come to stay. try.

amount of sympathy for the unfortunate factoryman will induce a farmer to lose a large percentage of the product of his dairy for long, and a little

rator is also commendable from the creamer standpoint, provided his is a cream g. creamery, but the operator of a separator cre cannot readily be induced to accept sepcream from patrons, because it is sure to lack uniformity of the cream separated by hims in the creamery, and lacking uniformity, the 11ing is therefore less within his control, and result is an uncertain quality of butter. We want d welcome a discussion of this practical subject m a patron's as well as a creameryman's standpos ED. F. A.I.

### Springtime on the Farm.

What pleasure it is to live on a farm! There are so many things of interest surrounding the life of a woman on the farm, which our town and city sisters are lacking at this season. To be sure, there are privileges which they enjoy, of which we are deprived. There is one thing which, we believe, the city and country woman possesses in commonhouse-cleaning in spring. It is a grand revenge on pent-up dirt and cobwebs, to be able on some sunshiny day to open windows and doors, and turn all inside out. Men, occasionally, appear to object to the reign of the mop and the broom: but we put that all down as mere pretense on their part, for sure we are that if a spring passed by and they saw no sign of a "clearin' up time," there would be more grumbling, and with good cause.

What a difference between a breath of country air and city air in springtime! We will not attempt to describe or analyze the spring air of a city in the early dawn. But the country air in the early spring morning ! When the housewife opens door or window and draws in a long, full breath, she feels that it brings her a new lease of life. It is filled with a mingling of odors of budding life in tree and plant. It wafts to her the sounds of bird and beast, and the music of the Canadian water band. Everything animate is preparing for a new year of busy, useful life, and she cannot resist the feeling that she is one member of a great whole, born to assist in doing her part to work out the great scheme of the universe. As she goes around during her day of homely duties, every now and then her eye or her ear catches some new proof of spring freshness and beauty. The songs of the birds beguile her into recollection of some long-forgotten song or hymn of her childhood. Ever and anon,perhaps, one of the children of the home rushes in with tidings of some discovery in flower or animal, or may be it is a treasure of last summer which they have found just uncovered from its blanket of snow. which to them is quite as interesting and valuable as the city child's expensive toy

Mothers, do not grudge a little time and show of interest to the boy or girl when they bring to you some thing of nature to exhibit its wonder or beauty. Look at the streaks on that pretty stone brought from the creek or the snail shell – and take a few moments to tell them what you know of the soft wee thing who carries his house on his back. Take the beautiful anemone out of his hand, and show him the downy wrappings of the bud, which protects it as the baby is wrapped in its blanket. Tell your wee girlie where to find a "nice big ant hill," and let her go and lie in the sun beside it, and afterwards come and tell you what she saw there.

Oh, there are hundreds of things that foster a healthy, true idea of life in the country boy and girl. if only their parents will take a little pains to incul them cate the save the children from drifting in after-life into impure thoughts and into wrong actions. Once imbue a child with a true love for nature and nature's works, and it is a rare exception that he loses it, and if his mind is filled and his thoughts are intent on the works and plans of the Great Creator, there will be no room for baser matter. The business men and the city housekeeper too can instruct their children along these lines, but it requires a greater effort; while to those who live in the country, the means are all around, and it is wilful and almost criminal neglect if they refuse to take advantage of their surroundings for themselves and their children. MRS. NEVILLE. Assiniboia.

### A Hint from Abroad.

The Scottish Farmer, commenting on the evidence recently given by Prof. Jas. W. Robertson, Agricultural Commissioner, before the Parliamentary Committee on Agriculture, at Ottawa, draws lessons for the British dairymen, pointing out that the latter, owing to alleged shortcomings of Canadian produce, have now an opportunity of which good use can be made. Among the points to which attention is called is first in regard to butter, that there has been a cessation of improvement in the equipment of Canadian factories necessary to turning out increased quantities of the finest product, and secondly, that there has been a slackening off in regard to the quality of cheese arriving in England from Canada. Special attention is called to deficiencies in boxing and in regard to the ventilation of cars and steamships. We learn also that in several localities, owing to the brisk demand and good prices prevailing last year, factorymen and makers became has strict in regard to the character of the milk coverved, and at a number of annual meetings it was ficely stated that patrons were to meetings it was neery stated that patrons were to have practically a free hand this season in feeding turnips, a practice which had been systematically fought down for years past and which was thought to have been stropped out. Last fall we heard of cases where both corrups and tops were handed out great piles for the ows to consume without int Thoughtfal most in the dairy business itedict that this i ing hodes ill far the are and the refe: . Conseque dairybe a sufficien: main distend of slack and the adoptio und the ment all along and the modern compo

thought on the subject will soon convince him that he cannot patronize a milk-gathering creamery without loss.

The writer knows a farmer who asserts that by making and marketing his own butter he receives from forty to fifty per cent. more money from the product of his dairy than by patronizing one of the best equipped milk-gathering creameries in Ontario—and he is a close figurer. The most sensible thing, then, is for the factoryman to make a virtue of necessity and accept the farmer's cream separated at home, and retain his custom. We leave our readers to decide for themselves as to what make of farm separators will best fill their requirements. There are several first-class separators on the market which should satisfy any farmer, and it is safe to give the "faker agent," who claims that he has the only "perfect machine," the go-by. The difference in the yield of butter from the various makes of standard separators is so slight that this item is of less importance than to get a machine that will fill the bill in other respects. The importance of a cream-gathering creamery is not less than the need of the farm separator, for by this means only can the best markets be reached. A uniformly first class article must be sent to the English market at a minimum of cost to the farmer to make dairying a complete success, and the farm separator and the cream-gathering creamery are the proper means to this end

#### Economist.

Note: There can be no doubt as to the advantages to the farmer derived from mechanical cream separation, either for home butternaking or for the eramery, as then he gets the full a due of his shemmalk, as well as more and higher parced butter. In his saves a deal of labor over the use of pans cans to home dairying. The use of the sep-

#### Clean Milking Important.

One of the things " worth doing well " is milking the cows. Why a cow ought to be milked clean every time is too old a story and has too many ar guments to back it up to make a lecture necessary every time it is mentioned. But its importance can not be brought out too frequently. It looks like a little thing to some men to slight a cow because she is a "tegious" milker; and it may be more convenient to leave a quart of strippings in the uddet than to put up with the side-stepping and tail swinging agitation of a "nervious critter": but the owner of a good cow might better have a "hand who will steal from him than one who doesn't milk the cows clean. He not only loses much of the richest milk that is perhaps the least of the objections to such neglect but the practice of leav ing milk in the udder has a deteriorating influence on the capacity of the cow. The longer it goes of the less milk she gives. And the small yield so becomes chronie Jersey Bulleting

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#### ARMERS AUTOLATE HE

Give the Boys a Chance.

Dominion, Are you doing your duty towards keep-

ing your boys on the farm? Don't think because

you never had a fine horse and carriage or a bicycle,

that your boys must go without. Nay, if your boys are ever to enjoy life, is it not when they are

believe the cause of most boys leaving the farm can

be traced to the father. He is apt to think his boys

should not spend money for this thing or that. He

young ?

They will grow old far too soon. I firmly

never heard of such things

considerable fault because

his son paid twenty cents

a week for laundry bills,

when he himself spent

twice the amount for to-

bacco. Then, too, I think

fathers should consult

their son's opinion, not

only for seeing how cor-

rect his ideas are, but to sometimes follow them as

well. For instance, there

is a fine colt in the stable.

A buyer comes along and

offers a good price for it.

You never gave it to Tom or Fred, but they have taken care of it, curried,

fed, and broke it. Now,

don't sell it without con-

when they were alone,

and I think as little as he

could have done would

have been to give us

twenty-five dollars each.

I know he put it in the

bank, and we will get it

Fred vows

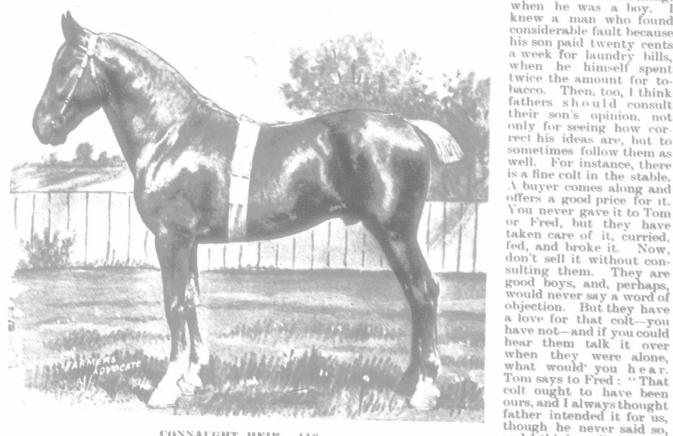
some day, but a fellow would feel better to

when he was a boy. knew a man who found

I would like to ask the farmers of this great

### Rape as a Forage Crop.

It will pay every farmer who keeps sheep or hogs to sow a few acres of rape for pasture. There is no crop which can be more cheaply grown or that will produce more wholesome and fattening stock food. It requires but little labor, and can be successfully raised by any farmer who will give it a fair trial. It does not require rich land, though, of course, the richer the land the heavier the crop that may be



### CONNAUGHT HEIR - 116 ----

Hackney stallion, three years old. First prize at Military Tournament and Horse Show, 1901, Will stand at his own stable this season. DUPORTED AND OWNED BY MESSRS, BAWDEN & M'DONELL, ENETER, ONT.

grown. It is generally used for fall pasture for sheep and young cattle, and for this purpose a good time to sow it is about the last week in June. Sown at that time, it is generally well advanced and fit for pasturing by the middle of September. As pasture for hogs, it may be sown early in May and pastured while young, as it will spring up again when eaten down, and the leaves are most relished by hogs, while sheep prefer the more matured stalks, and fatten rapidly on them. An overturned sod makes a very good preparation for a rape crop, if it is rolled and harrowed immediately after plowing to make a fine seed-bed and retain the moisture in the land. Land plowed the previous fall and cultivated occasionally in the spring, without plowing, makes a good preparation. Even stubble ground, plowed in May or June, may do very well if it is in good heart and care be taken to roll and harrow immediately after plowing and to bring the land into a fine tilth. A fair crop may be grown on good clean land by sowing broadcast at the rate of 4 or 5 lbs. of seed per acre, and covering with a light harrow. But the best crops are grown by sowing in drills, or low ridges, 26 to 30 inch es apart, with a turnip drill, 1) lbs, per acre, and cultivating with the horse hoe to clean the land and hasten the growth of the crop. The seed may be sown in drills on the level with the grass-seed attachment of the grain drill by closing part of the openings and sloping the rubber tubes into the shields of two or three of the hoes. The rows in this case will, with the ordinary drill, be only about 21 inches apart, which is rather too narrow to work a horse hoe to best advantage, but if worked narrow at first, to keep down weeds till the rape plants get high enough that they are not liable to be covered, the horse hoe may be worked wider later on and a good purpose served. There is no forage crop which will fatten lambs and sheep so fast as rape. It is well to give them the run of a grass field, as well as the rape, till they get used to the latter, and it is also wise to keep the sheep off the rape at first till the dew is off in the morning, or when it is wet from a rain, as they are liable to bloat from eating freely of rape when it is wet. But when they get used to it they may be safely kept on it continuously right up to winter, as the frost does not injure its feeding qualities.

he will, as soon as he is old enough, go where he can earn good wages. If Tom is foolish enough to stay home, he is not going to be. My idea of how a farmer should deal with his boys is this: He should consult their likes and dislikes. Early in life, when mere children, they usually form them. One will be very fond of horses, another may have a special liking for sheep or poultry. Encourage them all that lies in your power, for we all know if we are to make a success of anything we must have a liking for it. If it is poultry, see that he has a good warm house for his chickens it need not be expensive. Give him a

start in some pure-bred

stock, whatever vari-

ety it may be. He will

have a little to call his own now."

Fathers, you are making a great mistake by not allowing your boys to handle money when young. A boy who grows to be twenty one, having always had father do all the buying and selling, even to the clothes and shoes he wears, has been terribly wronged. No wonder, if left to fight life's battles alone, he fails. Don't have moneymaking your highest aim in life, sacrificing every other interest for the purpose of adding to your bank account. No one will think any more of you in this world, and, as you cannot take a cent with you, might you not better enjoy what God has given you, making those around you happy and contented ?

### The Score Card'in the Judging of Butter.

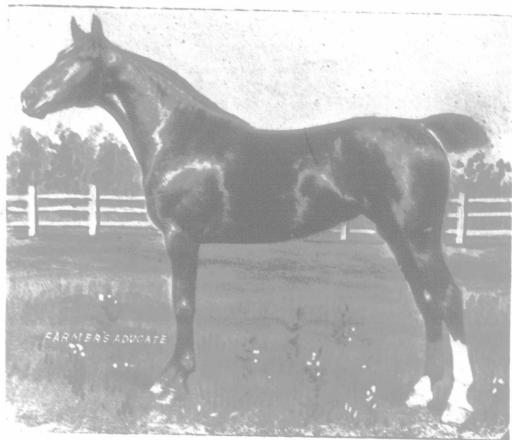
The use of the score card in the judging of butter eems to give satisfaction where used. In the hands of the expert it embodies the educational feature, as by reference to the score the maker gets a hint of the deficiencies in the article manufactured by him. The following is the form of score generally used, the possible points being 100;

lavor Irain.							1	1	1									- 1
olor .																		13
NALL																		2.41
inish		•																3

It will be noticed that 45 per cent, is allowed for flavor, consequently it behooves the maker to see that his product has the right one. Experts speak of the nutty flavor, a quality only to be obtained when cream is ripened properly by the maker. Such being the case, we see how important it is that the patron's cream should be in the best possible shape on arrival at the creamery. It is almost impossible for a buttermaker to manufacture a first-class article if the raw material-the creammay have ripened before coming under his care. So important is flavor, that bacteriologists have devoted a great deal of time to identify germs responsible for good and bad flavors. Twenty five per cent. is the maximum allowed for the grain. Nothing shows the manual dexterity of the maker more than the grain of the butter, shown by breaking off a piece, when the fracture shows flinty edges like a piece of broken steel. The grain shows, among other things, whether churning was con-tinued long beyond the breaking point-that is, past the granular stage—and, also, as to whether the butter is overworked or not. If the trier is used, it should pull out smooth, not stringy or greasy, and should show just a bead of water on the back of the trier.

Fifteen points are allowed for color. The scoring may vary slightly with the judge and with the market demands. Faults such as a mottled or streaky appearance are due to overworking. Particles of curd or a mixture of different churnings will cause a heavy cut in points.

Ten points are allowed for salting, and here the quality of the salt tells the tale. Poor salt or too much salt means a lowering of the score. Only the



R. F.

e into ice ime and hat he oughts Great atter. o can but it to live 1 it is fuse to them LI.E.

ilking clean ny ar PSSALV ce can like a se she e con udder tail ut the and oesn't ich of of the leav nenc

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### Charlock Spraying.

Mr. E. B. Hadley's report on spraying for the destruction of charlock (wild mustard) on thirty two farms in Wiltshire, carried out for the Agricul band Committee of the County Council in 1900, ws that the most successful results were obtained -praying twice with 50 gallons per acre of a 2-persolution of sulphate of copper (2 lbs, to 10 us of water). A single spraying in most cases d at least three-fourths of the weed, and weak the rest; but the double spraying is declared save destroyed all the charlock in several nces. Mr. Hadley thinks that 60 or 70 gallons re would be better than 50 gallons.

perhaps like to try more than one. Don't think this extravagant. Be thankful you have such a boy. It seems out of place to have to say the boy should have the profit derived from his flocks. Yet there are men, and 1 am sorry to say know one, who lets his boy raise turkeys, pay for the feed he feeds them, then takes half his profit besides, the boy working hard on the farm at the time feeding and caring for his turkeys. Just such little mean dealing with your boys is what drives them to the city. They know what they earn there they can spend as they see fit. In traveling around, it is astonishing how many farmers one meets who want to hire good boys to work on the farm. These

same men, many of them, have boys in the cities either in Canada or the States. Why are they there? I am confident in most cases the father is to blame. I believe that very few boys brought up on a farm would have left it for the city if the right inducement had been held out to them to remain. There is no occupation more varied than farming, and it is an excellent plan for each member of the family to have some special line of work outside the usual routine.

### HERMIA 90 Hackney filly, three years old. First prize at Military Tournament and Horse Show, 1901. BRED AND OWNED BY R. BEITH, BOWMANVILLE, ONT,

best dairy salt should be used, which should be sifted onto the butter, whether in the churn or on the worker. There should not be a rough, gritty feeling when a piece of butter is placed in the mouth.

While only five points are allowed for *finish*, the ambitious person will want them all. If tubs or crocks are used, fill flush with the top and have that top perfectly smooth. Artistic (?) designs will lower the score. Use the best parchment paper (which

### THE FARMER'S ADVOCATE

should weigh 50 lbs, to the ream), and good tubs, and there will likely be no cut for finish. Prints should be put up in one-pound bricks and wrapped in moistened parchment paper. In order to keep the butter package clean, burlap should be used to wrap it, and thus avoid soiling of the box or tub.

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### The British Embargo on Canadian Cattle.

In the House of Commons, Ottawa, on May 9th, Lieut.-Col. Hughes, M. P., asked whether any steps had been taken to obtain permission from the Imperial authorities to land Canadian cattle at Belfast? There was no reason why, under existing regulations, that Canadian cattle should not be landed at Belfast and Dublin and slaughtered there. instead of Liverpool and then shipped back to Ireland.

Hon. Mr. Fisher, Minister of Agriculture, replied that the Imperial authorities had flatly refused to open up new ports for the importation of cattle. However, a strongly worded memorandum was on the way to England on the subject of the scheduling of Canadian cattle. He intended visiting England shortly, and would follow it up by the most strenuous representations against the injustice and unfairness of scheduling our cattle, the result of which is not only to affect our trade with Great Britain, but to cast an aspersion and almost a libel against Canadian cattle. He believed that it could be proved there has never been a case of contagious pleuro-pneumonia in Canada. The scheduling was done in 1892, upon the finding of English veterinarians that three head of cattle were affected, but Canadian veterinarians, after examining the lungs, declared it was not a contagious disease which afflicted the animals. Of the S00,000 cattle which had been sent to Great Britain since 1892, not a single case had been found, and if it had existed here, it could not possibly have failed to show itself. Upon the merits of the case, the Imperial authorities have not a leg to stand upon, and he proposed to present, in the strongest possible manner, the case of Canadian breeders against this injustice and the aspersion which it casts upon the health of our cattle

Mr. Henderson (Halton) thought a golden opportunity was lost for obtaining the abrogation of the regulations scheduling our cattle when in 1897 a preference in our market was given to British manufactures. The farmers had suffered a loss of \$6,000,000 in this one item alone.

Mr. Jabel Robinson said the Canadian farmers suffered severe loss owing to their cattle being slaughtered immediately upon landing, and the Canadian Government will be to blame if they do not make a great effort now to have the regulation removed. The Government should also take steps to induce capitalists to start abattoirs in this country, and this would pay better than to send the live cattle across

Our readers will await with great interest the result of the effort which the Minister of Agriculture is now making to have the embargo removed.

### Enriching Separated Milk for Calf Feeding.

There has been much controversy of late regarding the merits and demerits of separated milk as a food for calves. Our own views on the question are well known. With all experienced breeders, we are of opinion that as a food for young calves the natural milk of the cow is still without a successful rival; but, while freely conceding the superiority of fresh milk for calf-feeding purposes, we are of opinion that much economy might be effected and more remunerative returns obtained if properlyenriched separated milk were judiciously employed

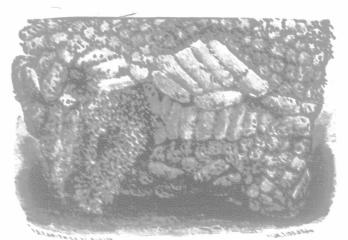
given when the animals are from 21 to 3 or 4 months. of age. A careful watch should be at all times kept upon the animals, and the quantity of cod-liver oil given so regulated that it is just sufficient to keep the bowels in free working order and not to scour or purge the animals.

Another point deserving of special attention is that only the best quality of oil should be employed. Cod-liver oil of poor quality and low price will be found very disappointing in comparison with the better article, even though the price of the lastnamed may seem very high when viewed in the light of the figure for which the poor qualities can be obtained. We have seen very unsatisfactory results from the use of cod-liver oils of cheap quality, and would warn our readers against the employment of such stuff when using the oil as a fat substitute in calf-feeding.—Farmers' Gazette,

### Bee Moths.

### BY MORIKY PETTIE

The bee moth, or wax moth, as it is more corctly called, is mentioned by Aristotle, Virgil. Columella and other ancient authors as one of the most formidable enemies of the honeybee. The apiarist of modern times does not need to consult the classics for knowledge of the work of this little pest. In the time of Swammerdam it was called the bec-wolf. The egg from which the destructive larva is hatched is laid by a dull or ashy-gray colored moth, from five-eighths to six eighths of an inch in length from the head to the tip of the closed



COCOONS SPUN BY LARV.E OF BEE MOTHS,

wings, and one and one-tenth to one and four-tenths inches from tip to tip of expanded wings. "The fore wings shut together flatly on the top of the back, slope steeply downwards at the sides, and are turned up at the ends somewhat like the tail of a fowl. The female is much larger than the male and much darker colored." They are seldom seen on the wing, except at dusk and on dark days, but may be observed lurking about the hives or stored combs, and if disturbed, "they open their wings a little and spring or glide swiftly away, so that it is upperfection of the state of the sta very difficult to seize or hold them." It is unnecessary to recommend their destruction on all possible occasions.

The wax moth's favorite place for depositing eggs is on the comb of honeybees, but if prevented from entering the hives by the bees, she leaves them in crevices under the cover or about the entrance, so that, coming in contact with the bees, they adhere to their legs or bodies, are carried into the hive, and reach the combs in this way. The eggs are perfectly round and y

seek a place "to encase themselves in the 0 - 2kyIn stored combs or in weak or que shroud. colonies they build their cocoons almost anywhere often piling them one on top of the other in and between the combs, until the whole hive becomes a mass of webs and cocoons. They remain in the pupal state anywhere from ten or eleven days to ive or six months, according to temperature and the season of the year, this being their normal way of passing the winter. The first brood of moths issues in late April or early May, the second in July or August, and there is often a third in hot weather in October. Still, it is never safe to leave combs unprotected at any time when it is warm enough for moths to fly.

Italian bees guard their hives much better than black bees; in fact, if each hive has a fairly well bred Italian queen, and especially if no hives are left queenless, there need be no fear of bee moths doing any damage in the hives. The only danger is with combs which have been removed from the hives and stored. There should be as few such as possible. Leave all extracting supers on the hives until the middle of September, when the danger is pretty Store combs in the hive or super to well past. which they belong, properly spaced. Select an even spot on the honey-house floor, or lay down a queenexcluder, with the rim upward, and place on it two thicknesses of newspaper, to exclude moths. Pile the supers on this, taking care to leave no crevices where a moth can crawl through, and cover the pile with paper, to make the top tight. Combs stored even thus carefully should be examined occasionally to make sure of their continued safety. If at any time found to be infested, they should be overhauled, the galleries torn down, and the worms taken out with a sharp-pointed knife, or they should be fumigated with sulphur or carbon bisulphide. As sulphur fumes do not destroy the eggs, carbon bisulphide is better. Place the combs in a barrel or box that can be closed up tight, and put a quantity of carbon bisulphide inside in an open dish. As it is a liquid which evaporates like chloroform when exposed to the air, the fumes soon fill the whole box and destroy every form of life within it. As soon as one dead worm can be found in the combs, you may know they are all dead. Even comb honey may be treated in this way without injury. Too much care can not be taken to guard stored combs against moths.

### The Battle Against Lice in Poultry.

It will soon be time to resume the war against A great many people are very sure that their lice. poultry have no lice, and perhaps they have not, to the extent of doing them much harm. Very few flocks are entirely free from them, and it is quite probable that they exist in small numbers wherever there are fowls. I find so long as my fowls are healthy and active lice cannot increase rapidly enough to seriously annoy them. On sick and injured or scaly-legged fowls, sitting hens and very young chicks, they thrive when the general flock is comparatively free. Quite frequently they are introduced by new fowls, and it should be made a practice to treat all newcomers to a good sprinkling of lice powder of some sort. This should be attended to as often as additions are made to the flock.

There are several methods of treating houses and fowls for lice. Some will have success with one system, and others will fail owing to lack of thoroughness in doing the work. Fumigating the house, when fowls are out, by burning sulphur in it is a very good plan to rid the house of such lice as hide in the roosts and the crevices of the walls. Most insect powders in the market are good, but I have used the Persian Insect Powder for and like it better than any other I ever tried. have succeeded in keeping my fowls free from lice by using this insect powder thoroughly in the house, nests, roosts, and on the fowls. Dusting with insect powder is no good unless thoroughly done. The way to dust a hen is to catch her by the legs and let her head hang downwards, hold ing her over a paper to catch the surplus powder, and give her a good dusting, letting the dust work itself into the feathers next to the skin. It is not a poison at all, but kills the lice by getting into their breathing apparatus, which is through openings in their bodies. The person doing the dusting should work the powder well into the feathers, and see that it goes to the "right spot." Kerosene is the commonest remedy for lice. It is death to lice, but it is very often used too sparingly. Of course, it will not do to use it indiscriminately on fowls, and especially on chicks. In nest boxes, on roosts and all places where lice are liable to hide it can be used freely. It is a good plan to apply kerosene once a month to the roosts, nest boxes, and sides of the henhouse. For the walls of the poultry-house kerosene emulsion is the best. It is made of hot soap suds with kerosene mixed by agitating it with a spray pump, and the latter implement is a splendid thing for applying it to the walls. It is far ahead of the brush, being more conveniently and more quickly done. A different warfare will have to be made on lice on chicks ; sitting hens ought to be dusted well when they are put on the nest, and the nest boxes well doctored with kerosene or lice paint of some kind, and it may be well to give the chicks a good dusting when taken off with the hen. The easiest. surest and quickest way to treat chicks for lice is when they are in their boxes in the morning before they are let out. They are all huddled together, and may be placed in box made for that

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In order to render it suitable for calf-feeding, separated milk must be adequately enriched by the addition of certain substances calculated to replace the butter fat abstracted in the process. Of such fat substitutes a number have been employed from time to time with more or less success. The best known, perhaps, of all these substitutes is ordinary flaxseed or linseed meal boiled into a jelly. We have seen separated milk enriched by this substance given to calves with most excellent results in many parts of the country, and have never known any losses worth mention among calves so fed.

In the use of separated milk enriched in this way, it is of prime importance that the milk employed should be in as fresh and sweet a condition as possible. Almost all the trouble resulting from the use of separated milk as a food for calves is due to the fact that the milk is not given until perhaps 24 or 30 hours after separation. If fed fresh from the mabold with the linseed, as already then cos that the calves fed upon chine and end. described, e.c. it will give pr good results as those to which fresh new mille is give

Another butter fut substitute which has been employed with intelesuccession dot tent parts of d i cent parts of the kingdom during the past tew or us is out liver oil. Experiments, stud out at several data are ultural schoolexcellent results. as a substitute for as a butter fat subst containencing with a d' borome accu-~11 the begin wit

ry small, and are deposited in little clusters. The larvæ from those eggs which hatch on the outside of the hive endeavor to crawl



Eggs (natural size, and magnified), larva, and moths.

or gnaw their way in and reach the goal attained by their more fortunate brothers, "As soon as hatched, the worm encloses itself in a case of white silk, which it spins around its body. At first it is like a mere thread, but gradually increases in size, and during its growth, feeds upon the cells around it." - Beran. Its food consists largely of beeswax, but it cannot subsist on that alone, and for this reason comb foundation or new combs containing no pollen are comparatively safe from its ravages. Its favorite combs are those containing pollen and the larval skinsleft by developing bees: i. c. combs which are in or have been taken from a brood chamber. As it feeds, it cuts through the comb a passage, or gallery, which it lines with a strong web of silk, reinforced with the orbitance by wax and its own excrement, making a tunnel In a migrad liver oil almost impenetrable to the stings of the bees upon has the exertised in whose domains it is intruding. The larva is also and taily adde to advance or retreat very rapidly through this soft the thread when attacked. While extending this gal-t layer lerves reverse any and extending this gallerv, a vever exposes any part of its body except its and tack, both of which are covered with stont ets, or scales, impenetrable to the sting of a I ndet tayorable conditions, the Larvae attain alished in about three weeks, stop eating, and

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### THE FARMER'S ADVOCATE.

purpose and the extra powder saved, but the dusting should be thorough. A few poultrymen rub a little lard on the heads and under the wings of chicks as a means of destroying lice. This is a very effective way to do it, but do not put on too much grease or you will have no chicks in a few days. FARMER'S WIFE.

### The Spring Chick.

The great difficulty poultry culture is compelled to overcome, until it is admitted into full fellowship with other branches of farming, is prejudice. The business must be admitted to the same opportunities that are extended to agriculture and the raising of stock. No man or woman can expect to succeed in a business for which they are unprepared and of which they are ashamed. The production of eggs depends upon the person managing the flock. In my childhood days it was no uncommon thing for a hen to steal her nest away and lay 11 or 13 eggs. become broody, and finally come back with a little brood of chicks. The same chicks would follow the hen until next fall. Those eggs were fertile and the chicks were strong, because they were the first and very often the only eggs the hen laid. If we could have had access to that nest and taken the eggs away as they were laid, the hen would have laid more eggs.

Every hen in a flock does not become broody when she has laid her litter of eggs, but she does quit for awhile, but nature soon supplies her with a new desire to bring out a brood of chicks, and in a short time you will notice the hen looking fine in appearance, and ere long she will be contributing her share towards filling your egg basket. Following this thought, we find, by removing all the eggs from the nests, feeding the right kind of feed, etc., we have brought our fowls up to the standard they We have all read of the hen in its now occupy. wild state in the jungles of India, where they laid only nine eggs a year. Now they have been brought to a state of civilization, where some of them have been known to lay over 250 eggs in a single year. The first nine Brown Leghorns i ever had produced nine eggs every day for two weeks, I give you this instance simply to show you what may be done.

Some breeds become broody sooner than others. I never had one of my Leghorns to set. I keep Plymouth Rocks and common hens for incubation Every farmer's wife has taken the old purposes. sitters off the nest and thrown them out of the henhouse with a vengeance, shut them up in a box where they could sit down comfortably, put a piece of an ear of corn-or, perhaps, only the cob-under them, and they would sit there as contentedly as if they had a dozen good eggs. A little thought and study would have taught a woman or man that what the hen needed was a good cooling off. have seen poultrymen have a light lath box and swing it up overhead in the poultry house, put old biddy in, and let her swing where the fresh air could strike her from all sides. Feed and water well, and she will soon be laying again. I do not have to use one of these boxes, as my chicks are non-sitters, and when the Plymouth Rocks want to sit, I give them eggs.

When you set your hens, endeavor to set as many at once as you can. It will require but little more time and care to look after four or six hens than it will one, and then one hen can brood from 20 to 30 chicks, if all the same age Do not disturb the hen during the first 48 hours, as it takes just that time to start the chick on its life voyage. Fair-sized hens could be given 13 eggs. but 11 is better, I find. On the twentieth day the chick has drawn the last nourishment from the egg, and is anxious to get out of its prison. It always breaks the egg at the largest end, because it is always less moist and more brittle at that end. Then, too, the head of the little chick is turned there for air, and the beak breaks through the rotten walls, finds more air, and presses hard and soon breaks away from all feeble resistance, and thus ends the period of incubation.

natural for them to want a variety of food and to be all day collecting a crop full. You may feed liberally of anything they like in the morning, repeat it at noon, and feed again at night; but they will not do nearly as well as when fed little and often. They will pick up plenty of insects in the spring if they are allowed to roam. Let them have free access to the garden and they will pick up all the meat they need. They will pick the insects that infest growing plants, but will not molest any of the plants until they become good-sized birds. FARMER'S WIFE.

### **Duck Raising.**

Ask farmers why they do not raise ducks, and nine out of ten will answer that they eat more than they are worth: and so they will if you do not understand feeding them. I keep four ducks and one drake, and feed them principally on roots during winter. If kept in clean, dry quarters, disease seldom attacks them. Apoplexy sometimes attacks grown ducks when they are very fat. If attacked by large gray lice on their heads, they will appear well, and suddenly turn over on their backs and die. Cramps occur from being chilled in cold water. I find it better to keep them away from ponds of water, and to arrange their drinking water so they cannot get in it.

Breeds.—The Pekin is the largest breed and also the most profitable to raise. The feathers, being a creamy white, are also worth more than dark feathers. I always select four of my best earlyhatched ducks and mate them with a two-year-old drake in December. They should not be closely related. It will pay to buy a good drake and give a few dollars for him. Your ducklings will be stronger, larger and easier to raise.

Care during winter.—I feed principally on roots (pulped), silage, steamed clover hay, and at night a good feed of meal moistened with sour milk, and once a week a little meat. They are kept in an open shed, with plenty of litter on the floor, their feed trough being arranged so that they cannot get into it, for ducks will, if not prevented, waste as much food as they eat. My way is to have it arranged so that they have to put their heads through between slats to reach their feed and also their drink. Always have water where they can go to it at all times. They will start to lay early in the spring and often lay until June or July. They will lay a hundred eggs each, with proper food and care. As soon as the grass starts, I allow them to run in the orchard, and feed only once a day, at night, a liberal feed of moistened meal. (They will eat any kind.) They come to their pen regularly for this. I then fasten them in until morning.

Setting.-1 set the eggs under hens, eleven being the number given, always setting two hens the same day, giving the ducks all to one when hatched. I set them away from other fowls. Keep feed and water before them, and see that they get off every day. I place an old sod turned upside down under the nest in a box, then three or four inches of chaff on top. Often every egg will hatch. Care of young.-The hen is placed in a large

coop with a yard six feet square in front of it, made of poultry netting one and one-half feet high and covered over the top with netting. This protects the young ducks from cats, dogs and other enemies. other fowls from stealing their You do not have to run out to your pen a feed. dozen times a day to see if your neighbors' cats or dogs are carrying off your ducklings. A trough is kept in the yard, one end used for feed, the other for water, with narrow slats all around for them to put their heads through between, the same as the large ones feed. I fill the trough twice a day with water, and feed five times a day: the first two weeks bread, soaked in milk, squeezed dry, or curd ; after that oatmeal, corn meal moistened with milk. some dandelions, onions, cooked vegetables, mixed with it-anything for a change. Try and keep them full, but on no account feed whole grain to ducks. When a month old they will do just as well without their old mother hen, so set her free and move the yard to a clean grassy plot. I find the orchard an ideal home for ducks. Never allow ducks in the hot sun. It is not good for them. There should always be a spot in their run that the sun does not shine on, and when not busy eating you can depend on them sleeping there in the shade. Feed just as well as you can, all they will eat up five times a day. Keep their appetites keen by continually changing their feed. Variety is the spice of life remember this while feeding ducks. Angleworms are excellent feed for young ducks. If you have no meat convenient for feeding, get the children to dig some worms for them. Twice a week is often enough to feed meat. Marketing, -When twelve weeks old they will dress from eight to ten pounds, and return a hand some profit. Then there are feathers, which usually bring a good price as well. There is no money made by letting a flock of ducks roam all over the farm all summer, half fed, shutting them up in the fall and stuffing them with corn, as is often done, to be sold for the Christmas trade, when there is plenty of poultry of all kinds on the market and the price is low. R. F.

### HORTICULTURE.

#### Timely Suggestions.

From the pamphlet recently issued by the Forestry Association, the following extracts are taken :

John Caldwell, of Virden, recommends the following, for ordinary prairie planting, as the best *Varieties.*-1, white elm: 2, Manitoba maple(box elder); 3, Russian poplar; 4, balsam poplar; 5, entropymend. () patient of the second s

cottonwood ; 6, white spruce. The Manitoba maple is probably our best-known

tree. Some have objected to it as not growing to a great size, as soon decaying at the roots, and as a great attraction to insects; but in the open country we are fond of it, though it seems to be unpopular as a shade tree in towns and cities.

as a shade tree in towns and cities. Preparing the Soil. — Whether for sowing seed or planting seedlings and cuttings, the ground should, a year before sowing or planting, be plowed, harrowed, thoroughly pulverized, and not a weed left. In the year following the preparation, the seed may be sown, either broadcast or in narrow rows. Narrow rows make less cultivation necessary than broad rows do. This is really the nurseryman's stage.

For ordinary farmers it is better to get seedlings or cuttings thus grown by the nurseryman. When the farmer has his ground ready, he should get seedlings a year old and plant these in rows three or four feet apart and say three feet from each other in the same row. After two or three seasons more, these may be again transplanted into the avenue, wind-break, or plantation.

wind-break, or plantation. Planting.—About the middle of May—always watch for Arbor Day—take the seedlings or cuttings to the well-prepared strip of soil, and with a dibble or sharp-pointed stake make a hole to receive the cutting. The cutting should be down six or seven inches, leaving two inches above ground. After setting it, the earth should be tramped hard about it.

Seedlings of the Manitoba maple should have the fibers cut from the roots and the taproot removed, and then be planted an inch deeper than when in the seed-bed where they grew. The roots of seedlings should be well spread out and the plants well watered when planted.

watered when planted. Cultivation.—The real work of successful tree growing now begins. Failures in the past in nine cases out of ten were from neglect after planting. Continued effort is the secret of success. The motto of the tree-grower is : Cultivate ! Cultivate !! This may seem unreasonable, may be called a "fad," This may seem to some to leave out the element of a benevolent Providence, but it is the sole road to success. Cultivation is essential to loosen a layer of soil on top to keep the moisture in the earth. When the soil is allowed to form a hard crust, or cake, it makes a good conductor to take the moisture from beneath. Cultivate as soon as the slightest crusting begins to appear. Weeds must be destroyed, else trees will not grow. A weed serves as a medium or conductor for carrying the moisture from the earth to the air. It has been said that two large weeds near the base of a tree will take away as much moisture as would keep the tree alive. Wisdom then says: Cultivate, and destroy the Of course, this patient care is only weeds. needed for two or three years. After a few years the trees thicken, the leaves spread, and the soil below the tree becomes so shaded that the baking by the sun does not take place, and the weeds cannot grow. The farmer then enjoys the beauty and protection of his avenue or wind-break.

Superintendent of the Brandon Experimental Farm reports on the Cost of Cultivation.—In the spring of 1895 a

ied. 1 m lice in the Justing oughly her by , hold owder, t work t is not g into rough ng the to the ot." ce. It sparscrimi n nest liable olan to

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d well boxes some good asiest. lice is rning. addled or that We notice that the first 36 hours the hen sits quietly brooding her chicks, never once offering them food or water. The first necessity, then, is not food, but warmth and a good dry place for the hen and her family.

Bear in mind their gizzards were given them to grind their food, and if you keep their crops full of soft food, you are apt to derange the system and invite disease. In my opinion, chicks should never be fed corn meal raw. If you must and will feed corn meal, mix it with boiling water, or, better yet, put a little salt and pepper with it and bake it well. find the best possible food for the first week is hard-boiled eggs chopped fine, shell and all, and fed to them in small quantities. Some farmers will think this is too expensive, but I find it pays for a tew chicks, and it would be just as profitable for a greater number. What would your wife think of you if you gave that newly-born calf a bundle of may or some corn meal instead of a pail of nice new andk right from its mother. The egg is the most atural food for the chicks and consequently the est. When they are a week or ten days old, feed hem some whole grain. Wheat is the best. Let nem have all the grit they need, and keep good, an, pure water always before them. It appears plantation of one acre in extent was placed near the main road, with two-year-old seedlings of the ashleaved maple and white elm. The object in undertaking this plot was to find the cost of planting and maintaining half an acre of trees until they were large enough to shade the ground and prevent the further growth of weeds. After four years, this plot has reached that stage, and in future will be kept clean with a few hours' work around the edges.

#### COST OF PLANTING HALF AN ACRE.

Growing and digging trees.	50 374 50 124
Total	

Superintendent McKay, of the Indian Head Experimental Farm, adopts the following plan for

Re-planting.— In taking up and re-planting the young trees the following plan was adopted: One deep furrow was plowed alongside the young trees, and the long roots cut by a second furrow, which enabled the men following to gather the trees in armfuls without any difficulty. The roots were carefully protected from sun and wind by being covered with damp earth as soon as they were taken up, and when required for planting were taken out in a tub half filled with thin mud.

In planting, a furrow is made with the plow, going twice in the same place, as deeply as possible, and the furrows as far apart as necessary. One, two or three men, according to the length of the furrow, follow, as soon as the furrow is made, and plant the trees by placing the roots in the bottom of the furrow and drawing the earth from both sides with the feet, and tramping it well.

The long taproot on young maples is cut off be-

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fore the frees are planted. The armful carried by men is first dipped in water and then well sprinkled with dry earth to protect the roots from sun and winds while they are being set out. As soon after planting as possible, the furrows are filled in by a plow and the planting is finished.

### QUESTIONS AND ANSWERS.

ist.-Questions asked by bona-fide subscribers to the Farmer's Advocate are answered in this department free.

end.— Our purpose is to give help in real difficulties : there-fore, we reserve the right to discard enquiries not of general in-terest or which appear to be asked out of mere curiosity.

Srd.—Questions should be clearly stated and plainly written, on one side of the paper only, and must be accompanied by the full name and address of the writer, as a guarantee of good faith, though the name is not necessarily for publication.

4th.—In reterinary questions, the symptoms especially must be fully and clearly stated, otherwise satisfactory replies cannot be given.

#### Veterinary.

### WORMS AND SWAMP FEVER. SUBSCRIBER, Lacombe, Alta.

Judging from the symptoms you submit, your animals died of swamp fever, the presence of the worms being accidental. The condition powder you mention is not injurious if used properly. It might be well in future cases when horses play out-which in other words means that they are overtaxed with work direct, or that the food given is insufficient to make up for the waste going on in the system, the result of work-that instead of turning out, they be fed some nutritious food in addition to the grass. While grass is Nature's restorative, an animal badly run down seems to need something additional, depending on the condition of the grass. Sulphur will not prevent swamp fever.]

#### LABORED BREATHING.

Will you kindly tell me what you think ails my colt? She is three years old: fed three times a day, four quarts of chop (wheat chop, three quarts: bran, one quart), and hay; just newly broken in this spring. I have noticed these two last days that when on the seeder she pants heavily. She has always been strong and healthy, and is in good condition. I began chop feed last week : was feeding whole oats and hay before. There is no cough or anything apparently wrong with her. When she pants, there is a perceptible trembling at the shoulder. L.G.N.

Manitoba

[It would be hard to say, without an examination, what is wrong with the mare. The work may be too heavy for her. If she had a heavy coat of hair, it might account for the labored breathing. Would advise having her examined by a competent veterinarian.]

#### A VARIETY OF AILMENTS.

What can I do for a young mare with rat tail? Same mare was driven hard when two years old, is weak in front tendons, slightly swells up in front legs after being driven ten miles or so. Swelling goes down in a day or two. Would it be a good plan to wear a support, such as is used on trotting horses? Would it be a good plan to bandage tightly with dry or cold water bandages after driving, to prevent swelling 3

3. I have another mare that is slightly affected in her water, and straddles while traveling. By doctoring the kidneys, will that cause her to draw her legs under her more and travel better, or is the habit permanent

4. Who should I address for the rules and regulations for entering stock at the Pan-American Exposition? YOUNG HORSEMAN.

lst. As a rule, nothing can be done for a rat tail except to get the tail of a dead horse, skin it carefully and get it tanned with hair on, and then exercise your ingenuity in attaching it to the dock. This has been done so skilfully in some cases as to appear quite natural, and horses with artificial tails have been sold to unsuspecting purchasers. 2nd. The best you can do for the weak tendons is to apply cold water freely and often, and apply coldwater bandages when in the stable, especially after a drive.

ABORTION IN MAKE - MAKE WITH MINED GAIT.

1. I have a mare, ten years old, about 4,200 lbs. weight : her sire was a Clyde horse : her dam a general purpose mare. Two years ago I bred her to a Percheron horse : she carried her foal eight months, then lost it. Last year 1 bred her to the same horse. She carried her foal five months, then lost it. Could you tell me, through the Veterinary columns of the FARMER'S ADVOCATE, the cause, if possible, or if it would make any difference if I should breed her to a lighter horse? I worked her on the farm at light work, but never any on the road while carrying her foal.

2. I have another mare, nine years old. Her sire was a French horse : her dam, a Warrior mare. She has a mixed gait. Sometimes she will trot, then break to a pace or gallop. All three in a very short distance. When she is in the blacksmith shop, she is very easily shod all but her right hind foot, which, when lifted up, sometimes she will jerk against her body: then, again, she will lay her full weight on the blacksmith. If I should breed her would her colts be subject to the same gait? THOMAS SLOAN.

[1. It is possible abortion in your mare on both occasions was caused by accidents of which you have no knowledge. Some mares acquire the habit of aborting, but in such cases they usually abort about the same term of gestation, while in your case once it was eight months and once five months. It is not probable that the stallion was accountable for the accident: still, I think if I bred her again I would select another sire. Watch her closely at about 5 months and also S months after conception, exercise gently every day, and feed on light, easily digested food. If she shows any symptoms of abortion, put her into a partially darkened box stall, give her 3 ozs. laudanum in 1 pt. water and repeat in 3 hours, and again if necessary, and keep quiet for a few days It is probable, by careful handling and watching, that she will carry her foal to the normal period.

2. I do not think there is anything wrong with this mare but nervousness. Her actions with right hind foot while being shod is likely only a habit. She is certainly more hable to produce a mixed-gait ed foal than a true-gaited mare would be; still, if you breed her to a square-gaited trotting stallion of strong individuality, it is probable he will overcome this tendency in the offspring.

### DISEASED LIVER IN COW

I lost a cow recently. The first I noticed wrong was a failure of manure, next morning her appetite failed and she commenced bloating. Thinking it to be impaction of the stomach, I gave her five or six pounds of salts in as many days, together with lineed oil and tincture aloes, and used injection freely. She lived a week. I opened her and found small intestines clean as far as injection reached, the food in the stomach in a soft, normal condition, no effect of physic showing. But the liver was colored, and the gall uncommonly large, weighing 3 pounds good weight. 1st. Is there a remedy for enlargement of gall: 2nd. How can we as farmers detect the difference between enlargement of the gall and impaction of the stomach or other irregularities of that nature. By answering above in the ADVOCATE you will confer a favor, as there are a number of cows attacked in this section.

[1st. There is no known remedy for enlargement of the gall bladder. The condition is not suspected until it has reached such a stage as to interfere with digestion.

2nd. As bile is an essential element for digestion, any disease of the liver or gali bladder that interferes with its secretion or entrance into the intestines will cause indigestion, the symptoms of which so strongly resemble those of ordinary indigestion, with, in many cases, impaction of the rumen and tympanitis, that a farmer cannot be expected to discriminate. In fact, the diseases may identical, but caused by different conditions. In indigestion caused by liver disease, the skin assumes a yellowish tinge, which is not always readily recognized. In most cases also, the animal does not thrive well for a greater or less time before actual symptoms of disease are noticed. It is not material for a farmer to be able to diagnose the condition. All that can be done is to treat for indigestion. Of course, if a person could tell that the liver and gall bladder were in the state you describe he would destroy the animal at once.

FOUNDER 1866

### HEAVES.

I have a horse twelve years old : was in about condition, and looked to be in good health. it has had a touch of the heaves for two years, but never very bad. As soon as I started spring work the horse lost his appetite and started coughing a dry, hacking cough and has got thin, and hair is dry and rough. I am feeding a few oats and letting him run on grass as much as possible. He will not eat much grain. Cough is worse when working. After standing a little while and then starts to work, he coughs. CHARLES LEAK,

The symptoms of heaves vary greatly in intensity, owing considerably to atmospheric conditions and the general state of the animal's health, and the food consumed. In many cases, without apparent cause, the symptoms become aggravated to such an extent as to render the animal practically unfit for work : and then, also without apparent cause, they frequently disappear until little or no inconvenience is caused. There is no cure for an established case of heaves. The symptoms can be essened by careful feeding and watering. The refusal to eat may, in your case, be partially due to the condition of his teeth. You should have his mouth examined, and, if necessary, his teeth dressed. Feed little bulky food, do not allow him a full feed, even of grass. Clean wheat straw is probably the best bulky food you can give. Feed good clean oats in considerable quantities, if you can get him to eat them. If he won't eat, of course he cannot work, Give water often, and a little at a time. Dampen everything eaten with lime water. The points to be observed with a horse having heaves are : Be sure everything given is of the best quality, dampen it with lime water, and avoid overloading the stomach.

### PHANTOM PREGNANCY,

I have a pure-bred sow, which, at her time for farrowing, showed signs of being with pig, and remained so until nearly a month after, when all appearance gradually disappeared. She is in good healthy condition; fed roots, bran, etc. Has had three litters, all strong and vigorous. What is the difficulty? Should she receive treatment before breeding her again? If so, what should the treatment be A. S. T.

We should think your sow, failing to get in pig at the last service, and having bred three litters before (regularly, we presume), as the time drew near for her to farrow, had she been with pig, took on that appearance from sympathy from former farrowings, or what in the human kind is called expectancy," having certain temporary physical effects, and which is called phantom, false or simu-lated, pregnancy. Would suggest that before breeding her again, she have a run at grass.]

### Miscellaneous.

LICE ON COW.

We have a cow which has had a lot of red lice. We saw in FARMER'S ADVOCATE about ashes, but they seemed to do no good. We steeped tobacco and rubbed the juice on, but they have not all gone yet. The cow seems to be in good heart and health. What next would you advise?

GEORGE DAWSON. When a cattle beast becomes badly infested with vermin, it is no easy matter to get them thoroughly cleaned up, because lice have great powers of hiding on parts of the body not readily treated with insec ticide. We have great satisfaction in using pyrethrum insect powder, repeatedly dusting it thoroughly into the hair wherever lice-infested. We believe, however, it is a more thorough plan to apply one or other of the sheep dips or cattle washes advertised in our columns. They are prepared to destroy vermin, and full directions for use accompany every package sold. They are usually kept by

3rd. I cannot answer this question without know ing the nature of the affection you mention, but my opinion is that her uninary organs are not diseased, but the gait you object to is natural. She evidently is an animal of weak physical development.

4th. Frank A. Converse, Pan-American Exhibition, Buffalo, N. Y.]

### ATROPHY OF THE LIVER IN PIG.

I had a pig that had been ruptured before it was weaned. I altered it and put bowels to their place and sewed it up. It has always been healthy and well, to all outward appearances. I fattened and killed it, and upon opening 1 found the liver covered with little sacs of water. There were some on the diaphragm and intestines too. The liver was not more than half-grown. What is the cause? Would it affect the pork ? The pork does not seem to be affected : that is, there are no saws on it.

#### SUBSCRIBER

[The condition of the genital organs and the operation mentioned had no connection with the state of the liver. The strophy shrinking of the organ was doubtless the result of a bronie inflummation, from which the strung t is hard to exthe presence of the substantion plain. We sometimes describe lar in certain parasitic tioned centained fluid o appeared meilthy, it is not started of do not think t

### BLACK-QUARTER IN CATTLE.

1st. What is black-quarter in cattle?

2nd. 1s it infectious, or what causes it

3rd. Is the meat poisonous? Will it cause death if eaten ?

4th. Does it effect the whole carcass or just the quarter it is found in ?

### SUBSCRIBER.

[Black-quarter is one of the forms of anthrax, a rapidly fatal and infectious disease, due to a special bacteria, the Bacillus anthracis.

It prevails in rich, damp pastures, in cattle and swine, and is communicable by inoculation to other animals and to man. Black-quarter is sometimes anthrax with extensive engorgement of a shoulder, neck, breast or side, is most frequent in young and rapidly-thriving animals, and runs its course so quickly that its victims are usually found dead in the field as the first indication of anything amiss. If seen during life, there are the general symptoms of plethora, fever, with trailing on one limb, stiffness, and excessive tenderness of some parts of the skin, to be promptly followed by swelling of such parts, with vellow or bloody oozing from the surface. Recovisies are the exception, and are slow and

or can be secured from the addresses given in the advertisements. The application should be thorough from end of nose to tip of tail and to hoofs. It should be repeated in a week in order to catch the new brood just hatched.]

### Chicago Markets.

Chicago, May 15,—Cattle, 1.500; hogs, 18,000; sheep, 8,000, Receipts for the week so far,compared with a week ago,show a decrease of 4,500 cattle, a decrease of 13,500 hogs, and an increase of 10,500 sheep. Compared with corresponding time a year ago, show an increase of 7,000 cattle, an increase of 17,500 hogs, and an increase of 13,000 sheep. increase of 13,000 sheep. Receipts at Chicago Stock-yards for 1901 to date, including

to-day's estimate, with comparative figures

1901. 1900.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111	<ul> <li>Hogs, 2,920,757</li> <li>2,992,881</li> </ul>	3 13 1 1 - 13 1	The Art and Artes.	A COLORADO
Increase.	86.322	11.161			4,963	3,514
Decrease			72,124			

Beef Cattle, -A small bunch or two that were good enough

Beef Cattle. – A small bunch or two that were good enough to meet the requirements of an exporter sold steady, at 5.25 to 5.45. The bulk of the small receipts were of the kinds that sell around and below 5c. The yards will perhaps be pretty well cleared by the close of the week, but the fact is there is a dull tone to the trade at present. Butcher Stock. <sup>2</sup> The market was rather dull,not many fresh arrivals. Buyers had light orders, and trade did not show strong tone. Good beef cows and heifers suitable for export sold at a range of \$1.0 to \$1.85, chiefty at \$1.25 to \$4.50; good cows of fair quality, showing fat, \$3.00 to \$4; medium, \$3.15 to \$3.40. The bull market holds steady, at \$3.20 to \$4.35, according to quality; bolognas and feeders, \$3.15 to \$3.75; medium and light, \$2.40 to \$3.

Hogs Mixed and Batchers'. - There was a very bearish sentiment to the trade to day. In the mixed trade \$5.70 was a stopping point, the bulk of strong weight mixed landing around \$505, with an extreme range of \$500 to \$5.65 for bulk. A good quality mixed, running largely to butcher weight, sold at \$565 to \$567.

to \$567. Sheep and Lambs. - Eccepts were moderate, and the mar ket was steady to strong. Wooled lambs sold at \$4.75 to \$529. harzely at about \$5 to \$5.00. Export wethers quotable at \$4.52 to \$4.55 ; yearlings and rood fat sheep, \$4 to \$4.55 ; ewes, \$3.50 to \$1. Freeding ewes, \$3 to \$5.50 ; feeding lambs, shorn, \$3.65 to \$1.

MAY 20, 1901



### THE GUILD OF THE BRAVE POOR THINGS.

#### BY NORA ARCHIRALD SMITH.

"It is to be called the Book of Poor Things, mother dear. It's a collection—a collection of Poor Things who've been hurt. like me; or blind, like the organ-tuner; or had their legs or their arms chopped off in battle, and are very good and brave about it, and manage very, very nearly as well as people who have got nothing the matter with them. Father doesn't think Poor Things is a good name. He wanted to call it Masters of Fate, because of some poetry. What was it, father?" ""Man is man, and master of his fate," quoted the master of the house.

of the house. "Yes, that's it. But I don't understand it so well as Poor Things. They are Poor Things, you know, and of course we shall only put in brave Poor Things, not cowardly Poor Thing:

If you ever happened to meet a little lad named Leonard, who lives in the pages of Mrs. Ewing's "Story of a Short Life," then you will remember, with misty eyes and an ache in the throat, that chapter wherein the hero directs from his wheeled chair the ruling and printing and illuminating of his Book of Brave Poor Things.

The child has been the victim of an accident, which not only makes him a cripple, but racks him with distress and pain, and, under the nervous strain of the affliction and the consequent "spoiling," he has become capricious, tyrannical, a torment to himself and to others. Fortunately, Fortunately, when things have reached a climax of wretchedness, his wise mother comes to the rescue, and, appealing to the boy's courage, his sense of honor, and to his passionate interest in soldiers and soldierly qualities, teaches him that, though a military life can never now be his, he yet may be "a brave cripple." The ancestral motto of the family, *Latus sorte men*, is so interpreted to the child that he grows to feel it a matter of duty to be happy with his fate, and begins to think that perhaps there are "lots of brave afflicted people, and perhaps there never was any body but him who wasn't so."

Leonard has a touching interview with a hero of the Victoria Cross, in which, true to his great life-interest, he is intent on finding out whether, if he is very good and patient about a lot of pain in his back and his head, that would count up to be as brave as having one wound if he'd been a soldier; and whether being ill in bed might count like being a soldier in a hospital.

"I suppose nothing—not even/if I could be good always, from this minute right away till I die—nothing could ever count up to the courage of a V.C.?" questions the boy wistfully; and the brave, tender-hearted wearer of the priceless bit of iron answers tremulously, "God knows it could, a thousand times over !

### THE FARMER'S ADVOCATE

"It is important," says Sister Grace, "to guard against anything like a sentimental glorification of suffering : and, to shut out such a possibility, the Guild must have a knowledge of the conditions of life of all its members, and must be ready to do everything that can be done to minimize their actual distresses." It is not a charity, however, and does not give relief; it is merely a friendly organization of afflicted persons meeting frequently. with leaders who are interested in their troubles and who can give strength and courage to bear them more bravely. Where relief must be given, it is done through other societies, and so there is no asking nor giving here, save in the things of the spirit.

The Guild of Brave Poor Things was organ ized in 1894, and so great a need has it apparently met, and so well has it taken advantage of the "together" spirit of the age, that it now has six branches, with a membership of more than five hundred. It is a pitiful thought that there are so many persons in one locality who belong by right to such a club, but even more pitiful would it be were nothing done to lighten their double woes of poverty and disease.

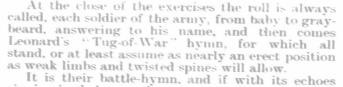
The various things necessary to a successful conduct of the Guild are thus stated by Sister Grace

1. To visit members in their own homes and establish personal links between the workers and members

2 To hold regular meetings at stated intervals for games, singing and social intercourse.

3. To bring, as far as possible, technical classes and suitable lectures within the reach of members of the Guild; to arrange for periodical excursions, concerts, etc., for them, together with any other means of widening their necessarily restricted lives.

The Guild's rules are few and simple: merely that the name, motto and hymn shall be the same in all branches, that flags shall always be used in the decoration of the rooms, that the soldierly



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ringing in their ears they can go back to their poor homes and quit themselves like men, if they can fly their scarlet banner with its joyous motto, if they can fight the battle of life with courage, heavily weighted as they are, then indeed may they be called the bravest army that ever went forth to warfare.

### "On the Thames."

The hour is evidently one drawing towards eventide, as is shown by the lengthening shadows and by the expectant attitude of the cows as they listen for the call into the sweet pasturage of their own home meadow close to the water's brink. Milking time over, they will lie amongst the long grass and buttercups all through the summer night, to awake at early dawn for another day of blissful inactivity by sweet Thames-side, all unconscious of the beauty of their surroundings, or that they themselves add the living touch, failing which no picture of mere still life can be perfect. On one side of the picturesque, well-wooded little island is a man fishing from the inevitable punt. without which no artist could dare attempt to portray even the quietest nook of loyal old Thames, whilst to one who knows it well, the very sound of the frothing water as it falls over the weir near by seems to come as an echo by merely looking at the deceptive sweep of quiet water, which is all our picture shows of the big downpour for which it is gathering its forces. There are rivers and rivers, and although the

historical Thames, even if they only know it on paper, must always have a charm for every loyal subject of England's Sovereign, in whatever part of ('anada their lot may be cast, yet with what pride of ownership can they point to the big rivers of our

Dominion, with sheer precipices for banks, with torrents for cascades, and with a wealth of water-power which the whole civilized world might envy. Still, each has its beauty, and each its source of usefulness. H. A. B.

#### **Recipes.**

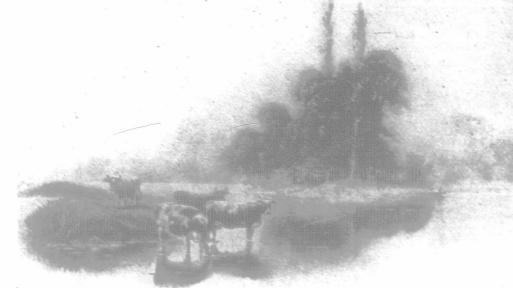
### DANDELIONS WITH EGGS.

Pick over, wash and drain six quarts of dandelions, throw into two quarts of boiling water, add one tablespoon salt and one-quarter teaspoon soda; cook forty-five minutes: drain in a colander, turn in a large serving dish, cut across several times: have ready hard-boiled eggs, remove shells and halve lengthwise place the halves over the top of the greens : melt two large tablespoons of butter, pour over the greens and eggs, add a dash of pepper, and serve.

### DANDELION SALAD.

The white, crisp leaves of the dandelion make excellent salad, without cooking. Tear apart one quart of the crisp leaves, using the white

parts ; mix through the leaves two tablespoonfuls of horse-radish root grated : dress with the following mayonnaise : one egg, three tablespoons water, two tablespoons vinegar, butter size of a nutmeg half saltspoon salt, half tea spoon made mustard one dessertspoon sugar; boil five minutes, stirring constantly; when cold, pour over the dandelions.



### "ON THE THAMES."

virtues of loyalty and prompt obedience be culti vated in every way, and that records be kept of the name, address, and condition of each member. And what are the proceedings at the Guild

meeting ? you ask

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onard, and the Book which he thought out so carefully, suggested to Sister Grace the formation in the Bermondsey Settlement, South London, of the Guild of the Brave Poor Things. It is an association of men, women and children, of any creed or no creed, who are crippled, blind, or maimed in any way. Any one is eligible for membership if thus attlicted, and if, at the same time, he is resolved to make a good fight in life. Latus sorte mea-Happy in my Lot-is the watchword of the Guild: and its hymn, the one which Mrs. Ewing's hero called the Tug-of-War hymn, because, at the military chapel which he often attended, the soldiers sang the verse beginning, "A noble army, men and boys," with such tremendous impetus and vigor that, after a brief contest, they invariably pulled away from the organ and the whole choir.

The deepest purpose of the Guild, says Sister Grace, is found in this verse of the hymn:

Who best can drink His cup of woe. Triumphant over pain ; Who patient bears His Cross below. He follows in His train.

It is by "awakening the heroic that slumbers in every heart," and by teaching its members that the courage to bear and the courage to dare are really one and the same, that the Guild lives up to its motto: for its founder believes that it is not enough patiently to accept one's life-burden, but that one must also learn to bear it cheerfully

It is inherent in the very idea of the Guild that it should bring light and brightness into cold, gray lives: and so, in every room in which it meets, the walls are draped with the Union Jack, and high above shines out in brilliant scarlet letters the whichword, Latus sorte mea. There are badges. combership cards, and banners, all in red, the solet's color, and the true military spirit is insisted

These may be held either in the afternoon or evening, and so great is the interest in them that many of the members gather at the entrance long before opening time, reminding one of that even in Capernaum when the sun did set and when they brought unto Him all that were sick of divers diseases, and all the city was gathered together at the door.

There are blind people here; there are deaf mutes: there are paralytics who can drag themselves along, and others who must be pushed in chairs or perambulators; there are as many phases of distress and deformity, perhaps, as there are persons, and all ages are represented; but there is much good-fellowship and constant helpfulness.

Tables are set in the Guild room, where books and papers and magazines are scattered for those of seeing eyes; there is a piano for the blind; there is a lending library from which books may be taken home; there are toys for the younger children; and there is always a painting table, for it seems that mottoes and pictures to color are in great demand the year round

Many of the blind women bring their knitting or other handiwork, and chat quietly together as their busy fingers move; the men fall into conversation over the games and pictures, and thus the grace of friendship is added to these lives of deprivation and suffering.

In many of the Guilds weekly half-hour lectures on science, history and travel are given, and seem to be greatly enjoyed; and always when games and lectures and conversation are over there is the ever-delightful singing practice. If any of the members are found to have special musical ability, or a knack at recitation, they are encouraged to help in entertainment, and considerable talent is thus discovered and a new value given to the selfestimate of the possessor.

### ENGLISH SPRUE AND EGGS.

Boil till tender, in salted water, two pounds of asparagus, cut in inch pieces, drain thoroughly: beat two eggs, whites and yolks separately, adding a tablespoon of cream to the yolks, half as much butter and a seasoning of pepper and salt: mix with the asparagus, stir in the whites, and shake the saucepan over the fire till hot : serve in a deep dish with points of toast.

#### ASPARAGUS SALAD.

Boil the asparagus, not too tender. lay in cold water to preserve its plumpness; serve with a dressing of oil, vinegar, pepper and salt, mixed in the following manner : to four tablespoons of salad oil add one teaspoon of salt and a dash of white epper; beat well, add slowly, drop by drop, two tablespoons of vinegar.

### " Fate."

Two shall be born the whole wide world apart, And speak in different tongues, and have no thought Each of the other's being, and no heed; And these o'er unknown sens to unknown lands Shall cross, escaping wreck, defying death; And, all unconsciously, shape every act And bend each wandering step to this one end That, one day, out of darkness, they shall meet And read life's meaning in each other's eyes.

And two shall walk some narrow way of life So nearly side by side that, should one turn Ever so little space to right or left. They needs must stand acknowledged face to face ; And yet, with wistful eyes that never meet. With groping hands that never clasp, and lips, Calling in vain to ears that never hear. They seek each other all their weary days And die unsatistied - and that is Fate ! Susan Mare Son

Susan Marr Spalling

### THE FARMER'S ADVOCATE

### THE QUIET HOUR.

### The Bondage of Fear.

# "Think not I dread to see my spirit fly Through the dark gates of fell mortality. Death has no terrors where the life is true Tis living ill that makes us fear to die."

Someone has described a picture of a churchyard through which there is a path on which a little girl is walking. A dying man, who is leaning against the gate-post, says. "Do you not fear the church-yard path?" "It is my way *home*," is the fearless answer.

There is one subject in which we all have reason to be interested. Young and old, rich and poor, the happy and the miserable, are all steadily moving on to the same goal - death. As this is a matter of such great importance to every mortal, would it not be as well to think about it a little? Some people never seem to realize that death is in their path. Death is not in any of their thoughts, and yet, no matter how full of life they may be, they will hardly escape the last enemy. Other people do think of death. and are terribly afraid of it. Surely there are many to-day who, through fear of death, are "all their lifetime subject to bondage." The slavery of fear ! What right have we to be in bondage to an enemy which our Master has conquered ? Those who know nothing of God may well tremble when stepping out into darkness: but when a Christian submits to the bondage of fear he dishonors the Lord who has given him the victory over death. We are often very inconsistent : singing joyful hymns about the life after death and our desire to reach that better world, professing to believe that the pleasures of this life are not worthy to be compared with those of the next, and all the time clinging with frenzied clasp to the smallest possibility of a chance of prolonging our life here. We shrink with shuddering dread from the meeting with our God. It is not only a physical shrinking from a physical death-that is natural enough; and even our Lord, in Gethsemane, seems to have endured that human dread. The fear we should try to overcome is deeper. more like spiritual fear. If all, or nearly all. our pleasures, aims and ambitions are centered here, of course we shall prefer to stay here. Where the treasure is the heart will be. Think of a man who has devoted all his talents, time and oppor-tunities to the making of money. What has he to look forward to in the next world? The money he has so persistently raked together must all be left behind, and he cares for nothing else! What are heavenly joys to him? Spiritual riches are not to his taste, and he only pretends to think they are worth more than the gold and other treasures he must leave behind. It has been said : "Not to fear death is a slight to Him who made it our special punishment. Not to desire death is an indifference to Him whom we can only reach by passing through it.

This life of ours doth but our life begin, Is but outside the porch of the abode : And death the going home—the entering in, The stepping forth on the wide world of God.

This slavish fear of death is very common, I am afraid. Think of the panic a report of diphtheria or smallpox in our midst produces! Where is the fearless trust in God which is so vividly described in that beautiful 91st Psalm? "Thou shalt not be afraid for the terror by night. nor for the arrow that flieth by day; nor for the pestilence that walketh in darkness; nor for the destruction that wasteth at noonday. A thousand shall fall at thy side, and ten thousand tht hand: but it shall not come nigh This glad fearlessness is promised to those thee." who abide under the shadow of the Almighty. If we do not possess it, then surely our faith must be very weak. If we really trusted God He could not fail to be our "refuge and fortress. But even the physical pains of death are often anything but terrible. Dr. Hunter expressed what might have been the wish of many thousands of dying men and women, when he said: "If I had strength to hold a pen I would write down how easy and pleasant a thing it is to die." Think of all the people whose last hours you have witnessed or heard of, and I feel sure you will confess that the soul very, very often departs from the body peacefully and painlessly. How young the still, cold face looks! The tired lines and wrinkles are so often smoothed out, and the look of peace and rest ought to stop at once the common habit of applying the epithet "poor" to those who have left sorrow and pain behind, "Poor!" Surely we are poor, not they.

religious feelings. As Robertson (says: "Every day Christ's servants are dying modestly and peacefully-not a word of victory on their lips, but Christ's deep triumph in their hearts. They die, and the world hears nothing of them, and yet theirs was a true victory. They came to the battle-field and found no enemy to fight with no foe was in sight.

"Weep not for death ! The fount of tears is sealed. Who knows how bright the inward light To those closed eyes revealed! Who knows what holy love may till The heart that seems so cold and still?" HOPE.

# THE CHILDREN'S CORNER.

### "Convalescent."

I wonder whether any of you children understand. by experience, the delights of convalescence. The long, weary days of sickness and pain are over. You are out of bed at last, and find yourself the pet of the whole family

The little girl in the picture must have been very ill, for she still has a trained nurse in attendance. I fancy she must be an only child, with every luxury within reach, except the luxury of a jolly lot of brothers and sisters. What do you say? Don't you think young companions are worth more than picture-books? I do, C. D.

#### PRIZE COMPETITIONS.

I want everybody to try and win a prize this time everybody, at least, who; is under sixteen



the hospitals at home. The little children and othe

the hospitals at home. The little children and other senates of those same places often saw her. Whenever, is among them all she scattered cheer as well as flowers. "So that, although her reign was one of great programes not these that made all her people love her, it is Christian character, her never ceasing kindness, her han and because she sympathized with her people; for whe had sorrows, she sorrowed with them, and when they have she was also. Such," concluded my uncle "was joyous, she was also. Such," concluded my uncle, " was of Victoria, " the model mother, wife, and queen," "Ah," said the Frenchman, " they had reason to be

"Ah," said the Frenchman, "They had reason to love her: but she has surely won her reward and exchanged her earthly crown for one of glory." Then he arose and went off deck, leaving us to think that his last opinion was certainly correct. Alvinston, Ont, MARY COLHOUN (aged 1a).

#### Ingle Nook Chats.

MY DEAR GUESTS,

Of course, we are all duly sensible of the loveli. ness that everywhere surrounds us, but we shall not wait to comment upon it now, as I want to have a "chat" this time in real earnest. First, I extend a hearty welcome to all who have honored us by visiting our Nook, but I have an especially snug corner for the old friends of puzzle days. "Me-Ginty," little man, I was very glad to hear from you. Studying, are you? For one of the "learned" professions, or to be an educated farmer? Happily the latter is not so rare as he formerly, was. genie," I applaud your ambition to "keep up with the times, in order that you may assist your "bonnie laddies" in the future. It is somewhat of a task to keep pace with the shooting of the young ideas nowadays, is it not? And parents too often overlook the necessity of so doing. I reciprocate your good wishes, "Eugenie," and shall be pleased to hear from you again.

J. F. M. I have not the selecting of the prizes sent out. When you win, you must take your chance like the rest. "Old Maid," the W. P. B. can do very well without your contribution till the contest is over. To you and all others who have asked admission to the Nook. I repeat that there are no restrictions as to age or otherwise whosoever will may come.

E. A. C.-The Ingle Nook certainly seems to interest a far greater number than the puzzle column did, although I frequently receive regrets that it was discontinued. The aim of the ADVOCATE being to please the majority, I think the present course is the more successful one. "Whitfield," the contest herein announced is another form of puzzle. I hope all who have expressed themselves as interested in that art will show their appreciation by sending in good lists in answer to it. "Minnie May" and "Madge," I, too, believe that the information gleaned while working at literary puzzles is a fair reward for the labor bestowed upon them, or, to borrow a quotation :

# " The reward is in the doing. And the pleasure of pursuing Is the prize the vanquished gain.

I enjoyed your pleasant notes; am pleased to find my guests growing more genial. J. L. F. is a very clever little girl, but I find cleverness very common among you Maritime people. have only spoken to a few of my guests, and I find space growing small, so I must forego the pleasure of further conversation, and direct my attention to

#### OUR COMPETITIONS.

Time is up for No. IX., at result will appear next issue; meanwhile, I hope you : all at work on "Cana-dians who have become famo.... Prove, now, that a prophet may be honored in his own country, by sending in some good essays. The very general response to Contest IX, induces me to give another of a somewhat similar na-ture. Therefore, for Contest XI, we offer three prizes for the three best lists of names sout in an war to be following

"Weep not for death?" The but a tevel stands y pairs appressed in the ral rest, A solution tope trabels. The moop blue on the shunds ring desp Is searcely where? Whetefore weep?

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Why are we so sorry for those who die? Why are we so afraid to die ourselves? Do we think God can take care of  $a \in I_{1}(\alpha)$ , but not  $th(\alpha)$ . Do we really think that those who have passed within the really think that those who have passed within the vertices of the processed by tear and that we who linger here, represented by tear and care are used? Since sentimental timisticus are very eager to die representation and designed with the facty they

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### "CONVALESCENT."

years of age-for our subject is both interesting and easy. Prizes will be given to the writers of the best essays on "Interesting Animals." You can describe animals you have known, or those you have heard or read of. The competitors will, if possible, be divided into classes according to age. All MSS. must be posted before the end of June. Write your name, age, and address on the back, address is as usual : Box 92, Newcastle, Ont,

COUSIN DOROTHY.

### PRIZE ESSAY III. "How Queen Victoria Won the Love of Her People."

Her People." We were in mid-Atlantic, aboard the Seagull—my uncle and myself. It chanced one morning that we were on deck very early, and were the only passengers there, save a Frenchman, who sat reading a newspaper. Soon, however, he threw it down, and exclaimed, impatiently: "It is full of 'The Death of Yietoria,' that English queen. Of course, this paper states that then, to my uncle he, but why so much. I don't see!" And, then, to my uncle he suid : "You are English, monsteur, explain this, please." So to please him, my uncle began: "Wietoria had been well taught by her mother in her early performed enough good acts through her long reign to show us this was no idle resolution. "All through her life she lived up to the highest Christian deals, and, although exalted in position, was always humble in the sisk and needy ones among them. Many of these people were know that it was the Queen who was ministering to physics. Yet they loved her tor her Kindhess, and in afterwards they be opened to see her as 'Her Matesty, they loved her interval." "We toria thought not only of these common people how

<sup>1</sup>B) Victoria thought not only of these common people, but of them dl. She remembered her sodders in foreign lands, and did not forget to send a word of prace to their brave leaders and themselve. Ner did she forget the wrounded soldiers in

three. Therefore, for Contest MI, we offer times the three best lists of names sent in answer to the following puzzle. This contest will be open until July 5th. In case of ties, neatness, spelling, etc., will be taken into consider ation. Sign name (or pen name) and address to your work, as well as to any communication which may accompany it. (basely on arding against mistakes.

CONTEST XL. Our Library (partly phonetic).

Makes and mends for first-class customers. - Pilgrims bend low to kiss. The dwellings of civilized beings. Is worn on the head. Not one of the points of the compass, but inclining ds one of them. 5. Not one of the points of the contowards one of them.
6. What an oyster heap is likely to be.
7. An American manufacturing town, 8. – An internal pain.
9. An important part of the body, 10. – A worker in precious metals.
11. A mean dog.
12. – A manufactured metal.
13. Is very fast indeed.
14. – A share expression.

- 13. 15 (Vr) fast indeed,
  14. A slang expression,
  15. A kind of linen,
  16. Very painful companions
  17. U npleasumt on your foot,
  18. Certainly not a dwarf,
  19. Not far off,
  20. Our Company and the
- 20. Our Corner, and the sound made by a domestic animal

There, my puzzleistic friends, is something to amuse you The suid main has been throwing dust in my eyes for the pa-half hour, so I shall say "good night." Yours cordially, Ingle Nook Chais, Pakenham, Ont, THE Hosties,

Two Things to Learn.

Learn these two things: Never be discouraged because good things get on slowly here, and never fail daily to do that good which lies next to your hand. Do not be in a hurry, but be diligent. Enter into the sublime patience of the Lord. Be charitable in view of it. God can afford to wait : why cannot we, since we have Him to fall back upon ? Let patience have her perfect work and bring forth her celestial fruits. Trust in God to weave your little thread into a net, though the patterns show it not G. McDonubl.

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MAY 20, 1901

### THE FARMER'S ADVOCATE

### The Farmer's Wife.

Our last home topic, "Why Some Women do Not Get Married," has brought out of the corner of an old desk a clipping yellow with age and written at least twenty-five years ago, but which, if only for the inspiration of the thought conveyed in the last verse, we are pleased to reprint for the benefit of the readers of our Home Magazine. Twenty-five years is a long stretch of time, and it has borne witness to much steady progress and to many changes changes which cannot have been without their significance to the farmers' wives of our land. There have been wonderful improvements in farm machinery. The work has been eased to the worker in field, barn, and stable; in fact, "the changed conditions of agriculture," we are told, " have prac-tically revolutionized the work on the farm." Combination and organization have solved many a problem for the farmer of to-day which sorely puzzled the farmer of over two decades ago.

How about that part of the homestead presided over by the wife and daughters? What has been done to oil the wheels of the domestic machinery for them? Doubtless, amongst the more farseeing, and perhaps more wealthy. of the farmers, due consideration has been given to the subject. But is it so everywhere? How many of the wives still have to make the best of badly-planned and poorlyequipped dwellings, when a remedy might easily be found? We venture to think that the same enlightenment which has borne such fruit when practically applied outside, would be as fruitful of results if brought to the test of home application, and is it not as true an economy to save labor within as without doors-to save the strength of the willing worker within, as it is to save the strength of the willing worker without? And then, to bring us back to the subject of our last home topic, has not the recognition of the need to have a more thought-ful consideration for the "weaker vessels" of the farmer's homes an important bearing upon the whole matter? There would be, perhaps, fewer mere home drudges like that wonderful Lucindy. but the young farmers of Ontario would have for their mates women of intelligence and culture, who need not be the less admirable housekeepers or homemakers because, the details of their work having been made more easy of arrangement, they could have leisure to cultivate their minds, beautif their surroundings, and, by keeping abreast with the educational opportunities of the day, be not only more companionable to their husbands, but wiser and more judicious mothers to the children God may give them. From homes so mothered the daughters would be less likely to be attracted away into the so-called wider sphere of a city life: nor

would the sons consider the honorable "profession" of a farmer not good enough for them. But it is time to introduce to you

### An Ontario Farmer's Wife of Five-and-Twenty Years Ago.

Up with the birds in the early morning. The dewdrops glow like a precious gem : Beautiful tints in the skies are dawning. But she's never a moment to look at them The mean are used in the skies are she are

- The men are wanting their breakfast early. She must not linger, she must not wait. For words that are sharp, and looks that are surly. Are what men give when the meals are late.
- Oh, glorious colors the clouds are turning

- Oh. glorious colors the clouds are turning. If she would but look over hills and trees. But here are the dishes, and here is churning. Those things must always yield to these : The world is filled with the wine of beauty. If she would but pause, and drink it in : But pleasure, she says, must wait for duty Northested work is committed sin Neglected work is committed sin.
- The day grows hot, and her hands grow weary: Oh, for an hour to cool her head, Out with the birds and winds, grow cheery ! But she nust get dinner and make her bread. The busy men in the hay-field working. If they saw her sitting with idle hand, Would think her lazy, and call it shirking, And she never could make them understand.

- They do not know that the heart within her, Hungers for beauty and things sublime. They only know that they want their dinner. Plenty of it, and 'just on time.' And after the sweeping, churning, and baking. And dinner dishes are all put by. She sits and sews, though her head is aching. Till time for supper and 'chores' draws nigh.

- Her boys at school must look like others, She says, as she patches their frocks and hose.
  For the world is quick to censure mothers For the least neglect of their children's clothes.
  Her husband comes from the field of labor, He gives no praise to his weary wife, She's done no more than has her neighbor, Tis the lot of all in country life.
- But after the strife and weary tussle,
  When life is done, and she lies at rest,
  The nation's brain, and heart, and muscle,
  Her sons and laughters shall call her blest.
  And I think the sweetest joy of heaven,
  The rarest bliss of eternal life,
  And the fairest crown of all will be given
  Unto the wayworn farmer's wife.

-Name of writer unknown H. A. B.

### Pretending to Know Everything. A FAD OF THE TIMES.

One of the most absurd fads of the day is the prevailing mania we all have for affecting to know everything. It is the fashion to be wise, and we are solemnly attitudinizing in the misfit role of savants. No subject is sacred any longer to the specialist, and if we have not gone to the bottom, we have at least skimmed the cream off the pan of knowledge on every topic.

Nowadays it were better never to have been born than not to have seen the last play, read the last book, heard the last thing. If we have not universal culture, we have what has been aptly described as culturine, and not one in twenty knows the difference.

So we rave over classical music and go to hear Paderewski, and applaud in the wrong places. discourse about feeling and values in pictures, when we can't tell a chromo from a lithograph. We go into ecstasies over old Chelsea and Royal Worcester, when the only way we know it from brand-new china is by the price tag: and we pay down good money to see foreign plays, by foreign actresses, in a language of which we do not understand one single word, and try to maintain an expression of enjoyment while we suffer agonies of boredom

No one has the courage to say "I do not know" any more, though there is nothing in the world more charming than intelligent ignorance. What a pleasure it is to describe a play, a quaint bit of scenery, a historic spot, or recount a tale or legend to some one who is not acquainted with it, but whose quick fancy follows, enraptured, your every word

Alas, that delight is denied us now. Everybody has been everywhere and seen everything, or, if they haven't, they pretend they have. If Diogenes were on earth now he would not go about with his dark-lantern, seeking an honest person. He would be on a still-hunt for a man or woman who would let him tell them something they didn't know.

If it is a mistake for a man to pretend to universal knowledge, it is nothing short of deliberate suicide for a woman. The most casual observer must have noticed that the girl with an artless air and an inquiring manner, who is a good listener and has little knowledge, can marry seven times to the clever girl's once. She never swells the ranks of the girl bachelors. No man in his senses ever desired to espouse either an encyclopædia of facts or an arguing machine.

What he looks forward to is the pleasure of enlightening the ignorance of a dear little creature and having her look up to him as the fountain of wisdom and light. When a woman begins every sentence with "John says," it is a guarantee of domestic felicity so strong you can draw money on it at the bank.

Desirable as the dissemination of information is, there's entirely too much of the good thing now. It has left us no listeners. Ignora nce is still blissin other people-and among the most agreeable of our acquaintances are those who do not know it all and who will let us tell them the things we know.



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### MAY 20, 1901

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### NORWOOD BRIDGE POULTRY YARDS. EGGS FOR HATCHING.

EGGS FOR MATCHING. OF White Wyandottes, White Rocks, Houdans Core \$2.00 for 13; Mammoth Bronze Turkeys errors, \$2.00 for 10; and Pekin Ducks ergs, \$1.50 for 11 Eggs guaranteed to be fertile. See report of shows for prizes won. Sole agent for Manitoba for the Smith's Seal Leg Band guaranteed to stay on. Write

Joseph Wilding. Prop., Winnipeg, Man.

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It you are going to the Old Country, or sending for your friends, apply to our nearest railway or ticket agent, who can supply outward and prepaid tickets at lowest rates

Steamers leave Portland, Maine, every Saturday; St. John, every Wednesday; New York, every Wednesday and Saturday.

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am offering for sale a number of nice young sov Lam offering for sale a number of nice young sows in farrow, also three nice lengthy September boars, good ones. I have now spring pigs from large ma-ture sows of the real bacon type, and sired by two grand prizewinning boars, that are bred right up in "the purple. Unrelated pairs and trios supplied, torrespondence solvited, Ask for catalogue, Address J. A. MCGILL, NEEPAWA, MAN.

TWIN GROVE FARM. Young Yorkshire pigs, stock boar two years old, and car old sow. Prices still lower. Also Buff P. Rosk coskerels. Write

J. S. LITTLE, Proprietor, Oak Lake, Man.

#### GOSSIP.

THE FARMER'S ADVOCATE.

### J. H. Stanton has been placed in charge of the Neepawa Creamery for the season.

The National Creamery Co., Winnipeg, is turning out 800 lbs, of butter a day.

His Majesty the King recently decorated Mr. William Tait, his land steward, with the Victorian Order. Mr. Tait, who manages the Royal farms at Windsor, has, as our readers know. been very successful with the late Queen Victoria's cattle at the various shows in Great Britain.

Stallions are nearly all at their route stands, in good condition for the season's work. Erskine Lad, Aberdeen and Pacha were seen at the Beaubier stables, Brandon, recently, and from the inquires made, the stud demands on these noted horses are likely to be heavy.

A visit to the abattoir and cold storage plant of Gordon & Ironsides was made by the Ad-vocate staff recently. The daily capacity is 200 head of cattle and 000 head of hogs. Owing to the scarcity of home-fed beeves, this firm have im-ported and were slaughtering beeves from Toronto—"bringing coals to Newcastle with a vengeance!" every Westerner will say.

The Spring Stallion Show at Regina brought The Spring Stallion Show at Regina brought out several pure-breds, and a good crowd of people. The scrub or unpedigreed stallion is now debarred from competition at the Regina Show, so that improvement in the horse stock is the aim of the society, which goal they will surely make. In Clydesdales, Glenfarg, owned by R. J. Kinnon, was first; Boydson's Heir, Brown Bros.' horse, second; and Mutch Bros.' Prince Stanley had third place. Sunny Alto, owned by Jas. Churchill, led the Standard-breds: Jno. Forrester's Madward being second; General Thorpe, owned by D. Wilkie, getting third place. third place.

The J. Y. Griffin Co. are about to enlarge their pork-packing plant to accommodate the rapid in-crease in their business. A recent visit showed a consignment being made ready for Nelson, B. C., smoke-houses. A number of hogs were noticed in the pens, of Berkshire, Yorkshire and cross-breds. The present capacity is 150 hogs an hour. Oak wood is used in the smoke-houses in the curing process. Nearly everyand cross-oreds. The present capacity is for hogs an hour. Oak wood is used in the smoke-houses in the curing process. Nearly every-thing in the way of offal is used in the Griffin Packing House, one product being fertilizer. The egg-packing season is just about through with this firm.

with this firm. Alex. Galbraith has been successful in dis-posing of several of his stallions recently shipped in to Winnipeg in charge of his manager, Jas. Smith. That good colt. Broxden, mentioned in our "gossip" of April 20th, goes to a Holland syndicate, who will stand him in the district where his good feet, limbs and general get-up will no doubt be appreciated by the horse-breed-ers of that district. Thomas Morrison, Elgin Avenue, Winnipeg, gets the big German Coach-er, whose size, toppiness, style and clean limbs will make him acceptable as a sire to anyone desiring that breed. Jas. Cannon, Cypress River, gets Jock of Odebolt, a Prince of Wales colt. This colt is a thick, well-muscled fellow, good over the back and kidney, and a good mover. His breeding and conformation should render him a moneymaker. Confident Squire, the brown Hackney colt, whose knee and hock action and toppiness have been a pleasure to horsemen, goes to Stewart Bros., Neepawa.

MORE HIGH-CLASS SHORTHORNS AND A CLYDES DALE STALLION FOR MANITOBA.

DALE STALLION FOR MANITOBA. Mr. James Yule, manager of the Prairie Home herd and farm of Hon. Thomas Green-way, at Crystal City, who had been for some time laid up by a severe illness, has, we are glad to know, so far recovered as to have been able to make a trip to Ontario, and has suc-ceeded in securing a half-dozen choice Short-horns to add to the already strong herd at Prairie Home. From Capt. T. E. Robson, Ilderton, he secured the grand young red-and-white bull, Ribbon's Choice, which won second prize as under a year at the Toronto Industrial Exhibition last year in an exceptionally strong class; also second at London. He is a remark-ably smooth, stylish, evenly-fleshed bull, with straight, true lines and first class quality, and is nicely bred, being a son of imported Blue Ribclass : also second at London. He is a remark-ably smooth, stylish, evenly-fleshed bull, with straight true lines and first-class quality, and is nicely bred, being a son of imported Blue Rib-bon, bred by Campbell, of Kinellar, and of Rosehill, a Kinellar Rosebud, by imp. Gold-tinder's Heir 2nd. The smooth, thick-fleshed 6-vear-old cow. Frieda, second-prize winner at Toronto last year, a daughter of the sweep-stakes bull. Abbotsford, was included in the purchase from Capt. Robson: also the charm-ing roan yearling heifer, Lavinia's Blossom 3rd, son of imp. Indian Chief, and of the good old Scotch-bred Syme family. This heifer was in the prize list at Toronto hast year in perhaps the strongest class ever seen there, and won over several imported heifers, though young for the class. She has wonderfully developed since then, and is a massive, thick-fleshed heifer of grand quality, with well-sprung and deep ribs and the best of skin and hair. Lizzie Lorne, a handsome red 8-months heifer calf, by Roseberry, a son of imp. Blue Ribbon, was selected from the same herd. From the herd of J. & W. B. Watt, Salem, was secured the grand red 2-year old heifer, Matchless 25th, by imp. Royal Sailor. She was the second prize heifer in the great class of yearlings at Toronto last year, and at London the following week was placed first over her half sister that won first at Toronto. She com bines size, quality and conformation in high degree, and is a hard one to beat. An excep-tionally good red yearling heifer from the herd of Arthur Johnston. Greenwood, was also se-lected. We are not, at this writing, apprised of thers in the shipment. Mr. Yule made his selections in short order. Knowing what he wanted, and he know-a good one when he sees it. He also purchased from J. M. Gardhouse, Highfield, and heaves a good one when he sees it. He also purchased from J. M. Gardhouse, Highfield, and heaves a good one when he sees it. He also purchased from J. M. Gardhouse, Highfield, and heaves a good one when he sees it. He also purcha

# LARGE USERS OF **CREAM SEPARATORS**

Every large user of separators in the country is now using and buying De Laval machines exclusively. Nearly all have tried various "cheaper" separators and cast aside thousands of dollars' worth of them. The same thing is true in Europe and throughout the world.

The dairy or farm user may well profit by experience of such large users. The difference between a superior and an inferior separator is just as material on the farm as in the creamery. But the small user may be hoodwinked or fail to appreciate the difference, while the big user can't long everlook it.

Send for a 20TH CENTURY catalogue and see for yourself what the big users of separators are doing.



The Modern Way to Destroy Sheep Ticks is By the Use of



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Good Butter

Windsor Salt makes good butter because dissolves easily and quickly; and, too, because the atter receives the full goodness of each flake of the Salt and the delicate flavor of Jure Salt.

Windsor Salt. Family Knitter Cheapest, Simplest, Best. Price, \$8.00. Write for circular adas Knitting Machine Company,

DUNDAS. ONTARIO.

# **INSTANT LOUSE KILL**

WHEN you shear your sheep, dust the lambs with INSTANT LOUSE KILLER. It's a powder which the sun cannot readily evaporate. That's why one application is all that is necessary. It sticks in the wool and kills the ticks that hatch after the first application.

For these reasons it is better and cheaper than a dlp: besides, there is no slop, no muss, no danger.

POUND CAN, PERFORATED TOP, 35 CENTS.

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THE CREIC MANFC. CO'Y, W. R. ROWAN, MGR. P. O. BOX 603. WINNIPEG, MAN.

### Yorkshires. Boundary Herd of Poland-Chinas and Model Tamworths.

Two choice fall littlers ready to ship-one from the 1st prize yearing sow at Winnipeg and Brandon Fairs in 1900, Also a few choice boars fit for service. and sows ready to breed. Address

FOR SALE: Three scales due to farrow in April and first week in May. Also booking orders for spring pigs sired by blondike, Gebt Dust, and Hay field Pride, and out of such model dams as Lady Sanders, Copper Queen, Ecolys Star, and Carry Nation, d prices that will off them

King Bros., Wawanesa, Man. W. L. TRANN. CRYSTAL CITY. MAN

PLEASE MENTION FARMER'S ADVOCATE

### THE FARMER'S ADVOCATE.

### MAPLEWOOD HACKNEY

PROPERTY OF FREDERICK C. STEVENS, ATTICA, NEW YORK

### Champions of two continents.

The magnificent LANGTON PERFORMER, the peerless CLIF-TON 2nd, and the sensational FANDANGO, all in service for the coming season.

### Magnificent young Stallions and Mares for Foundation Stock.

sired by the above champions, and out of mares equally famous, now offered for sale. MAPLEWOOD is truly "THE HOME OF THE CHAMPIONS.

E. T. Gay, Manager, Attica, N. Y.

FOR FURTHER FARTICULARS, ADDRESS :

# The Horses that made Janesville Famous.

For twenty years past Janesville has been associated with all that was high-class in the line of horses, and the name of "GALBRAITH" is familiar as a household word to every horse breeder of any note on this continent. The undersigned respectfully invites an inspection of his present stock of

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### CLYDESDALES,

which are believed to be fully equal to the best ever main-tained during the palmy days of the basiness. Ample size, superior breeding, great individuality, moderate prices, and the best of guarantees, are among the inducements offered buyers. An assortment of Per-cherons, Shires Suffolks and Hackneys also on hand. The only place where the best of all the breeds are because The only place where the best of all the breeds can be com-pared alongside each other. Prominent **prizewinners** at the recent International Live Stock Show at Chicago. Send for catalogu



talogue. Branch barn at Woodstock, Ont., in charge of S. P. Thompson, agent. Call and see the horses there.





## GOSSIP.

T. S. Cooper, Coopersville, Pa., will sell at auction, on May **30**th, at his farm there, 97 im-ported Jerseys, personally selected on the Island. They are said to be an exceptionally read well-states good collection

Hon. Sydney Fisher, Minister of Agriculture, sails from Montreal for England on May 18th, to be absent about two months. He will make an effort to have the scheduling of Canadian cattle removed, will interview the War Depart-ment rc the purchase of Canadian horses, visit the Glasgow Exhibition, and make purchases of some pure-bred stock for the Experimental Farms of som Farms,

Mr. Robt. Miller, Stouffville, Ont., announce in an advertisement that he will soon sail for Great Britain, and will be pleased to accept commissions to import pure-bred stock for those desiring such. Mr. Miller's experience and training well fits him for making good selections, as he is regarded as one of our very best judges. See the ad, for his English ad-

The entire flock of Cotswold sheep belonging to the estate of the late Mr. Robert Garne, Aldsworth, Northleach, England, is advertised in our pages for sale by private treaty. This is probably the oldest Cotswold flock in existence, and has been one of the most successful in prizewinning at the Royal and other leading Enclish shows English shows

Inglish shows. Mr. W. D. Flatt, Hamilton, Ont., in ordering change of advertisement, writes: "I have for sale, privately, the red yearling imported Short-horn bull.Singapore, got by the Marr-bred Missie bull. Golden Star, by Golden Ray, and out of the Cruick-shank Secret cow, Sensation 2nd, by the Sittyton-bred Vice Chancellor, Golden Star was first and champion at the Royal Northern Show last year. We have also for sale a very good Canadian-bred bull fit for service.

Show last year. We have also for sale a very good Canadian-bred bull fit for service. The Western live stock interests are being well looked after by J. A. Turner, Millarville, Alta, as far as the introduction of new blood for horse-breeding is concerned. His recent importation included the good Clydesdale mare, Princess Patrick, a winner at Minnesota and Chicago, and several stallions, notably Prince of Claremont, by Simon Yet, a colt with lots of quality and good limbs: Diamond Prince, a black, the making of a stylish draft horse, and Lord Graham, a compact, strong boned fellow, both of an age, are desirable colts : Charming Boy, by Lord Charming is descended from Prince of Wales, his full brother was a Toronto and London winner in 1900; Charming, out of a fine dark brown colt, by Lord Charming, out of sonsie Lass, the Clydesdale matron so often a winner for the Sorbys in the Eastern show-rings. It is hardly necessary to say that Mr. Turner banks on this colt's future. Charming mare as Lord Grandeur. Sales have been good: Clifton, a Graham Bros, (Claremont) horse, three years old, going to Chas, Perrenond, Ochrane, Alta; General Duke, the second prize two-year old at Winnipeg last year, to A son, Elbow Park Ranch, Calgary, Prince Grandeur, a second prize horse at Winnipeg and the Hackney, Woodlands Performer, a

### BOOK REVIEWS.

Any book reviewed in this department may be ordered through this office, at the price stated.

Ed. Geers' Experience with Trotters and Pacers. Admirers of the light harness horse may all take off their hats to Ed. Geers, the trainer, fitter and driver, to whom the world is largely indebted for the low records attained for the pacer during the last decade. Ed. Geers has produced a book, not all by his own pen, but the thoughts, experiences and advice contained are his, and are given with a modesty and hone-ty that makes him your friend at once. The work gives a general description of the most noted horses he has driven together with a brief history of his life in Tennessee as far as it concerus his professional career. It also conaring for horses during preparation and the racing campaign. It is clearly brought out that Geers relies most on the horse and himself. and least on mechanical contrivances. The book is a valuable acquisition to the horse liter ature of the day, and should be in every light horseman's library. It is not only helpful, but entertaining, liberally illustrated, and attract ively and bond-somely bound. The price of the book is 82 or for which it can be obtained through this office. We will grant it as a pre-mum for second 4 new yearly subscribers a the FYRMER's Above VEE of SLOUCACE.

FOUNDEL 1886

### REMARKABLE SUCCESS

### Of a New Catarrh Cure

A large and constantly increasing mage American people are catarrh sufferers, entirely the result of our changeable c entirely the result of our changeable eleman but because modern investigation has clearly of en-that many diseases known by other name are really catarrh. Formerly the name catare was applied almost exclusively to the common re-al-catarrh, but the throat, stomach, liver, basher, kidneys and intestines are subject to catarrhal dis-cases as well as the nasal massages. eases, as well as the nasal passages. In fact, wherever there is mucous membran

In fact, wherever there is nuccous membrane there is a feeding ground for catarrh. The usual remedies, inhalers, sprays, done tes or powders, have been practically failures, as far as anything more than temporary relief was concerned, because they simply dry up the nuccous scretcons, without having the remotest effect upon the block and liver, which are the real sources of catarrhal diagness.

It has been known for some years that the radical cure of catarrh could never come from local applica-tions, but from an internal remedy, acting on the blood and expelling the catarrhal poison from the system.

A new internal preparation, which has been on the

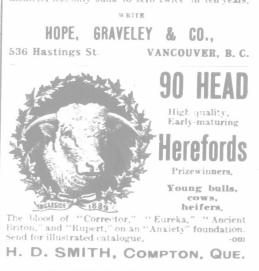
A new internal preparation, which has been on the market only a short time, has met with remarkable success as a genuine, radical cure for catarrh. It may be found in any drug store, sold under the name of Stuart's Catarrh Tablets, large, pleasant-tasting lozenges, composed principally of antiseptic ingredients, Eucalyptol, Guaiacol, Sanguinaria, Hy-drastin and similar catarrh specifies. Dr. Ainslee, in speaking of the new catarrh cure, 98ays: "I have tried the new catarrh remedy, Stuart's Catarrh Tablets, upon thirty or forty pa-tients with remarkably satisfactory results. They clear the head and throat more effectually and last ingly than any douche or inha'er that I have ever seen, and although they are what is called a patient medicine and sold by druggists, I do not hesitate to recommend them, as I know them to be free from yous them with entire safety."

cocaine and opiates, and that even a fittle child may use them with entire safety. Any sufferer from nasal catarrh, throat or bronchial trouble, catarrh of the stomach, liver or bladder, will find Stuart's Catarrh Tablets remarkably effective, pleasant and convenient, and your druggist will tell you they are absolutely free from any injurious drug. Advt

### British Golumbia.

Anyone thinking of farming in British Columbia should write for descriptive pamphlet of farms for sale in the Lower Fraser Valley—the garden spot of the Province.

We have compiled the largest and most complete We have compiled the largest and most complete list of farms, orchards, cattle-grazing and garden lands, and fishermen's attotments, in the Province. It has been very carefully selected, and we have a personal knowledge of every property described. Prices range from \$3.00 per acre to \$250,00 per acre, and in extent from 1 acre to 1,000 acres. In the Lower Fraser Valley, and on the coast lands around Vancouver, we rarely have more than a month of frost and snow at outside, and the ther-mometer has only sunk to zero twice in ten years.



The oldest, largest and most complete collection of Clydesdales in America. Established in 1371, and has been the champion stud eve. since,

GRAHAM BROS., CLAREMONT.

PIONEER IMPORTERS AND BREEDERS OF

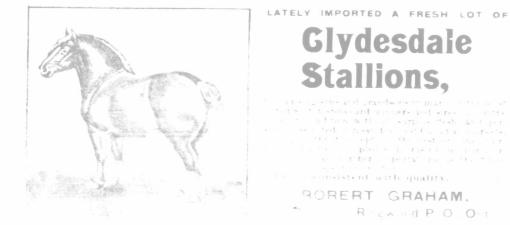
Clydesdales and Hackneys.

THE HOME AND HEADQUARTERS OF THE WINNERS.

#### 7 FIRST AND 9 SECOND PREMIUMS. INCLUDING 7 GRAND SWEEPSTAKES.

At the recent leading Canadian shows - Toronto and Ottawa - being three times the number won by all competitors. Our animals are of immense size, good quality and action. Prices moderate. Terms to suit customers. Visitors cordially insited. Corre-spondence solutied. - om

### CLAREMONT IS 25 MILES EAST OF TORONTO, ON THE C. P. R.





Glydesdale

Stallions,

ensistent with quality.

RORERT GRAHAM.

Please Manager in Summer's Advocate.

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LONDON, ONT.

### Clydesdales and Ayrshires

Imported and how e bred. Also Dorset Horned heep and the leading aristics of positry. In ROBERT NESS & SONS, Howick, One.

# Imp. Clydesdale Stallions

h well known stres as Str. Leerard (33). Roberts 7136, Prince Mexander 889 2 Imp Shorthorn Bulls.

4 Balls Imp in Dams 2 Canadian bred Balls.

21 Imp. Cows and Heifers. 7 Canadian-bred Cows and Heifers GEO. ISAAC & BROS., BOMANTON, ONT.

### FOR SALE.

### THOS. GOOD.

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### R. Mitchell & Son,

### Barlington Jct. Station, Nelson, Ontario.

Large herd of Scotch and Scotch-topped Short hores of the most popular Werdenshire tribes, moluding 4 imp, bulls, 12 imp, cows and heifers, Miso a number of home-bred yearling and two-year-old heiters, and 7 good, thrifty home-bred bulls, from twelve to fifteen months old. Write for cata-

### Shorthorns FOR SALE:

Yearling and two-year-old Shorthorn heifers, in calf to imp. bull.

### THE NODREATE.

G. A. BRODIE, Stouffville Station, Bethesda, Ont

SHORTHORNS: We are offering for side S tealls, from S months to a course but to Mange 2nd and Stattish Bard. Mo-chest asserts brief to Baron - Heir.

ROBT, GLEN, Owen Sound, Ontario-

### WILL IMPORT

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ROBERT MILLER. Stouffville, Ontario

#### The Massey-Harris Works in Toronto

### THE FARMER'S ADVOCATE.

### DF. 1986

MAY 20, 1901

GOSSIP.

THE CANADIAN COMBINED SPORTHORN SALE

AT CHICAGO.

the most extensive importers, in the last few years, of high-class Shorthorns, selected by competent judges from many of the best herds in Great Britain, and have retained at the bead of their herds Scotch bred bulls of the very highest character in breeding and individual

excellence. One of the objects of making this sale at the present time is, doubtless, to meet the keen demand from the great grazing and corn-grow-ing States of the West for superior cattle, and Chicagois chosen as the place of disposal owing

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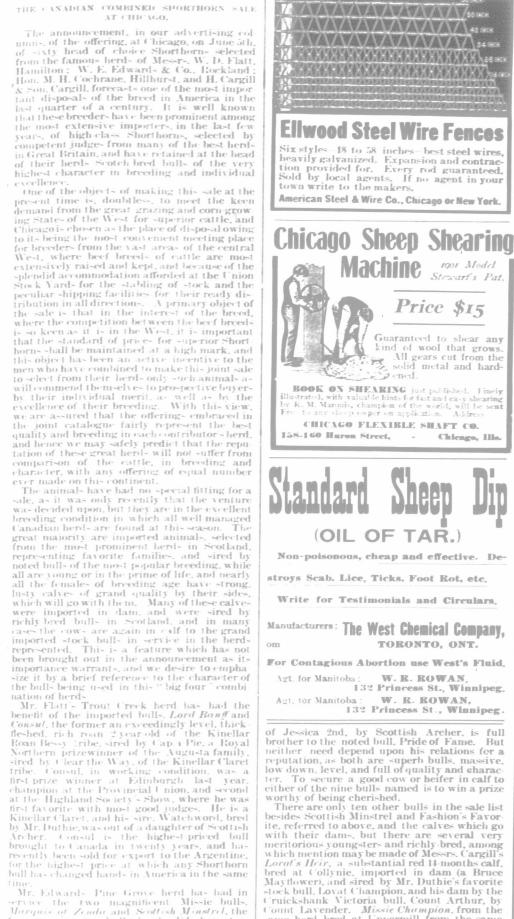
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Guaranteed to shear any kind of wool that grows. All gears cut from the solid metal and hard-Car ened. **BOOK ON SHEARING** just published. Finely ustrated, with valuable hints for fast and easy shearing R. M. Marquis, champion of the world, will be sent to any sheep exper on application. Address

CHICAGO FLEXIBLE SHAFT CO.

158-160 Huron Street, - Chicago, Ills. (OIL OF TAR.) Non-poisonous, cheap and effective. Destroys Scab. Lice, Ticks. Foot Rot, etc. Write for Testimonials and Circulars, Manufacturers: The West Chemical Company, TOBONTO, ONT. om

For Contagious Abortion use West's Fluid,

Agt. for Manitoba: W. R. ROWAN, 132 Princess St., Winnipeg.

Agt. for Manitoba: W. R. BOWAN, 132 Princess St., Winnipeg.

of Jessica 2nd, by Scottish Archer, is full brother to the noted bull, Pride of Fame. But neither need depend upon his relations for a reputation, as both are superb bulls, massive, low down, level, and full of quality and charac-ter. To secure a good cow or heifer in calf to either of the nine bulls named is to win a prize worthy of being cherished. There are only ten other bulls in the sale list besides Scottish Minstrel and Fashion's Favor-ite, referred to above, and the calves which go with their dams, but there are several very meritorious youngsters and richly-bred, among which mention may be made of Messrs. Cargill's Lorad's Heir, a substantial red 14-months calf, bred at Collynie, imported in dam (a Bruce Maytlower), and sired by Mr. Duthie's favorite stock bull, Lovat Champion, and his dam by the Cruickshank Victoria bull, Count Arthur, by Count Lavender. Missie Champion, from the same herd, bred at Uppermill, from the same sire and a Missie dam, and L5 months old, is a straight, smooth, even calf of excellent quality. Scotch Pine, also in the Cargill contribution, a Collyne. Scoleh Prine, also in the Cargill contribution, a roan, about the same age, was bred at Collynie, is a typical Scotch bull, of the Kinellar Rosebud sort, low down, sappy, and like making a cracker. He is a son of Scottish Champion, for cracker. He is a son of Scottish Champion, for which Mr. Duthie paid \$1.650 when 7 months

(S ADVOCATE.) of good size, superior quality, and choice breed character. Having lost her calf when it was a few days old, a capital roan 3-months bull calf of the Cruick-hank Lavender line will go with her, a son of imp. Prince Louis, of the Sittyton lancaster sort, and the cow being bred again will make this a very attractive lot. Rosebud 2nd, a sweet, smooth, red, 4-year-old cow, bred at Kinellar, and got by the Cruickshank bull. Clan Alpine, with a strong concentration of Brawith Bud blood in the three top crosses of her pedigree, will have her sappy, deep-ribbed, broad-backed bull calf, by imp. Prince Louis, sold with her, and she being in calf again will give the buyer three strong strings to his bow. Abeautiful 4-year-old Brawith Bud cow, Golden Days 4h, by the Marr-bred Capt. Ripley, will have a handsome heifer calf (imp. in dam) by her side, sired by Scottish Fancy. The red 7-year-old Sittyton Victoria 67th, with a red c. c. timp. in dam), and got by Lovat Star, will be a tempting bt. Mayflower 4th, sold at the Chicago sale last August for \$2,60, and her 9-months bull calf at foot, will also be well worth looking after. A Princess Royal, in the roan 2-year-old Pouline 4h, is a young mother, beautifully bred, with a c. c. at foot by Bapton Favorite, one of the best bulls in Britain. Pouline 3th, a smooth, straight, roan yearling, by the Duthie-bred Squire Nonpareil, by Pride of Morning, is another choice Princess Royal. Among a half dozen other handsome and well-fleshed yearlings is Sotland's Sunshine, a Duthie-bred red daughter of Deane Willis' Bapton Conqueror, bought for Collynie at a big price and sold for a bigger to go to Australia. Her dam, a great cow, was sired by Scottish Archer. Vain Beauty, aroan Kilblean Beauty, also bred at Collyne and got by the same sire, has for grandsire Velvet Jacket, a Sittyton Nonpareil, and for g. g. sire, Touchstone, the sire of the Highland Show champion. Corner Stone. The Trout Creek contingent comprises several other cows and heifers of equal merit, as to qual

several other cows and heifers of equal merit, as to quality and breeding, with those above mentioned.
Reference can only be made to a few of the Cargill females, prominent among which is Meadow Perfection 2nd, a show heifer that will be hard to beai, thick-fleshed, level, and true in her lines. She is a roan that passed the 2-year-old mark on the first day of the century; bred by Col.Munro, of Perthshire, and imported last year; was sired by Craibstone, of the Bessie family, that produced the great show bull, Sign of Riches, and a son of the grand old William of Orange, and has seven straight top crosses by Cruickshank bulls of exceptional merit. Mond 4th, a big, deep-fleshed, roan 3-year-old, of the Matilda tribe, that will make a grand cow for someone, is a daughter of the Marr-bred Ruler, a well-bred Rosemary by Craibstone, and her dam by the Kinellar-bred Walter Scott, of the Miss Ramsden sort, which produced Brave Archer, Scotland's Crown, and many more good ones. Four Cruickshank crosses appear in her pedigree, and she is well along in calf to the grand imported bull, Golden Drop Victor. (Charn 5kth is a rich roan Marr-bred Clara, a yearling daughter of Silver King, of the 1900 Duthie-Marr sale, for 185 guineas. Corul Countess, a roan 3-year-old, bred by Mr. Fletcher, Rosehaugh, and sired by Watchfire, son of Watchword, a Highland Society first-prize winner, has a pedigree built on the same foundation as the Cruickshank Duchesses of Gloster, and a splendid red heifer calf by Royal Victor, a Sittyton Victoria and a son of Scottish Archer.
Mr. Edwards contributes a dozen imported by Kreer, her dam by Mr. Fletcher, Rosehaugh, and sired by Scottish Archer. Belladonnu is a bouncing roan 2-year-old, of fine femininc character and grand constitution, a daughter of Mr. Bruce's Roscommon, by Beau Ideal, has a charming red beifer calf to go with her, sired by Scottish Archer.

cendo, by Prince of rasmon, a Archer. Mr. Edwards contributes a dozen imported Scotch-bred females, and four or five Canadian-bred cows and heifers of rich breeding, all of which are young, though a good proportion are of breeding age and in calf to his imported stock bulls, and others have promising calves at foot, to be sold with their dams. His impos-tations have been carefully selected and his herd bred on intelligent and up-to-date lines, and his cattle will appear in the good thrifty herd bred on intelligent and up-to-date lines, and his cattle will appear in the good thrifty condition in which they are always kept. A glance at the pedigrees of his contribution to the sale catalogue reveals that it comprises representatives of many popular families, such as Sittyton Brawith Buds, Secrets, Missies, and Lovelys, Kinellar Urys, Heatherwick May-flowers, Marigolds, etc. As samples of breed-ing, we mention a few of their pedigrees, among which is *Flower Girl 11th*, a roan 2-year-old, bred in Aberdeen-hire and got by Knuckle ing, we mention a few of their pedigrees, among which is Florer Girl 11th, a roam 2-year-old, bred in Aberdeenshire and got by Knuckle Duster, a show bull of the Inverquhomery Augusta family, sired by Waverley, a Hichland Society winner, and her dam by Scottish Victori, bred by Mr. Duthie, a Cruickshank Victoria by Scottish Archer. Minorea and is a red 2-year old Heatherwick Mayflower, by Craibstone 2nd, whose sire was a son of William of Orange, and her dam a daughter of the Inverurie Challenge Cup winner, Beau Ideal. Scottish Rose is a red 2-year-old, having for sire the Collynic-bred Earl Marshal, bred almost identically the same as the English champion Marengo, being sired by Scottish Archer, and out of a Missie dam by William of Orange. She will be sold with her nice roan bull calf got by Principal of Dalmeny, son of Sittyton Seal and of the Uppermill Vain Princess by Elocutionist. Pine Grore Secret is a roan yearling daughter of imp. son of Sittyton Seal and of the t ppermitty Vain Princess by Elocutionist. Princ Grore Secret is a roan yearling daughter of imp. Marquis of Zenda, and her dam, a Sittyton Secret, is said to be a heavy milker and a capital breeder. Gustacos is a red yearling Brawith Bud by Mountain Archer, by Scottish Archer. Marigold 3th, a roan yearling, is a daughter of Diamond Jubilee, son of Lord Lovat's Red Duke, and her grandam was by Star of Morning. Rowthe is a roan yearling, with British Knight for her sire, a son of the prizewiming Cruickshank Clipper bull, Knight of St. John, and having in her pedigree such noted bulls as Gravesend, Roan Gauntlet and Champion of England in close succession. Lordy Moid Soft is a roan yearling (runck shank Lovely, got by Chevalier, by Mutineer, who was by Scottish Archer, and his dam by Wilham of Orange. It is unnecessary to go further in illustrating the excellences of the breeding of the Edwards offering, and we are



Tome genuine without the signoture of The Lawrence, Williams Co-Sale hypories & Properties for the U.S.& CANADAS. CLEVELAND.O.

U.S.S CANADAS. I CLEVELAND.U. The Safest, Best BLISTER ever used. Takes the place of all lhimchts for mild or severe action. Removes all Bunches or Blemishes from Horses and Cattle, SUPERSFIDES ALL CAUTERY or FIRING. Impossible to produce scar or blemish. Every bottle is warranted to give satisfaction. Price 81.50 per bottle. Sold by Druggista, or sent by Express, charges paid, with fuil directions for its ise. Send for free descriptive circulars. THE LAWRENCE-WILLIAMS CO., Toronto, Ont.

### KEMP'S

**INSTANTANEOUS** Sheep Dipping Fluid kills ticks, lice and all parasites or insect life on sheep, hogs, horses and cattle ; destroys mange on dogs.

Immediate in action and permanent in effect. It is also a thorough disinfectant for barns, clos-ets, cellars, etc.

One gallon makes one hundred gallons of wash. Sold in half-gallon imperial tins, at 75c. The cheapest and most effective dip on the

market. If your druggist d. es not keep it, we will ex-press a tin (prepaid) to any address in the Dominion for \$1.

W. W. STEPHEN & CO., MEAFORD, AGENTS FOR THE DOMINION.

assured that the cattle are as good as their breeding would indicate. The sale of fifty head of high-class Short-borns, at Chicago, on June 4th, by Mr. George E. Ward, of Sioux City, Iowa, in addition to this joint sale, will make an exceedingly in-teresting series. Canadian breeders generally will feel interested in these sales, and as they occur at a time of comparative leisure on the farm, the probability is that a goodly repre-sentation from the Dominion will attend, as the gentlemen contributing stock to the sale have gentlemen contributing stock to the sale have done splendid service in promoting the interests of Shorthorn breeding, and have the confidence, respect and good wishes of their fellow breeders universally.

A three-year-old Shorthorn buil is advertised for sale by Hamilton Canning, Inverness, P.Q.

### THE DAIRY COWS AT BUFFALO.

THE DAIRY COWS AT BUFFALO. There are about 50 cows in the six-month-test at the Pan-American Exposition. Th-breeds represented by herds of 5 animals each are Ayrshires, Jerseys, Guernseys, Holstein Friesians, Shorthorns, Polled Jerseys, Red Polls, Brown Swiss, Dutch Belted, and French-Canadian. There is a prospect of adding a herd of Devons. Mr. G. W. Clemons, St. George, we understand, has the general super-intendence of the Canadian cows, and there is a special caretaker for each five cows. Follow-ing is a list of the Canadian cows in the test

Intendence of the Canadian cows, and there is a special caretaker for each five cows. Follow-ing is a list of the Canadian cows in the test. with the owners and caretakers: *Ayrshire*. – Pearl of Woodside 7129, R. R. Ness, Howick, Que.; Betsy 1st of Fairfield Mains (imp.) 12284, R. Reford, St. Anne de Bellevue, Que.; Kirsty Wallace of Auchenbrahn (imp.) 8301, R. Reford; Alice 2nd of Lessnesseek (imp.) 9161, W. W. Ogilvie, Lachine Rapids, Que.; Lady Flora of Orchardton (imp.) 12216, W. W. Ogilvie. (Caretaker, Thomas Bradshaw,) *Holstein-Friesian* (one extra to be rejected). – Meg 1207, Agricultural College, Guelph, Ont.; Inka Mercedes DeKol 1828, Matt. Richardson Caledonia, Ont.; Hulda Wayne's Aaggie 371. Matt. Richardson; Tidy Abbekerk 1692, H. Bollert, Cassel, Ont.; Beauty of Norval 1600, William McClure, Norval, Ont.; Sherwood Daisy 606, G. A. Gilroy, Glen Buell, Ont. (Care taker, James Cooper) *Jersey*. – Primrose Park's Pride 80173, W. ) H. Massey, Toronto; Mossy of Hursley 11674. Government of Canada; Maple Avenue Rexinis (09220, F. H. Neil Lucan Ont : Queen Max. of

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Int

time. Mr. Edwards' Pine Grove herd has had in service the two magnificent Missie bulls, Morquis of Zendu and Scottish Minsteel, the former a massive bull of splendid character, bred by Mr. W. S. Marr, of Uppernill, and sired by the grand old Brawith Bud bull, Wanderer, and his dam by the great William of the server with the mean wave reproduction. of Orange. He is poving a very prepotent sire in the Pine Grove herd, his calves having won the herd prize for calves at Toronto and Ottawa, the herd prize for ealities at Toronto and Ottawa, and a heifer call got by him, second at Toronto and Chicago last year. Scottish Minstrel, a roan 2 year old, bred by Mr. Duthie, is reluc-tantly included in the sale, owing to his being secolosely related to Marquis of Zenda that it is not considered wise to breed him to the progeny of the latter. He is also by Wanderer, his dam by Scottish Vrcher, and grandam by William of Orange, and being of the same family on his dam is side, is closely akin. He is a grand indi-vidu d, and will be a distinct loss to Canada if sold to leave the country.

us side, is closely akin. He is a grand indi-and, and will be a distinct loss to Canada if to leave the country by Carguill herd has had an use the three odd imported bulls, *Golden Drop Victor*, *Besquet* doth illustrated in last Christ-number of the Abvoe vite, and Foshion's work. The latter is ruch roan 2 year old, det in the side list, is a massive, thick end strong backed bull, with straight lines used head, and the character that indicate-ies show the figher, whose dam was by Star oblight and the dam of Fashion's Favorite runner. He has for size Prince of Sanguhar, oblight and the dam of Fashion's Favorite runner at the was by Prince of Fashion, a the son of Scottish Archer. Golden Drop of bred by Mr. Duthie from the popular that colden Drop family, and by the noted is shank Voncared size. Nonareil Victor, one of the laggest priced buils at the n Marris de in 1985, and is regarded as one is best, if not the very best, in Canada, a it reagation the proportions, true lines and it windered, from a Princes. Roval dam to dot the last of Scott is regarded as one is best, if not the very best, and radia, a it reagation of preprinces the line line in the body. Prince Boscuet, a red 2 year old windered, from a Princes. Roval dam to the the best of Scott is brief builts are of scott is not the scott scott brief builts (specified bills are scotted Here hills, its stock heils are Scotted Here is the stock builts are scotted Here The other breek balls are the bit of the knellar three others of the sector bit of the sector bit of the bit

which Mr. Duthie paid \$1.650 when 7 months old, and who is a son of Wanderer, the great old Brawith Bud sire. Gen Hutton, in the Edwards consignment, is a dark roan 16-months son of Marquis of Zenda, and from a Kinellar Rosewood dam, and is a very excellent young bull of great substance and fine quality. Galway, from the same herd, is a symmetrical, red. 16-months, imported, Brawith Bud bull, by Mr. Duthie's Mountain Archer, a son of Scottish Archer. The Hillhurst bulls are Hot Scotch and Scotch Rhoud, roan sons of imported Scottish Hero, coming a year old in May and July, respectively, the former from an imported cow, and both from deep milking families of excellent breed-ing.

Time and space fail us wherin to make men tion of the many meritorious females in the ioint offering, and it must suffice to say that most of them are imported, having been caremost of them are imported, having been care-fully selected, and representing a large number of the best known Scotch families. Mr. Coch-ranes offering, we notice, includes, among other imported heifers, two of the beautiful roan 2 year olds that figured in his show herd which was so much admired at Toronto Exhi-bition last year. Corruction by a son of Scottish

Government of Canada ; Maple A venue llexinis 109220, F. H. Neil, Lucan, Ont.; Queen May et Greenwood, F. L. Green, Greenwood ; Gypsy e-

109220, F. H. Nell, Lucan, Ont.; Queen May of Greenwood, F. L. Green, Greenwood; Gypsy o-Spruce Grove, Government of Canada. (Care taker, Robert Donaldson.) Shorthorn. Rose 3rd 113205, W. G. Pettit & Son, Freeman, Ont.; Daisy D. Sanders & Miner. St. Thomas, Ont.; Ith Primrose of Thule 2456, A. W. Smith, Maple Lodge, Ont.; Miss Molly, R. S. & T. E. Rolsson, Ederton, Ont.; Queen Bess 21786, William Monteith, St. Thomas, Ont. (Caretaker, Roland Sager.) French-Conadium, Liena Flore 300, Longue Pointe Asylum, Quebec; Bouen 50, College L'Assumption, Quebec; Bouen 50, College L'Assumption, Quebec; Bouens 50, College L'Assumption, Quebec; Lona 1852, Joseph Dugas, St. Jacques, Montealm, Quebec; La Bouchette 5851, A. Denis, (Caretaker, Eugene Bacon.) The cows are milked three times a day. The first test for weight of milk per day was made May 1th, and figured as below, which is nut a schort time to recover from the trip and get witholdows to backer. Marchael St. Schort time and aso

short time to recover from the trip and set short time to recover from the trip and get settled down to business. Holstein average fue one day, 50 lbs.; Ayrshire, 14 ; Swiss, 12 ; Short horn, 12 ; Red Polled, 39 ; Guernsey, 36 ; Jersey 314 ; Dutch Belted, 33 ; French Canadian, 27 ; Polled Jersey, 23 ; Tests of quality will be made in a week or so.

Pasteur Blackleg Vaccine: We take pleasure in calling attention to the removal, on May lst, of the Pasteur Vaccine Co., to the "Pasteur Building," 158–160 E. Huron St., Obicara, The succesful career of this concern is well known to stock raisers in the United States and Can ada who have had experience with Blackleg Vaccine. This removal became recessary on account of the growth and extension of buse ness. The "Pasteur Building is an elegante four story building. The company non fur mishes quite a number of reliable veneric and mercesting new therature in regard, to the diseases of here the k cost them treatments? which will be growth model for one re-

### THE FARMER'S ADVOCATE

Clydesdale horses, Scotch Shorthorn

B. Watt, SALEM, ONT., BREEPERS (Post and Telegraph Office.) cattle, Leicester and Oxford sheep, Berkshire pigs. Our SHORTHORN herd was founded over 30 years ago, and contains such tribes as the Village Buds. Matchless, Missies, Mildreds, Stamfords and English Lady, upon which we have employed such bulls as Barmpton Hero 324, Young Abbotsburn 6236. Challenge 2933, Perfection 9100. Lord Lansdowne (imp.) 2712. Clan Stuart 14381. Canada 19536. Sittyton Chief 17060. Royal Sailor (imp.) 18959, Royal George 28513. Clipper King 16233 and Judge 23419, all of which have been first-prize winners wherever shown. Royal Victor 34681 and Royal Wonder 34682, by Cloud 31317, by Lord Gloster 28985, and out of Melody 21992, a descendant of the Buckingham family. We are now offering young bulls, cows and heifers for sale, of Scotch type.

Farm 2 miles from Elora Station, G. T. R. and C. P. R., 15 miles north of Guelph.

# SHUKTH THREE COLLYNIE-BRED BULLS IN SERVICE

Scottish Hero, Joy of Morning. Scottish Beau, By Scottish Archer. By Pride of Morning.

By Silver Plate.

The herd comprises straight Scotch. Cumberland, Gloucestershire, and Canadian strains; bred to produce the best and most economical MEAT and MILK MAKERS.

# Shropshire and Hampshire Down Sheep.

M. H. COCHRANE, COMPTON CO., P. Q., G.T.R., 117 MILES EAST OF MONTREAL. HILLHURST STATION. om



Young Bulls and Heifers for Sale, bred from High-class Imported Stock.

Robert Hunter, Manager for W. W. Ogilvie Co., Lachine Rapids, Quebec.

The Weekly Examiner, of Charlottetown, P. E. I., in its issue of April 26th states that in the list of Government stock farm expenditures the price paid for the Shorthorn bull, officially [\$357,16].



The Sale Pavilion, Union Stock-yards, CHICAGO.

OF

Imported and Canadian-bred

SHORTHORNS

PUBLIC

IMPORTANT

FOUNDED 1866

SALE

# JUNE 5th, 1901,

When 60 Head of High-class Cattle will be offered at Public Auction. composed of selections of about equal numbers from the herds of

W. D. FLATT, - - - HAMILTON, ONT. H. CARGILL & SON, - CARGILL, ONT. W. C. EDWARDS & CO., ROCKLAND, ONT. HON. M. H. COCHRANE, HILLHURST, QUE.

These will be representative of each of the herds mentioned. The majority are imported animals from high-class herds in Scotland and England. All are young or in their prime, a considerable number being young cows with promising calves at foot, and heifers in calf to first-class imported Scotch-bred bulls. Some excellent young stock bulls, suitable to head first-class herds, will be included. om

For catalogues, apply to-

# W. D. Flatt, Hamilton, Ont.

On JUNE 4th, at the same place, Mr. Geo. E. Ward, Sioux City, Iowa, will sell 50 Head of Shorthorns.



Well; You've got the McCormick. You get

322

# HIGH-CLASS

### (First Importation Made in 1874.)

(M) recent importation of 30 head has just arrived home from quarantine. Herd now numbers over 120 head )

#### OFFERS FOR SALE

40 Imported Cows and Heifers.

40 Home-bred Cows and Heifers,

11 Imported Bulls and Bull Calves,

13 Home bred Bulls and Bull Calves.

For Sale : Streathorne bull-(c) Issue Weissen and States Condensity and the terms. F. M. Schweissen K. K. Britzminia, Giff.

### SHORTHORN LOUIS TONG HEIFERS



W. A. CAVANAUGH, Gen. Agt., WINNIPEG. MANITOBA.

W. J. CUMMINGS, Gen. Agt., REGINA. N.-W TERRITORIES. "THE FOR CARALOG F. FRIDE OF THE NEW CENTERS

### P. W. Stanhope, Toronto, Ontario. .... =

PAYS TO A. YERTISE THE FARMER'S ADVOCATE IN

### MAY 29, 1901

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Auction.

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#### GOSSIP.

The Hartney district has again to thank that enterprising horseman, A. Galbraith, for a pure-bred sinclin the horse, Prince Luckenbooth (8846). bred stream the noise, prince Luckenbooth (8816), a brown Clydesdale of considerable merit, by the noted World's Fair prizewinner, Prince Patrick. The lineage of this horse is good, con-taining as it does such names as Princess of Airds (2867, Broomfield Champion, Prince of Wales 173, and others.

Wales 673, and others. The Glenwood Agricultural Society, with headquarters at Souris, are bound to win if pertinacity will do it. A more favorable arrangement re leasing of the fair grounds ha-been entered into, by which a substantial build-ing, proof against the elements, will be avail-able. The Spring Stallion Show was not a brilliant success, the farmers being busy with the seeding. Four horses appeared, to be passed upon by the judge, Mr. O'Neil, of Monteith, Two Clydesdales, of which the winner was that good acting horse, Ellerslie Chief, owned and imported some years ago by Stevenson Bros., of Wawanesa; Ingmanthorpe Victor, well known to our readers, was shown by George Moffatt, Jas, Herriott put up the only bovine male, a Holstein bull. Souris, or Plum Creek, as it used to be known

Holstein bull. Souris, or Plum Creek, as it used to be known, would not be complete without the extensive mills and flouring plant of McCulloch & Herriott. This mill is of the latest pattern, and contains the most approved machinery, being considered as modern a mill as is to be found in Canada. The firm do a large business, among other things handling quite a number of cattle. In conversation with one of the proprietors, we find, however, that bran is not yet appreciated at anything like its feeding value by the farm-ers of the district. Souris coal is used for firing, about a ton being consumed every three hours. In our advertising columns, King Bros., of

about a ton being consumed every three hours. In our advertising columns, King Bros., of Wawanesa, have something to say to our read-ers. A recent visit showed their Yorkshires to be in good shape, the sows engaged in the matronly duties of raising large litters of bacon hogs. Shipments of stock are being made con-tinually, the Messrs. King finding the demand as much as they can attend to. The breeding stock contains several winners at the fairs, some of them from the noted Eastern herds of Brethour & Saunders and D. C. Flatt. Some at-tention is given to poultry, and considerable to wheat-raising, the farm being located in a fine district. distric

South of the pretty town of Wawanesa, which lies in the embrace of the banks of the Souris, is the farm of Francis Noble. Shorthorns of the milking type are there kept, including such cows as the red Lady Mary, 12 lbs, butter in a week. Duke of the Plains, a Topsman bull, is head of the harem. The herd will doubtless be seen at the local fair, July 17th and 18th.

At the present time the cattle industry is evoking considerable interest, especially among the city men and farmers. Cattle barons are being made every day, and we hear of such men as Harry Waller, Carberry, shipping a train load of stockers to the West. Dan. Hamilton, of Neepawa; Fenwick & Philp, of Brandon; Al-cocks, of Hartney, and others, have all been paying the farmers good prices for calves and yearlings. While this part of the business is yery alluring, because so largely speculative in paying the farmers good prices for calves and yearlings. While this part of the business is very alluring, because so largely speculative in its nature, the work of Joe Donaldson, Brandon, calls for special attention. The owner of a re-munerative butcher business in the Wheat City, he has found it necessary to have a good pasture close to town, at which are kept in the barns and other outbuildings, sheep, pigs, and a number of fattening steers. In conversation with Mr. Donaldson, the Abyoc yre found that the fat the cattle usually got from the farmers were really *thin* cattle; so much so, that it be-came necessary for the finishing touches in beef production to be put on at the Donaldson barns. The following is used for the purpose: One bag each of chopped barley, wheat screenings and shorts, the feeders getting on an average a gallon of the mixture three times daily. The proprietor considers it pays to thus buy feed and *funish* the cattle, and is of the opinion that farmers lose money by not finishing their beef cattle. Cattle are sometimes let out to fatten, seven cents a pound being paid for the increase in weight.

Concentration seems to be the watchword of industry nowadays, to which the buttermaking business is no exception. The Brandon Cream-ery Company is pushing "usiness along dairy lines, a recent visit showing their plant to be undergoing alterations and additions to enable them to keep up with the work. The output last year was 163,000 bs. of butter. This year the markaimed at is a quarter of a million pounds of high classbutter. Twenty-five hundred pounds is the daily output. Patrons are paid for their made. At outside points, where transportation has to be figured, the price is 14 to 14' cents per pound of butter. The honestly and square deal-ing of this firm, together with the turning out of a good article, accounts for the substantial increase in their business. At one little town, in a district rather poorly thought of for farm-ing, eleven hundred dollars was paid out to patrons for one month's creater. This is an illustration that dairying can be made to go in Manitoba. Concentration seems to be the watchword of Manitoba. Hide- and wool might be considered as by products of the stock world; yet on the care ful lending of such by products depends the amount of profit to be made. One of our adver of profil to be made. One of our adver-arruthers & Co., Brandon, are specialists roltable handling of hides, especially in sing of such for robes and coats. Mr. sers will have something to say on the 2 and care of hides by the farmer, which residue correful consideration. The receive careful consideration. The sub-will not use binder twine to the up a Binder twine and wool do not work up age ther into cloth, hence the manufac-sist on binder twine as a the formation del, on binder twine as a tie for wool theers of the South Brandon Agricul lety for the current year are: Presi-ex Naismith: 1-1 Vice-President, D. (2) 2nd Vice President, Jas. Elliott: (2) E. Green, Chas. Leachman, F. O. Uauk Noble, Win. Patterson, R. B. (3) G. Hashand, representing Horse Association, Sec. Treas., W. J. Box 26, Wawanesa, The South Formers' Institute have combined south Brandon Agriculture Society, onk will be carried on by one society, (1) for will be held in Wawanesa J. J. 18th

### THE FARMER'S ADVOCATE.



barre, Pa.: "For seven years I was scarcely ever free from the terrible torture of itch-ing piles. I tried all sorts of remedies. Was told a surgical operation might save. One 50 cent box of Pyramid Pile Cure entirely cured me." All druggists sell it. Free book by mail on Piles, causes and cure. Pyramid Drug Co., Marshall, Mich. 0**000000000**0

STAY AT HOTEL LELAN The Leading Hotel of the West,

ALL MODERN CONVENIENCES. RATES, \$2 TO \$4 PER DAY, OH- "FUS MEETS ALL TRAINS, W. D. DOUGLAS, Prop., Winnipeg, Man.

YOUNG SHORTHORNS FOR SALE Our present offering includes several choice young bulls fit for service, sired by "Scotland Yet," and out of Warfare (imp.) dams; also bull calves, from Elue Ribbon (imp.), and out of Royal George cows. Inspection and correspondence solicited.

A. & D. BROWN, M. C. RAILWAY. - OR IONA, ONTARIO.

# WOODSLEE STOCK FARM.

FOR SALE: 3 Shorthorn bulls, 15 months old, two reds and one roan. Well developed, healthy, and thick fleshed.

S. G. LITTLE, Hagerman, Ont. W. PATTON, Manager. Unionville Station, G. T. R.

Clover Leaf Lodge HERD Shorthorns A number of choice young bulls, heifers and cows, excellent milking strains. Correspondence invited. R. CORLEY, Belgrave P. O., Ont., and G. T.

R.; Wingham, C.P.R. SHORTHORNS.

For SALE — Bulls : Two 1 year old and one 8 months. A few heifers of choice breeding and superior quality. AMOS SMITH, Trowbridge P.O., Listowel Stn.

RIG. CASTRATION. Dr. J. WILSON, V. S., WINGHAM, ONT., Specialist in the castration of ridgelings. Terms and testimonials on application om

### GOSSIP.

Mr. D. McCrae, Guelph, Ont., has in quarantine at St. John, N. B., the imported Galloway bull, Cedric IV., the winner at Stirling, Scot land, last year, which is to succeed, as the head of the Janefield herd. Lord Wedholme, -old for \$800 at the Chicago show and sale in December 'edric IV, is said to be typical of the best

### GOSSIP.

At the sale of the Taplow House Jerseys, the property of Mrs. Walter Barron, England, last month, the average for sixty-four cows and heifers was \$11,178,100, the highest price being 60 gs. for Lady of the Lake 8th.

A very successful sale of Jerseys, the property of Captain A. B. S. Fraser, was conducted by Messrs, John Thornton & Co., at West Tarring Farm, Worthing, England, on April 2nd. The highest price was 67 gs., and the average £23 los, 4d. for forty-five head.

The celebrated Shire stallion, Harold 3703, the property of Mr. A. C. Duncombe, Calwich Abbey, England, had recently become such a martyr to rheumatism that it was deemed the kindest action to put an end to his suffering, so he was destroyed on April 2nd, being twenty years old. He was the greatest horse of the breed, a noted prizewinner himself, and sire of numerous winners. numerous winner-

numerous winners. Messrs, Bawden & McDonell, Exeter, Ont., have recently disposed of the following horses: *Clydesdale*, -Lipton, a 3-year-old, by Sir Ever-ard, to Jas, Henderson, Belton, *Shires*, --Fen Premier, a 7-year-old, to Geo. Duffield, Granton; King Charming, a 6-year-old, to John Suggett, Hillsburg, Ont.; Desford Margins, a 4-year-old, to E. C. Attrill, Goderich. These were all of recent importation and were amongst the best stock that could be secured in Scotland and England. This firm has imported and sold twenty stallions, Shires and Clydes, since Nov. 1st, 1900.

SOME WESTERN SHORTHORN SALES.

SOME WESTERN SHORTHORN SALES. On April 17th, P. D. Fuller, Sutherland, Iowa, sold twenty-seven head of Shorthorns at an average of \$304. The highest price for a cow was \$700, for Red Rose, a red four-year-old, to W. J. McLean, Rock Valley, Iowa. Another cow, Rose of Sunshine, a roan six-year-old, by Imp. Royal Sailor, with bull calf at foot, brought \$655; H. W. Weiss, Sutherland, Ia., being the purchaser. A. Carrier & Son, Newton, Ia., on April 15th sold thirty-three head at an average of \$157.40, the highest price, \$700, being reached for the red two-year-old Antoinette 5th, bought by F. S. Donahey, Newton, Ia. Twenty-seven Polled Durhams were sold at the same time and place, by F. F. Failor, for an average of \$172. The top price, \$565, was made by the red yearling bull, Commander Boy, and the highest for a female was \$280. On April 15th Indiana breeder: bold a com

was \$290. On April 17th. Indiana breeders held a com-bination sale at Indianapolis, which could hardly be called a booming success, as the average price made for the fifty-four head sold was \$152. The highest price was \$400, for Mirth Royal, a roan two-year-old heifer by Royal Hero, and W. F. Brockman, Hartsville, Ind., was the buyer. Royal Luck, a red year-ling by Robert Adair, at \$315, was the highest-priced bull.

WM. THORN'S AYRSHIRES AND POULTRY.

priced bull. WM. THORN'S AYRSHIRES AND POULTRY. The home of Wm. Thorn, Lynedoch, Ont., was visited recently, when we were shown his choice herd of Ayrshires and his well-equipped poultry house, where we saw pens mated of the leading varieties. At the head of the Ayrshire herd stands the worthy sire, Royal Star of St. Anne's (7916), by Glencairn 3rd (imp.) (6859, dam Margie of Williamstown. Royal Star was a first-prize winner at Toronto, first at London and sweepstakes. He possesses great merit apart from his superior breeding. He bears a grand countenance and noble disposition. His stock are a very creditable lot. Notably among the cows may be mentioned Lottie (1858), by Royal Chief (imp.), dam Jess (imp.). This cow cannot fail to attract one's attention, on account of her superior quality and well-balanced udder. Mr. Ballantyne has written Mr. Thorn in regard to sending this cow to the Pan-American Ex-position, to enter the milk and butter test, and it is likely she will go there if she calves soon cnough. If she enters the test, she cannot fail to make a mark for herself and owner, she being a hearty feeder and persistent milker. This cow has given, on plain feed.644 lbs, of milk per day, testing high in butter-fat. Her stock are most eagerly sought after. Her daughter, Lottie 2nd 3432, sired by Rob Brown of Barmoor-hill, shows all the good qualities of her dam, being a heavy milker. Addie 2458, sire Burford 588, dam Addie 2176, an excellent dairy cow, has a fine calf two weeks old, which is already sold, to be shipped soon. Polly 2637, sire Royal ( hief, dam Molly 1041, is another -tylish cow of good dairy promise. Norval Rose 2128, sired by Pride of Peel 809, dam baisy Dean, is a cow of beau-tiful conformation and dairy character. dairy promise. Norval Rose 2158, sired by Pride of Peel 899, dam Daisy Dean, is a cow of beau-tiful 'conformation and dairy character. White Floss of Trout River 11218, by Bob Brown, dam Addie 2458, is a promising young cow, stylish, sweet, and prompt at the pail. Daisy Bell 11246, by Rob Brown, dam Princess Maud, is a young cow of superior and find Brown dam Addie 2438, is a promising young cow, stylish, sweet, and prompt at the pail. Daisy Bell 1126, by Rob Brown, dam Princess Maud, is a young cow of superior quality, and carrying a grand udder. A few good young things might be spared, says Mr. Thorn. Among the poultry, our attention was at tracted first to a pen of White Cochins, most of them imported, and a grand pen they were, mated to produce prizewinners of a high de-gree. A pen of White Wyandottes, headed by a cockerel scoring 6 points, was a most attract ive lot, and are sure to produce something good. A good pen of White Javas, containing many first-prize winners, are worthy of a trial by any one wishing such. Next we were shown a pen of Light Brahmas, headed by an imported cockerel, purchased at a long price, with femdles of the highest degree of merit. Light Brahmas from these yards have received highest honors wherever they have been shown. A pen of Colden scabright bantams most worthy of at-tention was shown us, every bird in the pen fit to show in the best of company. Other noted breeding pens were shown us of the following varieties. Barred Ply mouth Rocks, Dark Brah-mas, Buff Cochins, Houdans, Cornish Indian Games, Golden Spangled and Black Hamburgs. Black ( ochins, Black Minorea, White Cochin bantams, Toulouse geese and Rouen duels are also kept. We were informed by the pro-prietor that he has been overwhelmed with orders for ponitry, having to return several hagh in shows. He also reports good sales in Aveshires, shipping to Nova sizotia. Quebe Manutoba, and everal places in Ontario. Are sparites wishing first class Crock, either Air shue to be a high and by calling on Wr. Thorn or writing him. The main compliance is a half and pointry goto show that enstones careback. It pleased with the took sent ont.



To produce the best results in fruit, vegetable or grain, the fertilizer used must contain enough Potash. For particulars see our pamphlets. We send them free.

> GERMAN KALL WORKS, 93 Nassau St., New York.

### GOSSIP.

The Shorthorn yearling bull. Patrician, sold at the Government sale at Ottawa in February to the P. E. I. Government at the reported price of \$238, was sold at auction on the market square, Summerside, April 9th, to the highest bidder, at \$185; Mr. Robert Agnew, Wilmot, P. E. L. being the purchaser. The bull reported sold for \$505 at the Ottawa sale, we understand is retained at the Island Government Farm, near Charlottetown. near Charlottetown.

near Charlottetown. Mr. Jas. A. Cochrane, Hillhurst Station, Que., in ordering a change in advertisement, writes: "I have sold the Hackney stallion, Rattling Shot, to Capt. A. L. McIver, of Robinson, P. Q., who has had the old Denmark stallion, Ford-ham, for the last four years, and reports him as fresh as a colt, though 24 years old this spring. Capt. McIver has also bought the imported brood mare, Vina, by Wildfire. I have sold the three young Shorthorn bulls advertised : Al-pine Crown to Wm. G. Johnston, Compton: Hillhurst Monarch to Allan Steven, Chester-ville, Ont.; and Joyful Scot to Chas. R. Rodger, Genoa, P. Q. Joy of Morning and Scottish Hero have both developed well during the past win-ter, and have a very promising crop of calves to their credit." The bull show of the Royal Jersey Agricul-

have both developed well during the past win-ther, and have a very promising crop of calves to their credit." The bull show of the Royal Jersey Agricul-tural Society was held early in April. The prizewinning bulls become the stud bulls of the pear, and an early date is chosen in order to enable breeders to select the bulls they will use during the coming season. This year's show aroused more than the usual interest, owing to the large sum of money offered by the States' Assembly in addition to the usual schedule of prizes offered by the Society in the endeavor to retain for service on the island the best-breed bulls. The States prizes were divided into three classes, three prizes in each, and were awarded by a committee who had to consider, in classes I and 2, besides the individual merit of the bull and that of his dam, the value of the pedigree of both from the breeder's standpoint, and make the awards accordingly. The task was by no means an easy one, yet, on the whole, the com-mittee accomplished the work satisfactorily. With these extra considerations of pedigree and merit of dam, it was to be expected that the prizes would not be the same as in the inspec-tion classes, where the bulls stood on their own merits. In the yearling class, however, Mr. P. J. Ahier's Leda's Golden Lad was likewise selected for first place, and Mr. Wm. Jean's Nuriel's Golden Lad for second honors, though only third by inspection. Mr. T. R. De Gruchy's Maxima sturd, but not placed for the So-ciety's prizes. In class 2, for 2-year-old bulls, Mr. W. J. Lab. y's Fontaine's Lord was moved one place higher, and took first, and was fol-owed by Messrs. T. R. De Gruchy's Manxman and the first place, and Mr. Wm. Jean's Nuriel's Golden Fernes Lad. took the red ribbon with five of the female progeny, was the most interesting class of the show. Mr. P. J. Ahier, the breeder of the celebrated proved by Messrs. T. R. De Gruchy's Manxman and the by messering class of the show. Mr. P. J. Ahier, the breeder of the celebrated with Emineat 2nd bulls than was the case formerly.

323

W. G. Pettit & Son, Freeman, Ont., write W. G. Pettit & Son, Freeman, Ont., write us, under recent date, that seven imported females that were sold at the Korns & Lee Shorthorn side in Iowa, last month, and that averaged §881.43 each, were from their herd. Three of them were only 15 months old. Messes, Pettit have also sold an imported bull at a long price, to go to South America, reference to which is made in another column in this issue made in another column in this issue

William Cooper & Nephews, the sheep-dip William Cooper & Nephews, the sheep-dip men, are sending out to their patrons, or pro-spective patrons, an attractive little souvenir entitled "Royal Winners," containing photo-engravings of representative sheep of the leading breeds and breeders who were dis-tinguished winners at the English Royal Show of 1900. A card to the firm, 142 Illinois St., Chicago, IIL, will scence a copy of the souvenir.

The following letter, under date of April 24th Red, from the Domision Department of Agri aion Department of Agri ulture, has been sent to the secretaries of the several Stock Growers Associations in the West 'I beg to inform you that the Minister of Agri everal Stock Growers "I beg to inform you" ulture has decided to rs in the Territories b and a number of copa-as soon as possible. These forms must be used by stock cowners desiring to obtain the vaccine, and must be set to Maror A. B. Perry, Com-missioner N. W. M. P. Ferrora, or to Dr. John Horgrave, D. V. S. Med. see Hat, to each of Horgrave, D. V. S. Med. see Hat, to each of

at Dr. Hargrave othe Minister a-statchewan, and othrax of black other he will, if Concurstic the conductive acti-

#### P. E. ISLAND STOCK SALE.

P. E. ISLAND STOCK SALE. The sale of Clyde-dales and Shorthorns held at Charlottetown on May 1st, by Messrs, Frank and F. G. Bovyer, was well attended. The prices were not high, considering the quality of the, stock. Four pure-bred Clydes, from the stud of Frank Bovyer, Bunbury, lot 48, two stallions and two mares, realized an average price of \$181.25; and 19 Shorthorns, from the herd of F. G. Bovyer, Georgetown, an average of \$109.50. The highest priced bull, Silver Chief, a seven year old, by d by Mr. Arthur Johnston, Greenwood, Ont., was knocked down to Silas Lane for \$150. The highest priced cow, Mina Mowbray, also bred by Mr. Johnston, and seven years old, was bought back by her bre eder for \$325. Mina's yearling heifer also goes back to Greenwood, Ont., at a price of \$129. Old silver Chief was in good form, and apparently has many if are of usefulness before hum. We con-sider that Mr. Lane has schemet to m here so if piles bad. This well for the here here, at ores of the fallow that the schemet hum the solution has a piler that Mr. Lane has schemet to m here solutions. The part of the value of the second the second that the second that the second that the second the value of t

160 Head	Young imported cows with calves at foot f sale. A number of the calves are imported in datSome of the families represented in the he are as follows :AUGUSTAS CLARAS 	n. rd <b>160</b> <b>H</b>
CATALOGUE	IF INTERESTED, COME AND SEE US, OR WRITE CARGILL & S FREE. CARGILL, ON CONCRETE PIGGERY OF ME. JEANNE DO RECORDED IN	and Henhouse

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# "Raymond Sewing Machine."

#### **REPORT FROM WATERLOO COUNTY.** THER RAYMOND MEG. CO., Guelph, Ont.:

**REPORT FROM WATERLOO COUNTY.** To the RAYNOND Mod. Co., Guelph, Ont.: Grynnwix, --I wish to make a statement that should be of some encouragement to your firm next at this time when your Company is investing a hirg- amount of capital in shops and machinery for the purpose of manufacturing the "National" in the ember. 1838, and received some practical in-structions at the O. A. College, Guelph, in the way of making good butter and putting it in next form for market. The first year I had nine hows and sold \$15.00 worth of butter from each to a heades keeping the house in butter and having the skin milk fresh, sweet and warm for the calves. In 1900 I received bigher prices for the butter, and mode \$52.00 per cow from 12 ows, or a total of \$625.73. I market my butter on Toronto and Woodstock, and can find ready sile for more than I can make. Although I am stormer, I have sold 93." National" ( ream Sep-intors since I got in your, two years ago. The National is profitable to a farmer, whether he makes the butter at home or sends the cream for the shing you success, and hoping you will be the reamery. I use a Baocock to ster, and find the ster supply your scents with machines as fast as meet them, I am. Respectfully yours. References.

Joseph A. Merrick, BOX EVS. WINNIPER, MANITOEA, Gen, Agt. for Manitoba, N.-W. T., and B. C. PLEASE MENTION FARMER'S ADVOCATE.

HAND POWER.

NATIONA



THE HEMHOUSE. Wall, from foundation to peak, built with THOROLD ( ) MENT,

THE PIGGERY. Basement walls built with THOROLD CEMENT.

### Read what Mr. Lockwood says :

### DELAWARE, OST., Mar. 16, 1900

ESTATE OF JOHN BATTLE, Manufacturers of Thorold Cement THOROLD, ONT. :

EXTIRE OF JOINT FATTLE. Manufacturers of Thorold Cement THOROLD, ONT. : DEAR Sites -1 used your THOROLD CEMENT in my building. It gave the best of satistaction and I recommend it to all who intend building. Both building are piggeries. The largest one is 20 × 40 with high, 12 in, wall next the bank, and 16 in, on other side and both ends. I do not know just how much material I used have forgotten but I used 5 to 1 of cement. Could not say just the time I was building it. Had five men, and six part of the time. The small building is 16 × 20, cement walls 11 ft. high at the caves and extend togables, walls 9 in thick. The top story is a hennery. Took five men about 5 days to build this one. There are cement floors in both, and cement troughs also. The top story of the largest building is a granary for 20 feet, and machinery the other half. I did not keep count of how much gravel I used, as the buildings are built right on the side of the gravel hill. I supply the tow uship with gravel.

ESTATE OF JOHN BATTLE, THOROLD, ONT. MANUFACTURERS OF THOROLD CEMENT.

13

### MAY 29, 1901

1866

### GOSSIP.

**GOSSIP.** Messrs. Bawden & McDonell, Exeter, Ont., have purchased from Mr. William Riddick, Crookdake Hall. Aspatria, for importation to Canada, the well-bred Clydesdale stallion. Life-Member (10080), bred by Mr. John Wallace, Skelton Pasture, Penrith, and got by the dual Cawdor Cup champion horse, Prince of Carru-chan (8151), a son of the Merryton Prince of Wales 6730, and never beaten at any show at which he was exhibited since his first appear-ance in public at the H. & A. S. Show, Dun-dee, in 1880. The dam of Life-Member was got by the fine horse, Baron Scott (1936), which bred useful stock in Penrith district. His grandam was got by the celebrated Samson (711), the sire of the dams of Darnley (222), Prince of Wales (633), and Old Times (579), and his grandam was by the noted horse, Merry Tom (532), which won the Glasgow premium in 1856, and was one of the fine-st horses ever seen in Glasgow. the finest horses ever seen in Glasgow

### THOMAS RUSSELL'S SHORTHORNS.

THOMAS RUSSELL'S SHORTHORNS. When in the vicinity of Exeter, Ont., recently, a member of the ADVCATE staff visited the River-ide Farm of Mr. Thomas Russell and was shown through his new and extensive stables, which have been laid out with a view to the comfort and secure care of his growing herd of imported and home-bred Shorthorns Mr. Rus-sell's herd is looking remarkably well, when we consider that shortly after finishing harvest last year, his barns were struck by lightning and burned, with all the feed stored in them. As a result, his accommodations for stock this last year, his barns were struck by lighting and burned, with all the feed stored in them. As a result, his accommodations for stock this last winter were meager. Mr. Russell has a strong and select herd of Scotch-bred cattle, and at present is using the imported bull, Red Prince, 2000, by Fire King 70429, whose dam is a daughter of Mr. Duthie's noted bull. Star of Morning. Red Prince, as the name indicates, is a dark red, showing a deep, long, symmetrical body on short legs. His calves are coming the right type. Mr Russell is offering this excellent young bull for sale, also two yearlings by Fragrant Duke, together with a few cows and heifers. The Riverside herd ranks high among the standard Shorthorn herds in Canada, the owner having made several select importations of up-to-date cattle from Scotland, visiting the Old Country in person only two years ago, and having made another importation last year of really choice things. Shorthorns bred in thisherd have figured conspicuously as prizewinners at leading Provincial shows of late years, and Mr. Russell is regarded as one of the safest judges of Shorthorns in the Dominion. We cordially commend him and his herd to the consideration of our readers, who will do well to look up his advertisement on this page, and write him for what is wanted or give him a call at his farm, which is only two miles from Exeter station, on the London and Wingham branch of the G. T. R.

OFFICIAL RECORDS OF HOLSTEIN FRIESIAN COWS, FROM APRIL 15 TO MAY 1, 1901.

During this period thirty-two such records

Impatient Beauty 30627, age 5 years 1 month H days, 16 days after calving : Milk 495.6 lbs., butter-fat 16 009 lbs., equivalent butter 80 per cent. fat 20 lbs. 2 ozs., equivalent 85.7 per cent. 2.) 075.

### Is of Little Benefit Unless it is Digested

**BRAIN FOOD** 

THE FARMER'S ADVOCATE.

Nearly everyone will admit that as a nation we eat too much meat and too little of vegetables and grains.

For business men, office men and clerks, and in fact everyone engaged in sedentary or indoor occu-pations, grains, milk and vegetables are much more healthful.

Only men engaged in a severe outdoor manual labor can live on a heavy meat diet and continue in health

As a general rule, meat once a day is sufficient for all classes of men, women and children, and grains, fruit and vegetables should constitute the bulk of food eaten.

Total and vegetables should constitute the bulk of food eaten. But many of the most nutritious foods are difficult of digestion, and it is of no use to advise brain-work-ers to eat largely of grains and vegetables where the digestion is too weak to assimilate them properly. It is always best, to get the best results from our food, that some simple and harmless digestive should be taken after meals to assist the relaxed digestive organs, and several years' experience have proven Stuart's Dyspepsia Tablets to be a very safe, pleasant and effective digestive, and a remedy which may be taken daily with the best results. Stuart's Dyspepsia Tablets can hardly be called a patent medicine, as they do not act on the bowels nor any particular organ, but only on the food eaten. They supply what weak stomachs lack, pepsin dias-

nor any particular organ, but only on the food eaten. They supply what weak stomachs lack, pepsin dias-tase, and by stimulating the gastric glands increase the natural secretion of hydrochloric acid. People who make a daily practice of taking one or two of Stuart's Dyspepsia Tablets after each meal are sure to have perfect digestion, which means perfect health.

health.

health. There is no danger of forming an injurious habit, is the tablets contain absolutely nothing but natural digestives: cocaine, morphine and similar drugs have no place in a stomach medicine, and Stuart's Dyspepsia Tablets are certainly the best known and most popular of all stomach remedies. Ask your druggist for a fifty-cent package of Stuart's Dyspepsia Tablets, and after a week's use note the improvement in health, appetite and nerv-ous energy.—Advt. om

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FARM NECK YOKES, 75c. each.

ST. EAST,

### TORONTO.

SPRING GROVE STOCK FARM Maple Glen Stock Farm. The home of officially tested, Advanced Registry, dairy test and showring-win-ning herd of Sylva HOLSTEINS, of Carmen Sylva now for sale. Price is in keeping with breed-ing and performances. om

C. J. GILROY & SON, Brockville, on C.P.R. or G.T.R. Glen Baell, Ont.

WHERE ARE THE BEST HOLSTEINS? WHERE ARE THE BEST HOLSTEINS? Have you read of Lilith Pauline DeKol's wonderful record? Her sire was bred here. Have you read of Susie DeKol's record? She was sired by a son of our great cow, DeKol 2nd. We can give our customers more of the blood of the greatest producers than can be found in any other herd. Look over official reports and see where the sires of the great pro-ducers were bred. We have over 30 young bulls for sale, and a large number of females. Animals shipped to Canada are accompanied by certificate of health, and are subject to no duties or quarantine. If you want the best, write or visit— BROOKSIDE HERD. om H. Stevens & Sons, Lacona, Oswego Co., N.Y.

H. Stevens & Sons, Lacona, Oswego Co., N.Y.

Maple Hill Holstein-Friesians SPECIAL OFFERING : Three very fine bull calves, 2 to 11 months old. Iso several extra good young cows and heifers.

325

TRATION

Lucy to 15003, age 12 years 9 months 24 days, 15 days after calving : Milk 4252 lbs., butter-fat 15600 lbs., equivalent butter 80 per cent, fat 19 lbs. 9.9 ozs., equivalent 85.7 per cent, fat 18 lbs. 50.9 ozs., equivalent 85.7 per cent, fat 18

Portland Queen 20571, age 11 years 10 months, 15 days after calving : Milk 424.6 lbs., butter-fat 15550 lbs., equivalent butter 80 per cent, fat 19 lbs 3 5 ozs., equivalent 857 per cent, fat 15 3.3 ozs., equivalent 85.7 per cent. fat 17

Dorothy Pauline DeKol Wayne 45123, age 3 year-2 months 5 days, 20 days after calving: Milk 441.8 lbs., butter-fat 14.572 lbs., equivalent butter so per cent, fat 18 lbs. 3.4 ozs., equivalent nt, fat 17 lb

Mercedes DeKol . age 3 years 7 24 days, 11 days after calving: Milk base butter fat 14.073 lbs., equivalent struct fat 17 lbs, 9.5 ozs., equivalent Inka mont 398.7 Rin

out, fat 16 lbs, 6 7 ozs. ood DeKol 15820, age 2 years 6 months 6 days after calving : Milk 345.9 lbs., d 11.493 lbs., equivalent butter 80 per 14 lbs, 5.9 ozs., equivalent 85.7 per cent. butt cent. fat E

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Artis DeKol 50504, age 2 years 1 month 6 days after calving : Milk 288.6 lbs., 8.888 lbs., equivalent butter 80 per 11 lbs. 1.8 ozs., equivalent 85.7 per 16 lbs. 1.8 ozs., equivalent 85.7 per 19 d : cen

ibs. 5.9 ozs. DeKol Segis Inka 52103, age 1 year Volar 9 days after calving : \_ Milk 1 day, 9 days after calving: Milk otter-fat 8.607 lbs., equivalent butter fat 10 lbs. 12.1 ozs., equivalent 85.7 i 10 lbs. 0.7 oz

at fat 10 Hbs. 0.7 oz. at 10 Hbs. 0.7 oz. Ormsby 1th 18501, age 2 years 9 days. Her calving : Milk 255 Hbs., butter fat opuivalent butter 80 per cent, fat 10 test 85.7 per cent, fat 9 Hbs. equivalent 85.7 per cent. fat 9 lbs.

thes Clothilde 51282, age 1 year 11 days, 8 days after calving : Milk 276.3 er fat 8.205 lbs., equivalent butter 80 at 10 lbs, 4.1 ozs., equivalent 85.7 per ths, 9.2 ozs. S. HOXIZ. intendent of Advanced Registry.

AYS TO ADVERTISE IN THE

**MER'S ADVOCATE** 

rams all imported from H. Dudding, Eeq.; the same blood as the 1000-guinea ram. J. T. GIBSON, DENFIELD, ONT. 133 FOR SALE: YORKSHIR 2 MOKIHOKN? ANU SUPERIOR Scotch-bred Shorthorn bulls, 12 to 14 months; 4 two-year-old heifers of the best strains; and cows with calves at foot. Also a superior lot of Yorkshire boars and sows 5 to 7 months old. Orders booked for spring from 3 pigs. Pairs and trios supplied not akin. H. J. DAVIS. BOX 290. - MOODSTOCK, ONT.

SHORTHORNS (imported) 3 BULLS 1 two year-old, 2 one-year-olds. A few ows and heiters THOS. RUSSELL, EXETER P. O

Iona Stn. on M.C.R., half a mile from farm

High-class Shorthorns and Yorkshire Pigs. Just now three 10-months balls, 20t by imp. Sirius 15281, great big massive fellows with lots of flesh and which above the average. Also a few voltige coastic off, and 5 or 6 heiters. We may orders new for the spring trade. Can superior voing /

JAS, MCARTHUR, GOBLE'S, ONT. 



Farm om C. W. HARTMAN, Clarksburg, Ont



No danger, safe, cheap, and effective

Beware of imitations,

Sold in large tins at 75 cents. Sufficient in each sold in large tims at 10 centre. Autornation in call to make from 25 to 40 gallons of wash, are ording to strength required. Special terms to breeders, ranch men, and others requiring large quantities.

SOLD BY ALL DRUGGISTS. SEND FOR PAMPHLET.

Robert Wightman, Druggist, Swand

gent for the Dominion.

imported females, selected from leading South herds, and their produce from above-named bulls.

Canada.

## W. W. Chapman,

Secretary of the National Sheep Breedsecretary of the Kent or Romney Marsh Steep Breeners' Association, Secretary of the Southerson

rter and Btrick

COD

-16

Cruickshank Cicely, got by the famous William of Orange. He is lengthy, low-set, and of good substance. Three very superior 2 and 3-year-old imported Scotch-bred bulls, whose pedigrees have not reached us at this writing, were secured from Mr. Robert Miller. Stouffville. They are *Rob Roy, Prince Victor*, and *Princely Victor*, the latter a lengthy, straight, smooth, and choicely-bred red bull, that has been in service at the Michigan Agricultural College, where he had been sold by Mr. Miller, and where, it is said, he proved a valuable sire. Lord of the Manor, bred by Mr. Jno. Gibson, Denfield, and purchased from Capt. T. E. Robson, Ilderton, is a massive and well-fleshed roan 2-year-old son of Aristo-crat, bred by the Messrs. Watt, of Salem, and sired by the Uppermill Red Lady bull. Royal sailor, bred by Mr. W. S. Marr, and the dam of Lord of the Manor is one of the Kinellar Roan Betty tribe. *Troot Creek Barmpton*, a straight, stmonth, red 2-year-old bull, bred by Mr. Flatt, at Trout Creek Stock Farm, was purchased from Mr. Jas, Gibb, Brookdale. He is a Kinellar Crimson Flower, sired by Vice Regent, a son of imported Aberdeen, a Toronto first-prize win-ner, and his dam by the imported champion twack-dank bull. Vice Consul. *Rosg Lod*, a subbronth-budy, bred by Mr. Philo L. Mills, i endington, Enzand, and imported in dam by M. Endt, is a thick, sappy son of Solferino, son of a barder be to a famou-future before him a way be worded of at the International Exposition at the top a famou-future before him as when added from New York last webboard at heat on Akys meet year. The tipment when added from New York last webboard at heat on a famou-future before him a weard from New York last webboard at high international Exposition at the top a display who has had I2 year-weard webboard in the share for. We weard at the top a straight form New York last webboard at high international

### MENTION FARMER'S ADVOCATE.

and other large shows. Sweepstakes in bacon classes over all other breeds in dressed carcass com Chasses over an other breeds in dressed carcass com-petition, also on foot, for two years in succession. Championship carcass in bacon class at Chicago, 1900. First - prize herd at Toronto Industrial for nine years. Write for prices. om

Brethour & Saunders, Burford, Ont., Can.

The American Antiquarian and Oriental Journal, published bi-monthly in Chicago, is a class by itself in natural historic and oriest matters, and is designed to interest student matters, and is designed to interest student manners, customs and conditions of ano-peoples. The number for March and A: 1901, deals with such subjects as the No-American Indians, Australian Tribes, Moo builders, Mexican and Maya Architect-Prebistoric Earthworks in Mississippi. Tagal Language, and the like. It is in its volume, and is welkgotten up.

The herd of Ayrshire cattle founded 50 years agaeby Mci Hyslop, Tower Sanquhar, Scotland, was sold but month, when HS head were dis-posed of at rood though not sensitional prices, the cow as eraging about \$55, and the bull-SHO. The call, The Czar, brough the highest price star and the bighest price for a tenall, was \$55. IN WRITING PLEASE MENTION FARMER'S ADVOCA

PLEASE

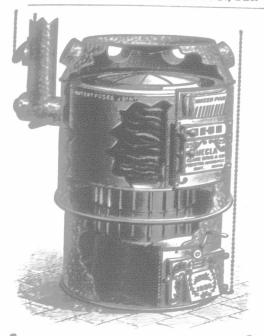
### MAY 20, 1901

### THE FARMER'S ADVOCATE.

MARCH BOARS AND SOWS from Thrifty Maid, the sweepstakes from Amiry Mart, the Sweepstakes sow at Guelph Fat Stock Show, and from Jessie K. and Minnie F. Sired by Advance and French, my stock boars. The pigs are choice, and prices right. NOBMAN W. BLAIN, Sec. 1. Sec. St. George. Ont. Brant Co. om

Canada's Winners, EGGS FOR HATCHING.

EGGS FOR MAIGHING. Silver Gray and colored Dorkings, Indian Games, Houdans, Minorcas, Hamburgs, Leghorns, Polands, Ducks and turkeys. Our birds win at Boston, New York, Toronto, London, Kingston, Ottawa, Montreal. Also Ayrshires (bulls and females). For full partic-ulars, write WM. STEWART & SON. Mania P. O., Ont. Menie P. O., Ont.



The Patent Fused Joint AS USED IN OUR HECLA FURNACE

is the most valuable improvement in furnace construction in recent years. By means of this patented method we fuse the steel and iron which go to make up the dome and radiator into ONE SOLID CASTING. There is no danger of cement falling out, to let the dust, smoke and gas escape into the house. Another feature of the Hecla is that it will been house. And it will burn



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CEILINGS paint and whitewash your buildings. McGregor, Banwell An 84 page treatise free. & CO., om SPRAMOTOR CO. **ASK FOR** WINDSOR, - ONT. London.Con. FREE L SIDIN L SIDIN SAMPLES . CATALOGUE **INCREASED CAPACITIES** AND **ESTIMATES** Use metal inside and outside and your building will be ETA warm and dry, lightning, fire, wind and weatherproof, pos-sessing a beautiful appear-ance at small cost. Improved Alpha-De Laval ROCESS Σ Σ BABY SEPARATORS. METAL SHINGLE&SIDING CO THE COMMON SENSE The Baby Separators have now their respective capacities increased as follows BOLSTER SPRING. PRESTON Humming Bird, instead of 225, now skims 250...\$ 65.00 Baby No. 1, 325, 450 100.00 Baby No. 2, 4450, 600 125.00 PATO JAN 13 35 DAPHCITY SEE Baby No. 1, Baby No. 2, Baby No. 3, BE UP TO DATE. Dairy Turbine, FOR TRANSFORMING COMMON WAGONS INTO FIRST-CLASS SPRING VEHICLES, THE EEST FARM-WAGON SPRING IN THE WORLD. 30% to 35% more capacity. No increase in price. Be progressive and buy the best." Frost Fence and Gates can be had at no greater charge than inferior makes. Why not have the best? Coiled spring wire sets tight. Heavy steel stays hold up, and the Frost fock sources the two The same standard of "ALPHA" closest skimming is preserved. To carry 1,000 pounds, per set ..... ....\$ 5 00 Apply to local agents or to 1,500 <sup>11</sup> <sup>11</sup> <sup>11</sup> ..... 6 00 7 00 8 00 Canadian Dairy Supply Co., 327 COMMISSIONERS ST., MONTREAL. 3,0004,000securely joins the two. 9 00 The Frost Wire Fence Co., Limited, Welland, Ont. . 10 00 11 **0**0 12 00 5.0006,000

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Mr. Duthie, Collynie, Aberdeen, has hired the rize bull, Caledon ('hief (74163), which won at 24fast this spring. This bull, we understand, ad been purchased for the Argentine, and ould probably have been exported ere this ad not the ports been closed, owing to foot-ad mouth disease,

a6.000a11 00a7.000a12 00The only truly graduated bolster spring in the market.12 00The only truly graduated bolster spring for light and heavy<br/>use Every set of springs guaranteed to give entire<br/>satisfaction. If your dealer does not handle them,<br/>write us direct.At the auction sale, on April 23rd, of the<br/>Shorthorn herd of Mr. William Taylor, Kirkly<br/>of Eventset of springs guaranteed to give entire<br/>satisfaction. If your dealer does not handle them,<br/>omAt the auction sale, on April 23rd, of the<br/>Shorthorn herd of Mr. William Taylor, Kirkly<br/>of Eventset of an average<br/>of 653 13s., and 42 females at an average of £35<br/>for South Flower 2nd, a roan 2-year-old show<br/>heifer which has won many prizes at localshows. She was sired by the white bull, Pride<br/>of Freedom, son of Pride of Morning, and<br/>grandson of Star of Morning, who has proven<br/>an extra good breeder. Mr. P. L. Mills, Rud-<br/>South Flower 2nd, a roan 2-year-old show<br/>heifer which has won many prizes at local

Milk, per hour, Price.

1000 225.00

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