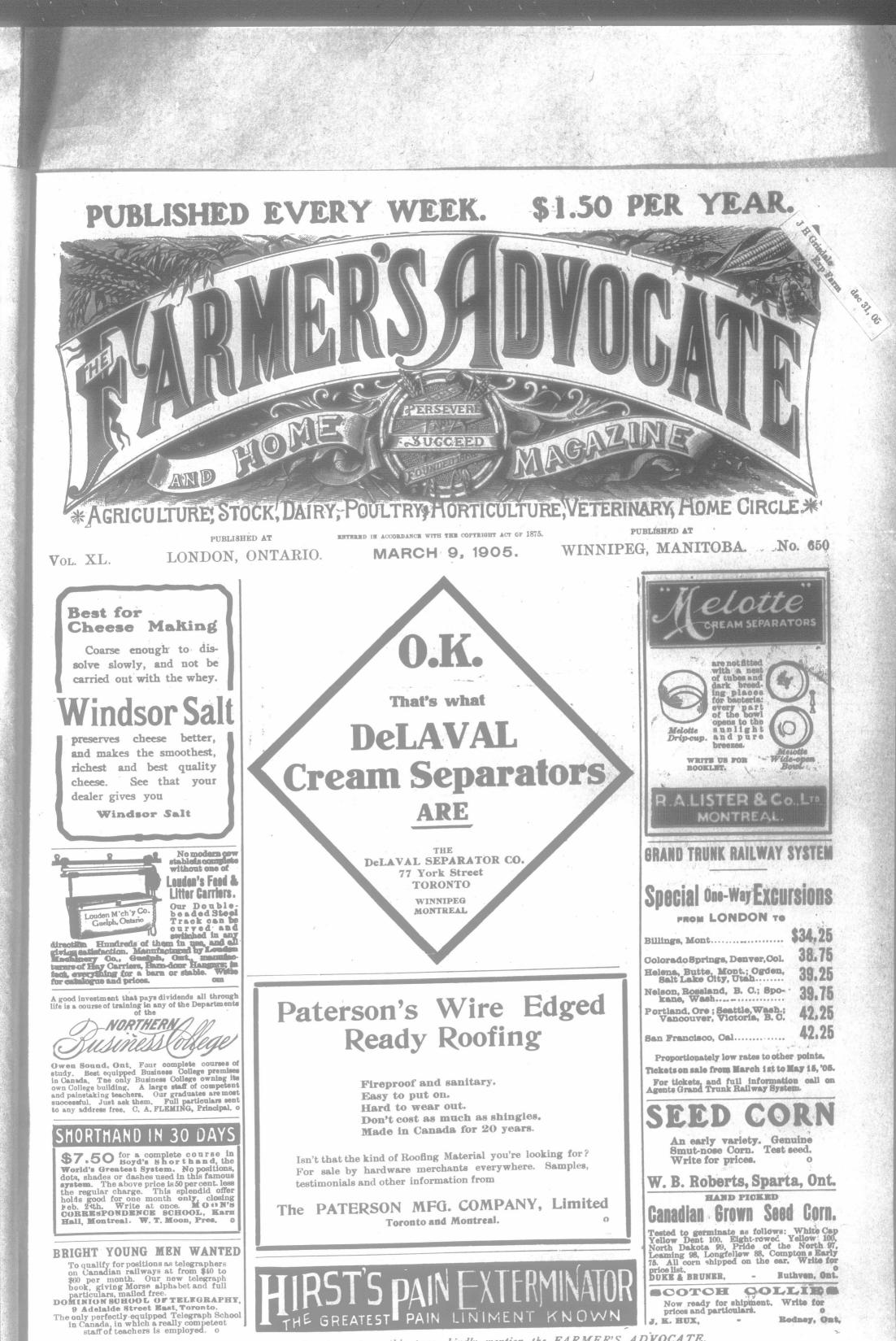
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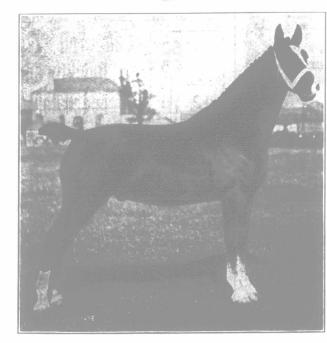
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MARCH 9, 1905

J'HE FARMER'S ADVOCATE.

**DISPERSION AUCTION SALE** DISPERSION AUCTION SALE OF Scotch 47 Scotch and **Shorthorn Cattle Scotch-Topped Shorthorns** WORK HORSES, FARM STOCK AND IMPLEMENTS **Clydesdale Mares and Fillies and** THE PROPERTY OF Farm Stock and Implements, GEO. H. JOHNSTON, Balsam P.O., Ontario, the property of 5 miles from Claremont Station, on C. P. R. W. G. HOWDEN, Columbus P. O., Ont. Thursday, March 23, '05 3 miles from Myrtle Station, on the C. P. R., on Wednesday, March 22, '05 **47 HEAD SCOTCH SHORTHORNS** 9 particularly good young bulls, including the imported two-year-old stock bull Choice Koral =50026=. 38 females, including Fames, Crimson Flowers. Miss Ramsdens, Marr Stamfords, Kinellar Bessies, Kinellar Bulls including the Imp. stock bull Meadow Lord of the Kilblean Beauty family. Trains will be met at Myrtle station on the C. P. R. Minas, and other good tribes. and G. T. R. evening before and morning of sale. Catalogues mailed on application. Trains at Claremont Station, C. P. R., will be met evening before and morning of sale. Catalogues sent on application. W. G. HOWDEN, Columbus, Ont. GEO. H. JOHNSTON, Balsam, Ont. On Thursday, March 23rd, Mr. Geo. H. Johnston, Balsam, Ont., near Claremont, C. P. R., will sell his entire herd of On Wednesday, March 22nd, Mr. W. G. Howden, Columbus, Ont., near Myrtle, C. P. R., will sell his entire herd of 47 head of Scotch and Scotch Topped Shorthorns by auction. Scotch and Scotch-Topped Shorthorns at auction. Austioneers { LEVI FAIRBANKS, Whitby. T. E. ROBSON, Ilderton. Auctioneers | LEVI FAIRBANKS Whitby. T. E. ROBSON, Ilderton, ~~~~~ AT DISPERSION SA H) 50 High-class Registered Hackneys



(Stallions and Mares),

As well as some excellent Harness and Saddle Horses and one Registered Clydesdale Stallion, will be sold at auction on

# Wednesday, Mar. 29,

### at WAVERLY FARM, Bowmanville, Ont.

Consisting of the entire stud (without reserve), acknowledged to be the best in America.

Terms : Cash. Special arrangements may be made with parties desiring time.

CATALOGUES ON APPLICATION.

For further particulars, see Gossip.



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SALE TO COMMENCE AT 11 A. M. SHARP.

WALTER HARLAND SMITH, Auctioneer, TORONTO, ONT. ROBT. BEITH, Proprietor, BOWMANVILLE, ONT.

Bowmanville Station is on the main line of the G. T. R. (40 miles east of Toronto); 5 trains each way daily.

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# THE FARMER'S ADVOCATE.

FOUNDED 1866

# **ARE YOU COMING WEST TO FARM?** TRY THE LAST MOUNTAIN VALLEY DISTRICT.



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VOL. XL.

REGISTERED IN ACCORDANCE WITH THE COPYLIGHT ACT OF 1875.

LONDON, ONT., AND WINNIPEG, MAN., MARCH 9, 1905.

**Na. 6**50

### EDITORIAL.

### Back to the Soil.

There existed a time, even within the memory of many of us, when the denizens of city and town almost invariably looked upon those of the country with a sort of compassion. Farmers, forsooth ! Poor souls, doomed by fate or incapacity for business to spend their days in grubbing a living from the soil ! Hump-backed were they from hard work, and behind the times, their livery rusty, illfitting clothes, dirty teeth and finger nails, and a provincial "brogue," in which the omission of the final "g" of "ing" was the leading feature. So, the farmers were looked down upon as a class, and their occupation belittled, because of the carelessness of the few, and the dry-goods clerks and bank-boys smiled and shrugged their shoulders, and thanked their stars that they were not as one of these. But the sturdy old " hayseed " or " mossback," driving in on his load of hay, recked not at all, but kept his rugged country heart staunch within him, and felt glad and peaceful when he got back home at night to his cows and horses, the dog watching at the gate, and the neighbor ready to drop in to have a talk over the prices after tea. And so the ebb of misconception was reached, and it became time for the tide to turn.

Turn it did. Little by little, it came to be recognized that the "mossback" was making money; that up-to-date machinery was making his work easier for him; that he was beginning to build attractive houses and barns worth seeing; that, in short, he wasn't having such a bad time of it at all, and that the farmhouse, with its gallons of Jersey cream, and its eggs fresh from the straw, wasn't a half-bad place to spend a summer holiday in. By-and-bye, too, it began to filter into the minds of these benighted ones the fact that soils and circumstances differ so among the townsfolk, that there must be something in farming, else why this fuss over agriculgricultural colleges etc. ? Why this ceaseless probing into farmers' affairs by the Government? Why this turning to farming of men who might live wholly in another world, literary lights, such as Haggard and Buchanan, in England, and others ; merchant princes and industrial magnates all over America ? It was noted, too, that the farmers' sons and daughters were coming into the towns to the high schools and collegiates, and were carrying off not a mean percentage of the honors. More wonderful than all, was it observed that many of these educated farmers were returning, of their own free will, "to the land," where they were managing to become people of "affairs." Surely, then, there must be some use for brains in the country. So the faint call became clearer, and the country became the fashion. Over desk and counter began to creep visions of the free, independent, open-air life; nature-books appeared, not as heralds of the new ways of thinking, but as signs of the times, and the bookstores became flooded with them. Finally, a few venturesome souls from the shops and desks began to creep back to the land. The movement has not yet been fully established, but it is in progress, more noticeably as yet, perhaps, in the United States than here. It is even stated that, in some parts of the former, a fair percentage of the students in the agricultural schools are from the city. This change may go on with profit both to town and country, for the town has many to spare, and in the country are yet millions of acres waiting for the

deep, wild woods to fields of gold. For the present, however, to the country lad, it is sufficient to know that the stigma has passed forever from the name of the farm ; that he may be proud of his heritage, and of the good old name of "farmer"; and that it will be wholly his own fault if the term "hayseed" or "mossback" is ever applied to him more.

### Preparing for Seeding.

The importance of sowing only clean, sound seed is being more generally recognized by farmers, and cannot be too strongly emphasized if noxious weeds are to be kept in check and paying crops obtained. Experiments have proven that the largest, plumpest seeds of grain, as a rule, yield much the largest crops. The grain and grass seed sown earliest in the spring, provided the land is in suitable condition, generally makes the strongest and most continuous growth, and yields the largest returns. It is, therefore, important that sufficient good, clean seed be provided and prepared now, before the rush of spring work comes. The prudent farmer will have his plans and calculations for seeding well considered and matured early in this month. He will see to it that his horses, harness and implements are all in good condition before seeding time, in order that the work may be pushed through as quickly as possible, and that the cultivation will be such as will give crops the best chance to start well and to develop satisfactorily, and will not slight the work in the vain ambition to finish before his neighbors. No work on the farm pays better than properly preparing the seed-bed, thoroughly breaking up and pulverizing the surface soil so that germination of the seed may be quickly effected, and that the rootlets of the plants may readily find available nourishment to give them a good start in life. We are not unmindful of widely that no cast-iron rules can be laid down that can be safely followed by all, and that each farmer must use his own judgment, and profit by his experience in handling the land he has to do with, but, as a general rule, fall-plowed land in preparation for spring seeding needs only surface tillage with cultivator, disk and smoothing harrows, and, if need be, with the roller, to pulverize lumps or flakes which the other implements fail to break up. As to the depth to which it is necessary or prudent to cultivate there exists a difference of opinion, some claiming that for best results, cultivation should be only to the depth at which the seed is required to be deposited, that the seed, being placed on firm, moist soil at a depth of two or three inches, and covered with as many inches of loose, dry earth, has the benefit of mulch, which prevents evaporation of moisture, allows the air to reach the seed, and gives a warm, dry surface for the sun to warm, hastening the germination of the seed, and insuring exemption from drouth, even though no rain may fall for weeks. Others contend for, and practice, deeper cultivation, claiming that a deep seed-bed is necessary, in order that the roots, in their search for food, may have free access to loose soil in all directions. These differences of opinion may, in part, be accounted for by the differing character of the soil their advocates have been dealing with. One can readily understand that on loam or low-lying land, the shallow cultivation indicated may be sufficient, and best, while on clay knolls deficient of humus, or vegetable matter, and hence liable to dry out and bake, deeper cultivation is desirable and safer, unless touch that shall turn the prairie grass and the such portions are mulched by means of a light

top-dressing of short barn-yard manure to encourage and preserve moisture. The columns of the "Farmer's Advocate" are open for the discussion of these and other methods of cultivation. as well as the question of varieties of grain and grass seeds, their preparation, and the quantity per acre necessary to be sown for best results, the best class of implements of cultivation, the place and potency of the roller, before or after sowing, and the use of the harrow on crops after germination, where the surface soil has become packed by rains and baked or crusted by sun and wind. Farmers, let us hear from you on these points in short letters, giving your opinion and experience along these lines. If you have not had experience in writing for the press, do not allow that to deter you from writing. We will see that your contribution is put in presentable shape, and shall be thankful for your interest and help. We consider the letters from farmers the most interesting feature of our paper, and we have reason to believe most of our readers are of the same opinion.

### Canadians for Canada.

Men are indeed blind to the signs of the times who fail to discern the evidences of unprecedented agricultural activity and advancement in Canada. Concurrent with this great movement, country life, its occupations and advantages, have swung into more pronounced and general appreciation, not only on the part of farmers and their families, but of townsmen. Everywhere we find business men of means in cities and towns securing farm properties convenient of access, devoted to live-stock rearing of one kind or another, horticulture, and the like, and upon which they reside in the summer-time, and in many cases permanently. Not being in a position to undertake the actual direction themselves, these men require the services of farm superintendents or managers. There is also an increasing call for herdsmen on large pure-bred stock farms, and for managers on farms where such specialties as fruit-growing, oultry-rearing and dairying are being pursued Young men of, say, twenty-five years old and upwards who have been brought up on such farms, and have then secured the special technical and business training which the Ontario Agricultural College affords, should be well adapted to assume such responsibilities. In addition to the foregoing qualifications, we have no hesitation in saying that the very FIRST ESSENTIAL looked for will be unimpeachable moral character and integrity, lacking which all else is vain. It is just this class of men that have been attracted to the agricultural college. Now, there must be a considerable percentage of O. A. C. students who have spent two or more years in taking its practical courses, and who, not having farms of their own to return to, or for other reasons, will desire to strike out on their own account. The president of the college and staff are not long in determining the measure of students, and would be in a position to see that none were recommended for such positions, unless they were reasonably well satisfied that they had the requisite capacity for the headwork and manual labor necessary to make whatever proposition they undertook go and pay. From what the "Farmer's Advocate " knows of the Agricultural College students, there has been plenty of just such material there, and we would very much prefer to see them remain in Canada, and aid in building up a splendid nationality here at this critical period in her history, than to go in search of employment to the neighboring republic or other foreign countries. These graduates have been,

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### THE FARMER'S ADVOCATE

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AND HOME MAGAZINE.

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

> PUBLISHED WEEKLY BY THE WILLIAM WELD COMPANY (LIMITED).

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### JOHN WELD, MANAGER.

- L. THE FARMER'S ADVOCATE is published every Thursday (52 issues per year)
  - It is impartial and independent of all cliques or parties, handsomely illustrated with original engravings, and furnishes the most profitable, practical, reliable information for farmers, dairymen, gardeners, and stockmen, of any publication in Canada.
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with few exceptions, reared on Canadian farms, and will most assuredly be in a position to give a good account of themselves in promoting the interest of those who entrust them with responsibilities, and, at the same time, lay the foundations for their own future.

### To Assist in Controlling Weeds.

The question of weed destruction and control

# HORSES.

### Watch the Mare at Foaling Time.

(Continued.)

We, of course, assume that the mare is provided with a comfortable box stall of sufficient size. This should be thoroughly clean and well bedded, and if there be an absence of feed boxes, mangers, etc., all the better, as these are more or less in the way, and in some cases mares foal while standing, and there is a danger of the foal dropping into one of them.

If the mare show symptoms of nervousness on account of the presence of an attendant, he should remain out of sight as much as possible. If the act of parturition take place in a normal manner, he should not interfere, but if complications arise he should endeavor to correct the fault. It is not uncommon for the mare to lie down with her croop so close to the wall that delivery cannot take place. In such a case she must either be forced to rise or be shifted into a favorable position. If the labor pains have been frequent, severe and long for considerable time, and still no visible progress has been made towards delivery, the attendant should roll up his shirt sleeve, oil arm and hand well, and endeavor to ascertain the nature of the obstruction, whether it be malpresentation, nondilation of the os uteri, or other causes. If he has sufficient skill to rectify matters he should do so at once, and if not he should secure more skillful assistance as soon as possible, as ignorant or unskillful interference will, in all probability, complicate matters and render successful interference beyond reasonable hope.

In many cases, after more or less prolonged pains, an easy birth takes place, and it is not uncommon in such cases, where the membranes have not ruptured, for the foctus to be born enclosed in them, and unless immediately liberated will perish from suffocation. So soon as the circulation of the blood from the dam to the foctus ceases, the latter must breathe or perish,

established by what is called a "reflex nervous action." The young creature is more or less suddenly ushered into the external air, which is usually much cooler than its former habitation; this acting upon the skin causes a gasping, which is continued by regular respirations. When this fails to act, it can be aided by slapping the foetus with cloths wrung out of cold water, or even throwing cold water upon the foetus, and by spreading and closing the fore legs of the animal, and by breathing into its nostrils or forcing air into them with a small bellows. Many foals perish from this cause, and at least a reasonable percentage of them could be saved by prompt and rational attention.

perish.

Respiration, under normal conditions, is

WEAKNESS OF THE OFFSPRING .- Many foals are so weak and helpless when born that even a few hours' inattention will prove fatal; while if they are attended to and assisted to their feet and held up until they get nourishment from the dam, in at most an hour after birth, and every half hour or so afterwards, until they gain sufficient strength to help themselves, they will do well. It usually requires two men to do this, and if the dam be restless, a third is needed to hold her.

VICIOUS DAMS .- Some mares, and especially those with their first foals, are so vicious with them that unless interfered with they will destroy them. This viciousness usually soon passes off, but close attention is required at first. In most cases all that is required is for an attendant to hold her with a bridle, and another attendant place the foal in position to suck. In other cases it is necessary to apply a twitch to the mare, or even tie one hind foot forward, to prevent her kicking. This should be done each time the foal wants nourishment, until the mare becomes reconciled. In the majority of cases the dam requires no particular attention, except to see that she is provided with a warm drink and warm feed of bran as soon as the foal has been attended to, but of course there are liable to be many conditions in which she will require special and skilled attention.

There may also arise in the foctus conditions not mentioned that require special attention, but we think we have shown that it is wise to keep a close watch on the mare that is about to fetch forth young. "WHIP,"

### Canadian Horses for the British Army.

That Canadian horses are adapted to British military purposes we have satisfactory evidence in the decision of the British War Department to purchase five hundred horses annually from the Dominion. About four thousand new horses are required for this service every year, and, through the good offices of Mr. W. S. Spark, who toured Canada last year in the employ of the Agricultural Department at Ottawa, Canada will have an opportunity to supply one-eighth of the total number. Mr. Spark has been appointed to make the purchases and suggests the establishment by the Ontario Government of a remount station as a means of immediately securing the necessary remounts. He is also commissioned to ascertain for the British Government from what country could be secured 10,000 horses in the event of war, and Canadian horsemen will be pleased to learn that Mr. Spark considers Canada most favorably situated. After studying the conditions in the Argentine Republic last year, he declared against the horses of that country. Two classes of horses are required-one for cavalry purof the stamp in use at Stanley Barracks



is the all but universal problem in Manitoba, and it helps nothing toward the mastery of the situation that grain-growing is the most popular branch of farming in this Province. Successive crops of spring-sown grains provide the most favorable opportunity for such weeds as wild oats, French weed, Canadian thistle, etc., to produce seed and to propagate themselves from year to year. The situation has become positively serious, and the public is open to any suggestion and will support any practical scheme that will assist in the war on these parasites of the grain field.

A hint as to the course to pursue comes from the State of Texas. Down there the U.S. Department of Agriculture is establishing demonstration farms, apart and distinct from experimental farms, for the purpose of demonstrating the system of farming it will pay best to pursue in that State. This idea applied to Manitoba would mean that the Government select certain farms throughout the Province to be used to illustrate what methods of cultivation and cropping would be most practical and profitable to follow, in order that the invasion of weeds might be checked and the minimum grown. These farms would not necessarily be owned by the Government, for there are plenty of such places throughout the Province where weeds are being controlled, but the detail work of each farm might be compiled by the Department, and a report issued weekly or fortnightly during spring, summer and fall.

### J. W. Sheppard, Cayuga, Ont.

President Ontario Association of Fairs and Exhibitions.

and in this case it cannot breathe, because it is enclosed in a complete sac. Instinct is supposed to teach the mare to liberate the foctus, by tearing the membranes with her teeth, and this is sometimes done, but in the majority of cases she lies for a few minutes after delivery, and in the meantime the foctus suffocates. The attendant must cut the membranes, liberate the foctus, and attend to the umbilical (navel) cord. He should remove all mucus from the mouth, nostrils and eyes of the foctus, and if the dam is still inactive, he should rub it well with clothes or wisps of straw until it becomes dry. This rubbing, or the licking of the dam. when she will attend to it, stimulates circulation by the friction, while if the foal be left alone the circula tion remains sluggish and respiration weak. In regard to the umbilical cord, if it remain unbroken during de livery it should be promptly attended to. Here in stinct is again supposed to operate, and teach the dam to bite it off; but we find that extraneous aid is often necessary. The attendant should be prepared for such emergencies, by having at hand a knife and some strong soft cord. He should tie the cord tightly around the umbilical cord, about one inch below the abdomen, and cut it off with a scraping motion of the knife about an inch below that. He should also be provided with bottle of the solution of corrosive sublimate,  $1\frac{1}{3}$ grams to the ounce of water, and should dress the navel with this as soon as possible, and four or five times daily until healed, in order to prevent the entrance of the germ that causes joint ill.

SUSPENDED ANIMATION.-In some fortus, following either a rapid or prolonged birth, is apparently dead, but the activity of the circulation can be detected by placing the hand just behind the left elbow and feeling the beating of the heart. If respiration be not established quickly the little animal will

the other for the artillery, somewhat heavier, possessing an infusion of Shire or Clydesdale blood. Of the latter, about two hundred are now wanted.

### The Functions of the Pastern.

The pastern, next in importance to the foot, should be oblique-sloping-and springy, viewed from the side. It is made up of the long or pastern bone, articulating at its upper end with the lower end of the cannon bone at the ankle or fetlock joint, the smaller pastern bone bearing on this at its upper end and below with the coffinbone enclosed in the hoof, and should stand at an angle of 45 degrees with the ground surface of the foot. It is plain to be seen-and all experience bears unquestioned testimony-that this sloping of the pastern in conjunction with the cushion structure of the frog is the main dependence of the horse from all jars in movement and concussion of the joints of the feet and legs to The prevent founder and navicular troubles. pastern bones, as it were, are suspended in a mass of ligaments and tendons, and when placed at the proper angle greatly relieve the bones of the foot from severe concussion, irritation, and possible inflammation, as well as relieving the sensative frog from injury by reason of such suspension at that angle. Ringbones, sidebones, and joint troubles are generally associated with straight pasterns. Horses with springy pasterns have more freedom of action in their legs, are better walkers, smoother trotters and pacers, and the springy pasterns are indispensable to the easy riding horse. The pasterns should be of medium length in draft horses, but this essential springing down of the pasterns at every step, or in pulling heavy loads, is of great importance in their lasting qualities or for breeding purposes. The straight-pasterned colt will come more so as

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### MARCH 9, 1905

### THE FARMER'S ADVOCATE.

### he advances in age and use. Straight pasterns Scale of Points of a Typical Galloway.

The following Galloway, as dr of the American December 2nd, for adoption the

### STOCK.

### Feeding Value of Oat Hulls Compared with Oat Straw.

I have a bunch of steers feeding. They are not doing as well as they should; they seem dry in the hair. Have been recommended to give them sulphate of iron and arsenic. Would that be good; if so, what quantity should I give?

What is the feeding value of oat hulls ? ENQUIRER.

Regarding oat hulls, the feeding value of pure oat hulls is very little greater than that of oat straw. As a rule, however, oat hulls as bought on the market contain more or less of particles of the oat grain and floury particles, which add to the value of the food. As there is no constancy regarding proportion of these additional substances, it is impossible to make a really satisfactory estimate of the feeding value of commercial oat hulls. I presume, however, that your inquirer has reference to pure oat hulls, in which case they may be placed on about the same plane with oat straw or chaff. Regarding bunch of steers, I may say it is unsafe

to prescribe in a case of this kind, unless one were thoroughly familiar with all the circumstances and the symptoms evinced. Sulphate of iron is regarded as a tonic, and I presume that is why it has been recommended. Arsenic, also, has a special tonic effect, but is usually employed only in extreme cases, and I would not think it good practice to give it in a case of this kind. It would probably do no harm to use small quantities of sulphate of iron, but it is my opinion that substances of this kind should be given only under the direction of a qualified veterinarian, who has had an opportunity to examine the animals and the circumstances surrounding them. It looks very much to me as though the trouble had come from injudicious feeding. If the digestive organs are deranged through mistakes in feeding, the main effort will have to be towards correcting this difficulty. If your correspondent had described his method of feeding, it would have simplified the problem very much. Rather easilydigested foods should be employed. A liberal supply of roots, say 40 or 56 pounds a day to each steer, should be a help. This, with hay of good quality, or chaff, or even cut straw, should answer well for the bulky part of the ration. As to the meal ration, it would be well to restrict the quantity somewhat, and to be sure to have a meal that was somewhat light and hulky in character. If corn or barley constitute any considerable part of the ration, it would be well to mix some oats or even a little bran with the meal, in order to give it rather more bulk. A pound of meal per day per hundred pounds live weight of the animals may be counted a pretty heavy ration, and to start with steers are better to receive less than half this quantity. I think it would be good practice to feed sulphur to these steers, say three or four times a week, for several weeks, and then possibly once a week would answer. A tablespoonful at a ferti makes a very fair allowance. Salt should also be provided, and the steers should also

receive plenty of water. Of course, these are only general recommendations

The following is the scale of points of a typical Galloway, as drawn up by the Board of Directors of the American Galloway Breeders' Association, December 2nd, 1904, which will be submitted for adoption thereof at the next annual meeting, 1905. This scale of points is based on the original scale of points drawn up by the Council of the Galloway Cattle Society of Great Britain, April 18th, 1883:

Color.-Black, or black with a brownish tinge.

Head.—Short and wide, forehead broad, crown wide and oval, not rising to a point. Any trace of scurs or horns debars an animal from registration. Face clean, muzzle broad, and nostrils large.

Eye.-Large and prominent.

- Ear.—Moderate in length and broad, pointing forward and upward, with fringe of long hairs.
- Neck.—Short, clean, and filling into the shoulder in such a manner as to make the neck and shoulder of fleshy animals appear moulded as one piece. The top of the neck in line with the back in a female, and in a male gradually rising with age.
- Body.—Deep, wide, well rounded, moderate in length, and symmetrical.
- Shoulders.—Broad, but well laid into body, joining smoothly; compact and deeply fleshed on top.
- Ribs.—Deep and well sprung, crops deeply fleshed, making width of shoulders and body at ribs uniform.
- Hook-bones.—Not prominent, in fleshy animals not visible.
- Loin.-Moderate in length, wide and deeply fleshed.
- Hind Quarters.-Long, wide and well filled.
- Rump.-Straight, wide, carrying width of body out uniformly; well filled with flesh.
- Thighs.—Broad as viewed from side, thick as viewed from behind; straight and well let down at hock ' rounded buttocks very objectionable.
- Legs.—Short and clean, with fine bone.
- Tail.—Straight and smoothly laid in with flesh at sides. A high tail-head very objectionable. Skin.—Mellow and moderate in thickness.
- Hair.—Soft and wavy, with mossy undercoat. Harsh or wiry hair is very objectionable. Curly hair, if soft, is not objectionable.

#### POINTS TO BE AVOIDED.

Mr. James Biggar, "The Grange," Dalbeattie, rings cost but a few cents per dozen."

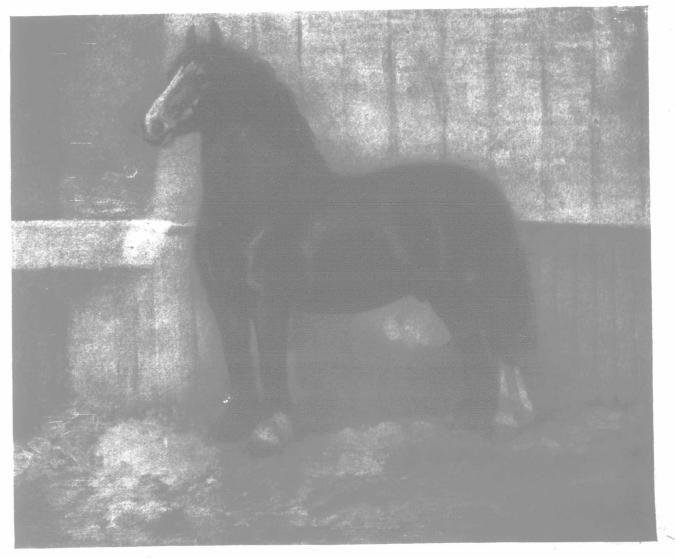
Scotland, who was judge of fat classes at the 1902 International Live-stock Exposition, Chicago, prepared the following list of "Points To Be Avoided" for McCrae's History of Galloways twenty years ago. With very slight revision, they are as pertinent to-day as the day they were written.

1st-Long, narrow head, with light crown.

- 2nd-Narrow, tapering muzzle
- 3rd-Long, drooping ears.
- 4th-Small, deep-set eyes.
- 5th-Small, light neck.
- 6th-Light, scraggy breast
- 7th-High, narrow shoulders.
- 8th-Flatness behind shoulders
- 9th—Light fore or back ribs. 10th—Square and prominent hook-bones.
- 11th—High or drooping rumps.
- 12th-Weak or slack loins.
- 13th—Rounded buttocks.
- 14th—Fleshy double thighs.
- 15th—Big, coarse bones.
- 16th-Thick, stiff skin.
- 17th-Hard, wiry hair without soft undercoat.

### To Cure a Sucking Heifer.

A writer in one of our agricultural exchanges says : " As all dairymen know, there is probably no greater nuisance on a dairy farm than a cow or a heifer addicted to the habit of sucking herself and other animals in the herd. It is not only the loss of the milk that is sustained, but it would seem that one such animal would induce others to contract the habit. We have had our share of trouble with heifers sucking themselves and others of the dairy herd. The fact of our having trouble in this respect has perhaps been " for the best," since in endeavoring to cope with it we have finally been enabled to hit upon a very practical means of breaking the habit in every instance. The method is so simple and easy of application as to put in the shade a number of devices on the market, and what is better, it is entirely satisfactory. Proceed this way, and you will have fixed for good the most persistent sucker on the farm. Insert in the sucking heifer's nose an ordinary bull ring. Just before inserting the ring, slip on it two common iron harness rings-of course, the harness rings are to suspend loosely after the bull ring has been inserted. This is the trick of it. By adding more than one loose ring, the animal can in no way prevent them from dropping in the mouth when it attempts to suck. Brass bull rings can be purchased in almost any hardware store for twentyfive cents each, and the common iron harness



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the foot, viewed long or nd with ankle or aring on ne coffinstand at l surface d all exhat this with the dependent and legs to s. The n a mass d at the of the and pose sensasuspennes, and d with pasterns egs, are ers, and the easy medium spring ), or in tance in urposes. re so as

which are all that can be offered under the circumstances. I regret very much that a full statement of the method of feeding did not accompany the inquiry, as it is only under these conditions that a satisfa tory answer can be made. G. E. DAY.

Agricultural College, Guelph.

Will the Embargo "Go"?

With Mr. Chamberlain and Sir Henry Campbell-Bannerman pledged to join hands in securing the free imports of store cattle from Canada, and with a solid phalanx of Irish members on their side for the time being, they are not without hope that they will soon achieve the victory for which they have so long been fighting. Canada is, and has always been, absolutely free from all diseases which are scheduled as contagious, are the strongest arguments that can be adduced for the repeal of the Diseases of Animals Act. The reason why the Irish breeders have been so suddenly converted to the view that the British ports should be reopened to Canadian store stock, which would inevitably involve a heavy reduction in the price of store cattle, which is the principal export from Ireland, is said to be this : The Irish landholders are just now in the way of purchasing their holdings under the Irish Land Act, and by reducing the price of their principal product. namely, store cattle, they intend to purchase their farms at much lower prices than they could otherwise do. When they have attained this end they will very soon again apply the closure to the Canadian store stock importation trade, for the Irish members, by their solidarity and organization in Parliament, can usually hold the balance of power in any Government -- [North Fritish Agriculturist.

#### Clydesdale Stallion.

Representative of the horses in the stables of Messra. Alex. Galbraith & Son, at Janesville, Wis., and Brandon, Man.

### Cost of Producing Beef.

'To the Editor "Farmer's Advocate":

There have been two statements in your valuable paper about the cost of feeding cattle from one year old to four. Mr. Wing says it costs three cents per pound to raise an animal the first year, seven cents the second year, eleven cents the third year, and seventeen cents the fourth Prof. J. H. Grisdale says it costs two vear. cents per pound for the first six months; for the second six months, five cents per pound; one to two years, eight cents per pound ; and from two to three years, seventeen cents per pound. Now, I have been feeding steers from two years to four years old for over thirty years, and my experience is that three-year-old cattle can be fed at a cost of from seven to eight cents per pound, instead of seventeen cents per pound. Our experience is that a thousand-pound steer can be made to weigh thirteen hundred pounds with six months' feeding, at a cost of from \$20.00 to \$24.00. might say I fed twenty of these steers last year ; their average gain was 301 pounds each. To confirm what I have written, look up the report given by Mr. Simpson Rennic, in the Ontario Live-stock Associations' report of 1903, page 75. This is a statement by a man who has gained his knowledge by experience, not by college learning or book-farming.

Now, it is strange that the Government should have such men trying to teach the farmers of this Province what it costs to feed a three-year-old steer, when they seem to know nothing about what it costs themselves. I hope, Mr. Editor, we will have a good discussion on this subject, and that Prof. Grisdale will explain, through the "Farmer's Advocate," how it costs seventeen cents per pound to finish a three-year-old steer. JOHN KENNEDY

York Co., Ont.

[NOTE.-In all these calculations, a great deal depends on the valuation put upon the feed, and a good deal also upon the skill of the herdsman. We have every reason to believe Mr. Wing's and Prof. Grisdales' figures are based upon authentic experimentation, though it does not by any means follow that beef cannot be produced for less. The main point, however, is that the figures are probably relative. That is, if the estimated cost of producing a pound of gain on the older steers is too high, the cost per pound in the case of the young ones will be likewise excessive. In any case, the economy of good feeding and early maturity is unquestionable. In Mr. Rennie's calculations, as quoted in the Livestock Association report referred to, the values (which, of course, are necessarily arbitrary) put upon roots and meal are quite low, the former figuring out to \$1.67 per ton. Whether they can be profitably produced for this, Mr. Rennie does All these feeding problems dovetail not prove. into the important one of crop production in such a way as to make it well-nigh impossible to separate them satisfactorily. Assumed valuation must, therefore, be placed upon feeds, and the intelligent farmer, understanding this fact, should not be in haste to dispute calculations on the cost of meat production. We have heard Duncan Anderson state that, in figuring the cost of feeding steers, he threw in the oat straw, as it was worth more in the manure pile than in the straw-This does not strike us as being quite mow. right, inasmuch as these by-products have value for feeding to other stock, and therefore should

then weigh 1,300 pounds, and you should get \$1.50 more a hundred than you buy them in at, or instead of 31 cents per pound, you should get 5 cents. At 5 cents per pound you would realize \$65, or a clear gain of \$4.48."

Q.-What would be the value of the manure? Mr. Rennie.-" That is too often lost sight of. Many, unless they see a great deal of gain in dollars and cents, are not satisfied, and would rather take their grain to market. I have figured out the commercial value of the manure, provided it is properly saved. The value would be as follows : Clover hay, 121 pounds per day, equal to 2,250 pounds for six months, \$8.04; turnips, 5,400 pounds, \$2.40; peas, 360 pounds, \$1.63; barley, 180 pounds, 42c.; corn, 360 pounds, 88c.; oats, 360 pounds, \$1.12; linseed meal, On this basis, the commercial value of \$1.50. the by-product, after feeding an animal for six months, would amount to \$16.35. I calculate, therefore, that a person feeding as I have outlined would make at least \$10.00 per head from the manure, and still allow an ample amount for labor.'']

### Dartmoor Sheep.

The Dartmoor sheep of the present day are a large, long-woolled variety, rivalling in size the Cotswold, Lincoln or Romney Marsh breeds. They are the result of crossing the original Dartmoor sheep with Leicesters and Lincolns, and do not give the idea of a forest or mountain race. They must, indeed, be very different from the "wild Dartmore sheep" or "ugly old Dartmoors" of

### Dartmoor Shearling Ram. First prize, Royal/Show, England, 1901.34

which Youatt wrote. Allowing for the influences of show-yard training, one can only now regard the Dartmoors, as seen at the leading English shows, as one of the heavy, long-woolled, hornless, white-faced races of sheep, with such an amount of the old mature as suffices to inure them to the severe winters of their native home, the highlands of Westmoreland. There were six en-tries of Dartmoors by three exhibitors, all from Devonshire, at the Royal Show at Park Royal, London, in 1904.

at the bottom and to a point at the top. The upper and lower pieces of the rack proper are made of 3 in. square spruce, with the corners taken off. The rungs should be 4 ft. 4 in. long, and 41 in. apart from center to center. The last rung at each end should be about

FOUNDED 1866

2 in. from end of lower pieces, and 4 or 5 in. on top pieces, which is to rest on the crosspieces attached to the uprights at ends of rack. There should be small notches or gauges on crosspieces next to the uprights to hold the rack when closed; also on ends, to hold open while feeding.

The photo shows the rack opened ready to receive the feed. When the rack is closed in the inside notches without feed in, it should just touch the floor. The upper crosspieces are to hang the racks on while being cleaned. The uprights and crosspieces should be made of good tough timber (mine is made of good ash). It is better to nail short pieces of boards up and down outside, as shown in cut, to support each end of long arms.

If you want to feed grain or roots in the racks hang the racks outside in outside notches, and the sheep cannot bother you.

With this rack there is no pushing the wool off the necks of the sheep reaching for the feed, and very little waste of feed, as the rack when closed leans in at the top, and there is a trough at the bottom to catch all leaves and fine stuff while the sheep are feeding. SIMEON SHAVER. Stormont Co., Ont.

### Shorthorn Breeders in Manitoba Discuss Breed Problems.

The Shorthorn breeders of Manitoba met in Winnipeg during the week of the live-stock associations' meetings, at the call of E. R. James, director representing Shorthorns in the Cattlebreeders' Association, to discuss the subjects mentioned in his letter, which was published in the issue of February 22nd. There were present between fifty and sixty breeders of the reds, whites and roans, the following Shorthorn enthsiasts being noticed : J. G. Barron, Stephen Benson, R. C. Henders, Wm. Ryan, S. English, W. S. Lister, Walter James, Jno. Graham, Andrew Graham, A. Morrison, Jas. Yule, G. H. Greig, R. I. Crisp, Dr. J. G. Rutherford, Less Ferguson, A. Ayearst, Jno. Rankin, Jno. Gordon, Waldo Greenway, and many others, including many new beginners in the breeding of Shorthorns.

The discussions were animated, especially with reference to the apportionment of grants to shows by the Dominion Shorthorn directorate. Much light was thrown on the subject by President J. G. Barron of the Cattle-breeders' Association, who stated that he endeavored to get a share of the grant for Brandon Show, and that the election of members to the executive of the D. S. H. B. A. was cut and dried, and he and the other director from Manitoba had no voice in the election. Mr. Benson thought that if Brandon was to have a share of the grant, Neepawa and Killarney were equally entitled to such. Some of those present desired the formation of a Provincial Shorthorn Association, which the majority thought unnecessary at present in view of the resolution which was passed unanimously re nationalizing the records of Shorthorns as follows :

Resolved that in the opinion of this meet



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be rated at their actual worth for substituting It is easy enough to figure a hay or silage. handsome profit in feeding. To actually secure it without losing on the other end, viz., production of the feed, is another matter. The problem, though, is one well worth figuring upon, and we append Mr. Rennie's statement

'In selecting a ration, we require one that will fatten an animal readily and give good profit. If an animal weighing about a thousand pounds is brought in, and is kept tied up and quiet, the following ration will be about right : 12 pounds clover hay, 30 pounds roots, 2 pounds peas, 1 pound barley, 2 pounds corn, 2 pounds oats, and 1 pound linseed meal. I find that a ration of eight pounds will do such a steer through the feeding period ; but I do not give any meal for a little time after they are put in the stable. When they are on the full ration "The main point to consider is the profit

Take an animal weighing 1,000 pounds, and costing \$35, or 31c. per pound, which is low; the cost of feeding that animal for six months on the ration I have given will be \$24.52. In making this calculation I have valued the hay at \$5 per ton, the roots at 5 cents per bushel, the meal at 1 cent per pound. On this basis the cost will be 15<sup>1</sup> cents per day, or \$24.52 in six months. do not usually feed for quite six months, but if we can show a profit on feeding this animal for six months, we should be satisfied. The interest on the investment would be another dollar, that you will have to get for your animal \$60.52 when finished. A reasonable gain for a 1,000us ad steer would be 300 pounds; we should export that—in fact, I often get a good deal more; but an endinary feeder on a fair ration should

### A Good Sheep Rack.

To the Editor "Farmer's Advocate"

In reply to your correspondent J. C., in January 26th issue, page 140 of the "Farmer's Advocate," re sheep rack, I herewith send you a photo of a rack I have been using for the last twenty-five years, and it is apparently as good to-day as when first made. It may not be the best rack in the world, but I like it the best of any I have ever seen, and I have seen a good many. I will give its dimensions : Length, 12 ft.; width, 3 ft. 6 in. (inside measure); height of sides, 10



Simeon Shaver's Sheep Rack.

in; uprights at each end, 4 ft, long and 21x4 in.; lower crosspieces on uprights, 3 ft. 6 in. by 21x4 in.; upper crosspieces on uprights, 16 in. by 2%x4 in. The crosspieces should be bolted to uprights. The floor of rack should be down 3 in. below the top of the sides, and should be well supported and braced from below. The dividing boards in center of rack on top of floor should tave a gain of 300 pounds. The animal would be 16 in. wide, and fitted so as to spread about 11 in.

ing of Shorthorn breeders of Manitoba, it is absolutely essential to the future welfare of the interests of the breed in Canada that the Dominion Shorthorn Breeders' Association should be nationalized, and that the head office be moved to Ottawa.

" And further, be it resolved that if the controlling body of that Association refuse to nationalize the Shorthorn records, that a meeting be convened at the earliest possible date, of representatives of Shorthorn breeders of the Northwest Territories, British Columbia, and Manitoba, with a view to organizing a national Shorthorn Herdbook, under the provisions of the Act governing live-stock records."

Another important resolution passed by the meeting was introduced by Dr. A. G. Hopkins, and seconded by A. Graham, of Pomeroy, and was as follows :

"Whereas it is yearly becoming increasingly evident that top bulls of the Shorthorn breed are getting harder to get; and

'Whereas the competition of such opulent buyers as the Argentine men and titled Englishmen still further limits the choice of high-class bulls in Great Britain by Canadians wishing to introduce fresh blood ; and

"Whereas many of the best British Shorthorns to-day, including many prizewinners, both male and female, are ineligible under our herdbook restrictions to be used in Canadian herds; and

"Whereas all students of the laws of breeding of improved live stock are of one opinion, viz . that it is not wise to narrow the stream of im-

"Therefore, be it resolved that we, the Shorthorn Breeders of Manitoba, respectfully suggest to and urge upon the Dominion Shorthorn Breeders' Association that they remove the presDED 1866

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### MARCH 9, 1905

ent barrier against some of the best British a solution made by dissolving four ounces of formalin followed by wheat seeded to clover. Twitch grass might Shorthorns, and make easier the improvement of requirements of the rule that all British Shorthorns shall trace to Vol. 20 Coates', to read Vol. 30 Coates', and that five or ten years hence the mark shall be Volume 35 or 40 Coates', and so on, similarly at set periods, depending whether a quinquennial or decennial period be decided upon.'

### FARM.

### Farmers' Institute Gleanings.

Supplementary meetings for Ontario were held in several districts during February, the regular meetings, contrary to the usual custom, coming on later. In East Middlesex there have been eight supplementary meetings held. The delegation, consisting of J. W. Clark, Cainsville; A. C. Hallman, Breslau, and A. B. McDonald, Appin, report that while they have seen meetings more largely attended, yet on the whole attendance has been good, and interest in the subjects and discussion following addresses is quite up to the mark of any former period

A few years ago, and for many years in succession, no subject was so much asked for as the silo. For some years back the bacon hog had the lead; so much so that an institute speaker, in criticism of a certain meeting, said that there they didn't care to talk about anything but hogs. This season these gentlemen report that while the silo and the bacon hog are still live subjects, there are others which excite greater interest. These are, "Improvement and Feeding of Stock," "Noxious Weeds," "Growing and Curing of Alfalfa," and possibly "Poultry."

#### CALF REARING.

Mr. Hallman, in his treatment of the stock question, lays special emphasis on the raising of calves. He claims that skim-milk calves are not necessarily inferior to those fed whole milk. His calves, after they are four or five weeks old, get skim milk only, and that by measure. Five or six quarts each per day, in three feeds for a time, and never more than eight quarts a day, he supplements with bran, fed dry, after a time adding grain-hay, of course, being supplied throughout. He made the statement that improvement in stockbreeding is of little or no account unless accompanied by improvement in feeding. He believes that dairy cows generally are not fed nearly up to their capacity, and, in consequence, do not return full profits.

#### ALFALFA.

Mr. Clark said that in his neighborhood alfalfa was so much thought of that some farmers were turning to it in preference to corn and the silo. He grew no other kind of hay, cut it three times in the season, and all kinds of stock were fond of it. He had with him a sample of the hay ground fine, for which he had a contract with some supply house, who sold it for poultry It looked like tobacco dust, such as greenhouse food. men burn to rid their plants of lice, and which is said to be excellent, dusted in the feathers, for lice in poultry, but smelt sweeter. The principal lack in the ordinary management of poultry in winter was said to be that of grit, and of meat in their food ration.

### MIXED AND MUDDLED.

At the Stormont and Russell meetings, Mr. C. W. Nash is reported to have said that in some districts farmers had better cattle 25 years ago than to-day. In the early days Shorthorn sires were stock, then came the dairy era, and the Ayrshire was introduced to increase the milk flow; with co-operative dairying, the Babcock test system of paying for milk, and buttermaking, Jersey bulls came to the front, and then the impressive Holstein, so the combined result was described as "the worst mongrel on earth." Mr. Nash advocated using a sire for two generations, in other words, inbreeding, a doctrine which farmers will do well to consider long before adopting. Mr. D. M. Wilson (Dairy Instructor) condemned turnips, apples and rape for milch cows, and advised cooling cheese-factory milk during week days to 60 and 65 degrees, and on Saturday night and Sunday morning to 58 degrees. He thought cheesemakers could not do the business just making cheese at one cent per pound.

### THE FARMER'S ADVOCATE.

in ten gallons of water ; this quantity being enough for our Canadian Shorthorn herds by changing the twelve bushels. The grain should be spread out and sprinkled wet with the mixture; kept so for two or three hours, then sown

#### WARBLES.

Warbles in cattle, the speaker held, are becoming an evil very hard to remedy, but remedy is very necessary, since the insects retard the fattening of cattle greatly, and lessen the value of the hides. About the most practical way of getting rid of them is to squeeze them out. If every farmer would do this the country might soon be clear of warbles. Farmers should also put forth every effort to prevent destruction of birds, even hawks and owls, as the birds are our great protectors against insect pests.

#### BETTER SEEDS.

At the South Brant Institute meetings, Mr. Hutton dwelt on the necessity of buying only the very best quality of grass seed. Out of 523 samples of timothy tested last year, every sample contained from 100 to 1,200 weed seeds of various kinds per pound. Red and alsike clovers showed the same proportion. Only the best and plumpest seed of any kind of grain should be planted. In corn, for instance, a difference of six or seven bushels per acre may be obtained by putting in well-developed rather than shrunken seed.

Mr. Metcalf emphasized the importance of growing clover as a fertilizer, and Mr. Hilborn urged farmers to improve their home surroundings. By planting a few trees and shrubs each year, much may be done. Trees

be disposed of by plowing well in the fall, and cultivating and ridging the land up for winter. Cultivation is also effectual against bindweed, and most other weeds. Good drainage also is of great importance.

In speaking on " Dairying," Mr. James recommended the use of the scale to test the cows, and so facilitate the weeding out of poor ones. A balanced ration for cows is advisable, alfalfa hay being particularly valuable, owing to its balance of composition. Dehorning may be easily done, by applying Gillett's lye or caustic potash to the embryo horn when the calf is three to ten days old.

Mr. Thompson spoke on the "Feeding and Breeding of Swine," and recommended farmers to keep the right type of rangy bacon hog. He grew his hogs on roots and apples, fed meal dry, and gave water in the trough once a day. In pens he would recommend the "upstairs " platform for the hogs to sleep on.

#### PAINT THE BUILDINGS.

In North Brant the meetings began at Mulligan's schoolhouse, where Major Sheppard, of Queenston, and Mr. J. S. Pearce, of London, were the speakers. Major Sheppard said he was ashamed of the appearance of Ontario farm buildings. In the Maritime Provinces, and even in Quebec, the farmers generally either painted their buildings or washed them with some preparation that gave them a clean appearance, and acted as a good preservative to the outside building material. In regard to the improvement of country roads, he would adopt a system of road-building to do away with statute labor, and engage a commissioner who

knew his business, to look after the keeping of the roads in good condition. He would also compel by by-law, the use of wide tires on waggons.

Mr. Pearce spoke on the selection of seeds. Seed should be cleaned thoroughly two or three times through a good mill to rid it of everything but the largest, heaviest He advised seeds. hand-picking a few of the best heads of grain in a field, sowing this in a plot by itself, and repeating the operation to note results. By proper care the amount of yield could be increased five to ten bushels per acre. Only the best grass seed should be bought. Corn should be selected true to type, and tested before being planted. Farmers, he thought. should grow their own mangel a n d turnip seed from perfect roots.



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#### POTATO BLIGHT.

In further addresses, which were practically the same at all points where Institute meetings were held in Eastern Ontario, the subjects of potato blight, warbles in cattle, insect pests, etc., were discussed.

Regarding potato blight, Mr. Nash insisted that spraying with Bordeaux mixture should be done when the plants are very young, just two or three inches high, and that it should be repeated about three times during the season. These precautions are essential to success with potatoes, as Mr. Nash was of the opinion that there is no blight-proof variety, and that only insistent care can secure a good crop. Where the soil is particularly rich in plant food the blight is likely to be worse, owing to the fact that the plants make such rapid growth at first. Spraying just as soon as the plants appear is, he said, useful in preventing injury from bugs as well as blight. Scabby potatoes might be prevented by sprinkling the potato chips before they were planted with flour of sulphur.

As regards smut in oats, Mr. Nash said that it could be prevented by wetting the seed thoroughly with recommended a hoe crop, with thorough cultivation,

#### Laura [112].

First-prize Shire mare in aged class and champion mare of the class, Canadian Clyde and Shire Show, Feb, 1905. Owned and exhibited by John Gardhouse & Sons, Highfield, Ont.

tween it and the one burning.

#### ORCHARD CARE.

At Ohsweken, Mr. Hilborn spoke on the "Care of Apple Orchards." Heavy clay land should be tiledrained and plowed in the fall when preparing it for an orchard. Trees should be set in rows, 30 ft. one way and 40 the other, the best quality of fruit being obtained by keeping the orchard in sod and letting the pigs run in it. A mulch of coarse manure should be put under the trees. Pruning should not be done before the 20th of February, and a tree should not be too severely pruned at one time.

Mr. F. Lewis, in speaking on "Raising Dairy Calves," said that the first thing of importance is that the calf shall be well born. A calf should always be left with the cow for the first few days. After being taken away it should be fed whole milk until it commences to eat other food, such as bran or oats, and then changed off gradually to skim milk, with a little oil meal and whatever grain, etc., it will clean up. It is very necessary that young animals be kept growing and in good flesh all the time.

#### WEED KILLING.

At Kirkton, Mr. R. Thompson, St. Catharines, and Mr. D. James, of Langstaff, were the speakers. Mr. James took as his first subject "The Destruction of Weeds," and illustrated his theories by telling what he had accomplished on a farm. Unremitting watchfulness, he said, is the price of success. He strongly

Lampkin, in speaking on the culfire one building has been saved by trees growing be- ture of sugar beets, advised the liberal use of seed-18 pounds to the acre. He would not manure just before planting, but in fall before, or for a previous crop. Deep and thorough cultivation, a little further from the roots each time, is very beneficial. Thinning should be done when the third and fourth leaves appear. With good care a profit of \$30 per acre should be realized

#### ORCHARD SPRAYING.

from sugar beets.

The travelling deputation, consisting of Mr. H. Jones, of Maitland, Grenville Co., and Mr. Mason, of Essex Co., encountered very stormy weather at Thornbury, Grey Co., and attendance was small. Mr. Jones spoke on "How to Manage Orchards." Heavy clay soil, he stated, is not good for an apple orchard, but clay soil, which is porous or well drained, is all right, provided it has a good amount of humus. Clay soil should be underdrained. As to situation, a gentle slope is usually best. Clean cultivation, following a cover crop of clover, is very satisfactory in an orchard. Barnyard manure is the best fertilizer, but if it cannot be spared, then wood ashes or artificial fertilizer may be applied instead. The first spraying should be done just when the first buds are bursting; the purpose at this stage being to combat the tent caterpillar and the bud moth. The second, to destroy the coddling moth, should be given as soon as the blossoms fall. Two or three later sprayings will be beneficial against apple spot. When pruning, one should not cut the lower limbs off, and have all the fruit grow on top of the

SUGAR-BEET GROWING.

At Cainsville, Mr.

The nearer trees, where it will be hard to harvest. the ground the apples grow the better.

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He advised Mr. Mason spoke on "Corn Growing." farmers to grow their own seed corn, and to save seed from the best of the first ears that ripen. Corn might be planted any time from the 15th to the 20th of May. In Essex Co. the favorite system is to mark the field off in squares with a planter, and plant the corn with a hand-planter in hills three feet eight inches apart each way, with about three stalks to the hill. This way of planting makes cultivation easy, as it can be done lengthwise, crosswise, and anglewise, with a horse hoe, thus ensuring clean cultivation, with a minimum amount of labor.

### Treatment of Black Soil.

To the Editor "Farmer's Advocate"

Sir,-I have before me the remarkable experience of "Tiller," with his black soil of Wentworth Co., recorded in your February 9th issue. The description of his soil is very much like what I have in an old beaver meadow, which, before it was drained, was under water most of the year. While the black soil he describes is much like mine-which I would describe as peat chips-unlike his, mine is underlain with a blue clay subsoil, which holds the moisture well. In fact, I have an underground spring, which comes up through a crevice of rock about three feet below the surface of the ground, and only overflows in the spring and fall. In a dry time this soil dries out very badly, and would drift were it not kept down with a grass which, like his, is very hard to kill.

From the fact that muskrats have reveled in his subsoil (and, by the way, a few muskrats have always stayed around this spring of mine), I suspect it has been low swampy land, inclined to a quicksand bottom, which when drained would certainly become very dry. As weeds seem to grow-and "Tiller's" grain for a time grows well and then wilts-it strikes me that it is due quite largely to lack of moisture. The capillary action would be too slow for grain, while weeds, with more roots and deeper ones, could get on fairly well; then the plant food, when made available, would more or less drain into the open porous subsoil. We know that phosphoric acid is often hard to unlock, especially where lime is deficient, as it must necessarily be in such soils. To subdue the grass, I would plow very shallow in a dry time with a rolling coulter, and turn over pretty flat; then late in the season plow it a couple of inches deeper. To sweeten the soil and whip up its activities, liberal applications of salt and lime should help it.

However, if it would grow good grass at all, I should keep it seeded down, and only till it when I had to renew the grasses. Even then a good disking on the old sod would be better than plowing, and at the same time disk in the grass and clover seeds desired.

I have been successful with grain only once on my soil, although I have tried it three or four times. I subdued the grass one season with buckwheat, and afterwards seeded it down. My soil grows very good grass, but the tame grasses soon kill out on the very T. G. RAYNOR. peaty soil.

### Enniskillen Can Grow Sugar Beets.

In recent issues of the "Farmer's Advocate. we have been reading articles of interest from other districts about sugar beets, especially from think it the Berlin district turn to ask for a little space in the farmers We have been growing beets for three years. and the interest seems to be growing each year The first year being unfavorable is not worthy of special mention. In 1903, we had three acres that brought \$210.00. That encouraged us to put in twelve acres in 1901. Our results were not so large as some others, the circumstances not being so favorable. They were grown on oat stubble, without any preparation, the one-half not being plowed until spring. And as the soil is clay loam, it was quite lumpy and hard to The twelve acres, after paying for the work. seed and freight, brought \$628.28. I paid out for labor \$125.00, leaving a little more than \$500.00 off twelve acres. They seem to be easier to work every year. This year we harvested them the cheapest yet. We used a topper, a boy and one horse doing three acres a day, followed by the team and lifter, at the same rate, and after harrowing that they were picked in piles. ready for draw

### Treatment of Seed Grain for Smut.

Farmers who have suffered by smut in their grain fields, particularly those who will be obliged to sow, this spring, seed from a smutty crop, would do well to consider the merits of formalin as a fungicide. Of all prescribed remedies for smut, it seems the best. Formerly, the immersion of seed in hot water was advised, then the copper-sulphate (bluestone) solution was recommended. Both were good, and saved many dollars in some localities, but the formalin treatment seems to combine the virtues of cheapness, convenience and effectiveness, better than either of the others, and experiments of the last few years seem to warrant its general employment as a preventive in districts where smut is at all likely to affect the crop.

On this point, the experiments of Prof. Zavitz, of the Ontario Agricultural College, will be of interest. In the spring of 1902, and again in 1903, uniform samples of two varieties of oats were selected and submitted to special treatments with the object of killing the spores of smut adhering to the grain. The first treatment was immersion in hot water, the grain being placed in a bag, which was immersed in water at about Soon afterwards it was placed 115° in water kept at a temperature between 130° and The grain was occasionally stirred, and allowed to remain in the water for fifteen minutes. It was then spread out to dry on a clean floor, where it was stirred occasionally. Treatment No. 2 consisted of a five minute immersion in a solution of one pound bluestone (copper sulphate) in one gallon of water. The third treatment was a twelve-hour immersion in a solution of one pound of bluestone in 25 gallons of water. The fourth lot was sprinkled

is very bad the treatment would prevent a much greater loss than here indicated. As a few ounces, costing less than ten cents per ounce, would be sufficient material, it is apparent that the cost, even including labor, is comparatively trifling.

In the writer's experience with formalin, he has inclined to think that it delayed somewhat the germination of the seed, a point on which other observers agree. He could never conclude however, that any injury to the crop resulted, while the effectiveness of the treatment in preventing smut was all that the above experiments indicate. We would like to secure the experience of others who have used formalin, or other preventives, for this purpose, together with any points of value which have come under their observation.

### The Application of Ashes.

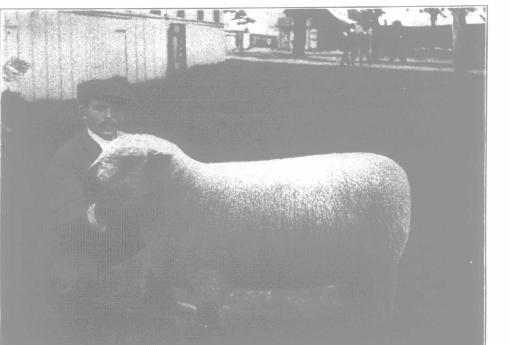
To the Editor "Farmer's Advocate"

Sir,-In the recent issues of the "Farmer's Advocate" reference has been made to the use of wood ashes. J. C. S. gives good advice when he says, 'Make the best of the manure and grow plenty of clover, and it will not be necessary to buy ashes or other fertilizers to make farming a decided success." His experience seems to show that ashes are not needed on the land on his farm, or in that particular neighborhood. Yet this is not true of all sections.

The three substances specially required by plants to induce a healthy and vigorous growth are potash, phosphoric acid and nitrogen. All three substances have their own particular part to perform in the development of the plant, and no one can take the place of another. The natural plant food of the soil comes from many sources, but chiefly from the decaying vegetable matter, and the weathering of the mineral materials of the soil.

By both of these processes plant food is brought into solution somewhat slow ly, except under favorable conditions, and both supply potash and phosphoric acid, but only the former supplies nitrogen. Comparatively recently it has been proved that leguminous crops may gather nitrogen from the atmosphere. and thus have at their disposal the immense amount of nitrogen which is in the atmosphere around them. Consequently, it is only for special crops and tions that nitrogen need be applied to as farm-yard manure. In the case of

potash and phosphoric acid it is somewhat different. The supply depends upon the ature of the



#### Belvoir Sirdar.

Shropshire shearling ram. Winner of first prize and championsh'p, Carad'an Nativral Exhibition, Toronto, 1904. Imported and exhibited by Richard Gibsor, Delaware, Cnt.

We are lookin. the season is favora acres that we intend

The farmers as a v est in beets in this local there will be more sou years.

Enniskillen Tp., Lamb

The weekly issue of the and Home Magazine" was o right direction, a step we farm

Wentworth Co. Ont.

from which the soil was formed, and

gallons of water. They were thoroughly moist-No. 5 consisted of a two-hours immersion in a of potassium. These soils, therefore, usually confifty gallons of water. Lot 6 was immersed twenty of which will depend largely upon cultivation and drainminutes in a dilute solution of one-half pint formalin in twenty-one gallons of water. Lot 7 was sprinkled with a solution of one-half pint formalin in five gallons of water. Lot 8 was un-After the tests had been completed a few days, the oats were carefully sown on separate plots, and examined frequently when the oats were coming into head. The following table gives average results noted in percentage of

| 1                      | Immersion in hot water                        | . 0   |
|------------------------|---|-------|
| 2.                     | Five minutes' immersion in bluestone solution | 1 13  |
| 3.                     | Twelve hours' immersion in bluestone solution |       |
| 4.                     | Sprinkling with bluestone solution            | 1 1   |
| 5.                     | Immersion in potassium sulphide solution .    | 1.7   |
| 6.                     | Immersion in diluted formalin                 | .0    |
| $\overrightarrow{i}$ , | Sprinkling with diluted formaline             | . ( ) |
| 9                      | Untreated                                     | 1.7   |

Commenting upon these figures. Prof. Zavitz formalin and twelve-hours immersion in bluestone olution gave the best results in each of the two The sufficiented seed had an average of 17 per

with a solution of one pound of bluestone in ten the amount of these constituents returned in the form of manure. Clay soils are formed largely by the deened, while being carefully stirred. Treatment composition of feldspar, which contains large quantities solution of eight pounds of potassium sulphide in tain large quantities of this substance, the availability age, etc. On the other hand, a sandy soil is formed largely from the coarser parts of the decomposed rocks, and does not contain nearly so much potash as clay soils. Those soils naturally rich in organic matter, such as swamp soils, are also deficient in potash; therefore, on sandy soils or swamp soils it has been found that ashes will give good results. As has been said, clay soils contain plenty of potash, consequently ashes will not give their best results upon these soils.

> Another point that must be considered in the use of wood ashes, is that plants differ in their power to take up the different constituents of plant food. Leguminous crops have difficulty in getting potash, and require a considerable quantity of it; small fruits also require lots of potash. On the other hand, the cereal grains do not require large amounts of potash, and seem to have the ability of attacking the different forms in which potash may be held in the soil, and are, therefore, able to take up potash which would not be avail-

Consequently, it must follow that if wood ashes are applied on well-cultivated clay soils, for such crops as oats or barley or wheat, we need not look for striking results. If, on the other hand, they are applied on sandy soil for leguminous crops, for small fruits, or the various garden crops, very striking results may be ob-

The amount of wood ashes which should be applied ver acre will, of course, vary with conditions, but from 50 to 75 pounds of potash (K2O) is considered a good

### DED 1866

t a much ew ounces would be the cost, rifling. malin, he

somewhat on which conclude resulted. t in preperiments experience other prewith any their ob-

### S.

er's Advoe of wood n he says, plenty of ashes or 1 success. not needed ular neighplants to tash, phos-

inces have evelopment of another. rom many ole matter, of the soil. of these plant food what slowunder faconditions. th supply phosphort only the ipplies ni-Comparantly it has oved that crops er nitrogen have at osal the mount of which is in n o s phere em. Concrops and nitrogen upplied to rd manure. case of nd phosid it is different. ply depon the h the soil ned, and the form by the dequantities ually convailability is formed osed rocks, h as clay ic matter, n potash has been s has been ensequently ese soils. n the use power to od. Leguh, and reruits also the cereal tash, and scent forms are, there-t be avail-

### MARCH 9, 1905

### THE FARMER'S ADVOCATE.

Plank Barn Frames.

To the Editor "Farmer's Advocate":

dressing. Therefore, if wood ashes contain five per cent. of potash, 1,000 pounds of ashes will contain 50 pounds of potash. Where wood ashes can be got at five or ten cents per bushel, they furnish an exceptionally cheap form of potash.

We are this season intending to carry on a number of experiments with potash on different soils with various crops, and will, we hope, in time collect some definite figures bearing on these points.

Ontario Agricultural College. R. HARCOURT.

### The Farmer's Share of Profits in Sugarbeet Industry.

We noticed an article in the "Farmer's Advocate" a couple of weeks ago, from a Scarboro Township farmer, saying that sugar beets ought to be bought on a sliding scale. We agree with him on that point, and can see no reason why we should get no more for beets when sugar is worth over six cents a pound than when it is only four or less. When wheat is up, flour is also up, and so with everything else. We don't want to hurt the sugar-beet industry, would rather encourage it, but as the manufacturer has had a very favorable year in 1904, why not try and come at some arrangement for sharing in the advance of the price of sugar, which, in all probability, will remain up for this year, owing to the tax on it. There is a vast difference between a twelve-per-cent. beet worth \$4.00, when sugar is four cents, and when sugar is worth over six cents

Our beet-sugar industry is highly protected here, and still the Marine City Co., with over one dollar a ton duty, pays as much for beets on this side of the line as Wallaceburg does, and have secured quite a large acreage this year. All we are anxious about is that the farmer shall have a fair share of the increased value of the finished product, and without that we will have to step down and out of the growing of beets with the high price of labor at the pres-BEET-GROWER. ent time. Lambton Co., Ont.

### United Effort in Tree Planting.

To the Editor "Farmer's Advocate"

Sir,-Is it not strange that so much is being written on the progress and resources of our Dominion, and so little said of the vast waste that has been and is still being made of the forests of our vast country. Canada, and especially Ontario, as we all know, was originally a wooded country naturally, and as such was possessed of the finest climate on the continent, but by the ruthless and extravagant destruction of our forests, Canada is fast becoming a country of blizzards in winter and severe drouths in summer. Is it not time that our legislators took up the question and made it compulsory on every municipality to plant and protect trees, at least along the roadsides and waste places that have been made useless for any other purpose? In says C. W. Burkett, in Progressive Farmer. It seems some few districts a spasmodic effort has been made to to me that this is the answer: The farmer's child replant certain sections, but no united effort seems to prevail. No adequate attempt at reforesting the country has been made, especially when we consider the im- metic and grammar. If he shows a special desire for mense advantage it would be, not only as an influence knowledge, and his father can spare him from the on the climate and the prevention of snow-blocked roads,

I notice, in your issue of February 26th, page 226, a letter from Essex Co., Ont., with reference to a plank-frame barn. I would be very much pleased and obliged if the writer would send you a drawing of plank frame, say of one bent, for a barn forty feet wide, with eighteen-foot sides and hip roof; also, how girts are put in to be stiff enough to stand the pressure of being filled with grain, etc.; also, any other points in such a frame as would be of use to any person putting up a barn, as the item of cost in timber is getting to be a serious problem with those who are contemplating building. Would the writers of same send a full description and particulars to the "Farmer's Advocate" for publication. It

might be of much benefit to many of your read-

LEWIS FORSYTH.

Ontario Co., Ont.



The new President of the Manitoba Cattle-breeders' Association

### Agriculture in the Public Schools.

" Do you ask why our boys are leaving the farm ?" enters our public school. He is there taught arithfarm, he may be given instruction in Greek, Latin,

on the other hand, we accept the dictum, that 'the proper way to do a thing is to do it,' and the proper way to teach agriculture is to teach it, othen very soon our teachers will prepare themselves, and they will teach agriculture just as successfully as they now teach any of the other studies in the school course.

"I would teach agriculture as everything else is taught in the schools. I would use a text-book ; assign lessons; perform simple exercises; train the pupils in lines of observation and judgment, and in doing so, create an enthusiasm for this great field of nature that can never be stayed. I hear some critic object on the ground that our school course is already filled, and there is no room for agriculture. All I have to say to that is, simply make room for it. I say that agriculture is so important, that if there is any crowding out to be done, let us crowd out some of the things that are less important. The country school is the farmers' school, and it is a mark of ignorance to say that this farmers' school shall not teach agriculture. There is room for it there, and if one wants to help the school and the people, there will be little or no difficulty in finding a place for agriculture. Let us remember that we can never straighten the oak after it has been twisted and turned for years by the tempest; so if we want to fill our children's minds with the right principles and start them in the way we want them to go, we must begin with those children while their minds are fresh and vigorous, and teach them to understand nature and to love the old farm. Let us then begin a work that has been too long neglected. Let us raise our voice henceforth for the farm boy and for farm life."

### DAIRY.

### The Production and Care of Winter Milk.

Canadian dairymen seem to have lessened their efforts in the production of winter milk, consequently we have a shortage, and a period of higher prices. Not many are in a position to avail themselves of the good prices now offered for dairy products of all kinds, and especially for The essentials for conomical profine butter. duction are :

1. Fresh cows. It is unsatisfactory trying to produce milk with a herd of cows most of which have been milking during the past summer. least one-half the cows should freshen between the first day of November and the last day of February.

2. A moderately warm, clean, light, well-ventilated stable is a great aid in the economical production of winter milk. Cold and badly-ventilated stables mean added costs for feed.

3. Cheap, succulent food is needed. This is best got by providing corn silage, mangels, clover hay, and suitable meal. A very good ration for a cow giving 40 pounds of milk daily, or making 11 to 2 pounds of butter per day, is 30 to 40 pounds corn silage, 30 pounds mangels, 8 to 10 pounds clover hay, 4 pounds bran, 3 pounds ground oats, and 1 pound oil cake. If possible, cut the hay, pulp the roots, and mix the bulky feed together for a few hours before feed-Add the meal to the bulky part at ing. the time of feeding. The foregoing amounts may be divided into two portions, and one-half be given to each cow night and morning. The cows should be fed regularly, and each animal should be under close observation by the feeder, in order to note her appetite, response in milk flow, and other conditions. If the feeder finds that the cow can profitably consume more than eight pounds of meal daily, then extra meal may be given. Careful feeders who weigh the milk from each cow will soon learn the limit of profitable feeding for each animal.

ashes are n crops as or striking pplied on its, or the nay be ob-

be applied , but from ed a good but also to the shelter it affords the crops, and the comfort to the homes of the people and stock. All this could be accomplished with a very trifling expense to the country, as almost all the trees required could be obtained in the counties where required. Maple, elm and spruce are found growing wild in most of the counties in Ontario, and if a united effort were made by all the muni-ipalities to this end, the comfort and benefits to the next generation would be incalcuable. I believe if Farmers' Institutes would give this subject a little more prominence in their discussions, a mighty good could be accomplished.

We are glad to note the continued improvement in your valuable journal. May you long continue to wield the pen of progress you now have attained. R. L. HUGGARD. Ontario Co.

### Two-day Institute Meetings.

Members of Ontario Farmers' Institute delegations report to the "Farmer's Advocate" that the two-day gatherings are proving the best attended and most effective. In such cases the meetings can be made very much more of an event for the locality, creating keener general interest and enthusiasm. With a good strong delegation, prepared to discuss subjects of practical interest in the locality, and properly equipped to illustrate or demonstrate what they are talking about, there would seem to be reasonably good prospects of sustaining the usefulness of the work. The two-day meeting gives the people and delegates an opportunity to become acquainted with each other and the prevailing conditions, and to follow up with enquiries statements made from the platform. Delegates become fortified with more intimate knowledge of problems that concern their hearers, and the result is more thorough work, which should be of greater service in planning for another season's campaign.

English literature, and modern and ancient history. It is then thought that he has enough education to make him a farmer, and he is taken from school and put to work on the farm. He has spent fourteen or eighteen years of his life studying a smattering of everything in the educational calendar, except the one industry the special knowledge of which is to determine his success or failure in life. This boy watches the corn plant from day to day as it grows to maturity; but he is altogether ignorant of the method of its growth. He can tell you the name of every Roman that ever spoke in the Roman Senate, but to save his life he cannot explain how the plant takes its food from the air and carries it to the leaves, and there converts it into available plant food. He can relate to you the interesting retreat of the ten thousand, but he cannot tell you how to stop the advance of the army of bugs across his father's potato patch. He is no blockhead. He can take a pencil and paper and draw and figure and prove any problem in geometry, but with all his book-learning, he cannot tell you how the soil can be better tilled in order to better conserve the moisture through the coming drouth. He is disgusted with the farm and farm life, because nothing in his education has ever suggested a way for him to solve problems with which he is confronted, and thus disgusted he leaves the farm and goes off into the city, and we hear of his assionally making a success, but the ninety and nine-no glowing report is heard of them. The boy's education has driven him from the farm. The moment you give him an agricultural education you have solved the question of keeping him on the farm.

"You say that 'we would do this if we could: it is not possible, because our teachers are not trained to teach agriculture.' I believe that if we wait until the teacher voluntarily trains himself or herself to teach agriculture, we will wait until the judgment day. If,

If the cow be kept clean, and the milk be drawn in a cleanly manner, into a clean pail, by a clean person, and be removed shortly after straining, from the barn, there is no reason why winter milk should have a "cowy odor." This "cowy odor" is usually caused by filth which drops into the milk during the milking, or is absorbed by the milk from the foul air in the stable.

Milk should be removed from the stable before it cools to the temperature of the stable air, otherwise it will absorb taints rapidly.

After straining, the milk does not usually require any special cooling other than that which takes place from the cold air, if it be stirred occasionally to prevent the cream rising, and to insure uniform cooling throughout the whole mass of milk. It is also necessary to prevent the milk freezing in order to obtain the best results.

If sent to a winter creamery, it should be delivered at least three times a week. If manufactured on the farm, it should be made into butter as soon as possible after it is drawn from the cow. The longer that milk is kept before being made into butter, the poorer will be the product H. H. DEAN.

It is not simply for the prizes that you offer, but for the store of knowledge one gets every week, which makes me blow your worthy paper. Durham Co., Ont. GEO. STAPLES.



Cheesemaking.

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### By C. N. Ralph.

As the years advance we are also trying to advance in producing better cheese or butter, and in order that we may get the latest and most scientific methods in dairying, it is well to attend a dairy school, but there are some who are not in a position to do so, and to these I would say, engage the instructor, follow his methods, and I am sure you will have no trouble. Again, some makers, who learned the business ten or fifteen years ago, think they know enough without going to a dairy school, or having an instructor either. Well, I would say, if these men would take a course, or even engage the instructor, the cheese and butter business of to-day would be greatly improved, and they would find that a better article could be produced with less labor.

The acidimeter has taken the place of the hot-iron in the most of cases, and I believe in the future it will be found in every factory. I think it is quite possible to have your cheese very uniform the whole season through with it, whereas with the hot-iron there was considerable variation, and the consequences were your cheese were not uniform.

In the two or three seasons prior to 1904, the price for cheese was very high, and in return for this the buyer expects a fancy article. How are we to get this? In the first place we must get in close touch with the farmers, and explain the necessity of cooling and aerating their milk, and I believe it would be advisable to supply each man with a printed card, such as this

#### CARING FOR MILK.

1. Give the cows pure, sweet, wholesome food. 2. Plenty of pure water and salt should be access-

ible at all times. 3. Cows should be milked with clean, dry hands,

after wiping teats and udder with a damp cloth.

4. Milk should be strained and cooled to 60° F immediately after milking.

5. Be sure and have cans and pails strictly clean. 6. Do not keep cans or pails in a place where there

are any bad flavors, such as barnyard or pigsty. 7. Wash all tinware with lukewarm water and a little sal soda first, then wash with hot water; then SCALD with BOILING water.

In the morning get up in time to have all your cheese turned, and 70 lbs. steam on, before any milk comes in, then you can give your full attention to the milk. Do not use any steam till you have 65 or 70 pounds pressure on. Keep your bottom draft closed, or nearly so, and I think you will have no difficulty in maintaining steam throughout, and a great saving will be effected.

See that the vats are clean and free from dust, and weigh in the milk yourself if possible. Refuse any badflavored or overripe milk. Right here is where many a man makes a mistake, by saying, "We got along all right yesterday with such milk, we can do it to-day." If you would send bad milk home, you would be money in pocket at night, have a better average; and last, but not least, you would have a better quality of goods. It is possible to make a salable cheese out of bad-flavored or overripe milk, but if you refuse such you run no chances.

When you have say one thousand pounds of milk in your vat, try it with the acidimeter, and if the acid will allow it, I would heat it up slowly, so that your temperature would be 86° F. when you have the desired quantity in the vat. Try it again, and if it does not show .2, add 1 or 11 pails of starter to a vat with milk Starters should be pasteurized to 180° F., and ripened at a temperature of 60°. In case your starter is not good, I would not use any, as it is a drawback, but I think if a person is clean and careful it is possible to always have a good starter. If you are making colored cheese, it will be necessary to add the color here. In the most of cases 1 oz. to 1,000 of milk is sufficient, except in spring, when more is required. Be sure and stir it in thoroughly. If your milk now shows .2, I would add the rennet at the rate of about 3 ozs. to 1,000 lbs. of milk, Put the rennet in an 8 qt. pail, about 4 full of pure cold water. In the spring use 4 ozs. Stir in thoroughly, and then let it set perfectly still, and be careful there is no draft blowing over it, as this will cause the top to cool, and it will not properly coagulate. You will find it will coagulate in from seven to ten minutes, and 1 would cut early; usually  $2\frac{1}{2}$  times the time it takes to thicken is sufficient. 1 prefer a ? inch knife. Cut very slowly, as this is where the cheese are made. Use the horizontal knife first, by letting it cut its way to the bottom of the vat. Do not show it down so as to smash the curd. the the vat; then with the personale also know out cross wise and afterwards lengthwise. If you only have a } knife I would cut it once more with the horizontal knife lengthwise of the vat. as I believe there is nothing like a good "cook." After you have this ed cutture I would start the agitators slowly : we you have note. I would strongly recommend a McPhetsen take, which, I think, is nearly as good. Have the toth as long a the depth of your vat (good maple wood makes a du ble rake); teeth about 1 in. thick. The teeth die set in a 2x2 inch crosspiece 2 ft. long. Stir the cur slowly at first. Try it as soon as the whey comes t the top freely. It usually shows 14 to 15 points would the slowly for about ten minute and then up gradually, taking about 11 hours from time of orthog till you get it to 98. In some cases it will require

go to 100, or even higher, especially in the fall. If The Fat Testing of Cream by the Babyou find the acid is not developing fast enough, I would turn the steam off at 92°, and keep stirred enough so it will not mat together. When you find it has 16 pts., heat it up to the desired temperature, which is usually 98°, and in the most of cases you will find your curd will work right along. By holding at 92° you retain the moisture in the curd, whereas if you heated it right up you would expel a lot more moisture, consequently the acid will develop much faster at a temperature of 92°. In case it had too much acid after cutting, I would heat it a little quicker Here is where you find the acidimeter a benefit-you know just exactly how your curd is working, and how to go at your work. I prefer to have a curd come along fast enough in order to get about 1-2 or 2-3 the whey off in about  $2\frac{1}{4}$  hours from setting. This helps firm up the curd, and you can get it out of the whey much more rapidly. When it shows .2 acid with whey down, which should be in  $2\frac{3}{4}$  or 3 hours, I would dip it. If all the whey be on, I would dip with .1905 acid. In the spring, when you have a lot of new-milking cows, you will find the acid will develop very rapidly at this stage, and it is well to get it out a trifle soon rather than a trifle late.

After you have it dipped in a clean drainer with racks in, and a good clean cloth over them, stir about three times, and then let set a few moments; then pile up about 8 inches deep for cutting. If your curd is well cooked, this amount of stirring should be sufficient, although there is no rule. At any rate, stir very dry, till there is scarcely any whey running away from the drainer. It is well to try it at this stage, and it ought to show about .3.

(To be continued.)



Alex. Hume, Menie, Ont. President Canadian Ayrshire Cattle Breeders' Association.

Teaching the Calf to Drink.

FOUNDED 1866

### cock Methods.

### (From Bulletin 58, B. A. I.)

Men who used the test daily were found to be at fault in many particulars, and in some instances not the first idea of the principle underlying the method seemed to be in the mind of the operator. Much of this has grown out of carelessness on the part of the user, and much is due to improper instruction given for the use of the test as applied to cream.

It may be stated that a large part of the creamery men are gradually departing from the rules for operating the Babcock test, as prescribed by standard works on the subject. There are various reasons for this, but uppermost is the shortage which these creamerics are experiencing in the overrun or churn yield. In many cases the test is read lower than the instructions would warrant, and in others the methods of sampling and measuring the cream into the test bottle are modified in one way or another. In practically all cases this is not done with any thought of "robbing the patron," as the phrase is commonly put, but it is done with a conviction that present methods are somewhere at fault, and the attempt is made to even things up and still give everybody his due.

Instances were found where the creamery, as operated under the hand-separator system, was getting considerably less butter from 100 pounds of butter-fat from cream than they had formerly obtained from the same measure under the whole-milk system. This seemed to indicate plainly that the method of testing was at fault, for it was justly argued that 100 pounds of butter-fat should make the same amount of butter, whether bought as cream or as whole milk.

The three vital points in making a test are: (1) A true sample of the cream to be tested; (2) an exact quantity of the sample in the test bottle; (3) reading the test accurately. These three statements seem simple enough at first glance, but they are more complex in actual practice, as many a creamery man has been brought to believe when the month's business was checked up.

#### HOW TO GET A UNIFORM SAMPLE.

When the can of cream arrives at the weigh platform, there are some things of importance to be noted. If the patron has used water to flush or wash out the last of the cream after separating, in most cases this water would be in a layer on the bottom of the can. It is possible that thorough stirring at the farm would overcome this difficulty, but usually this stirring is not done, and the water is in the bottom of the can. The portion richest in butter-fat is on top, and there is a gradation which varies with every inch of depth from the richest cream down to the water. The cream may be thick because of the great amount of butter-fat in it, it may be thick because it is sour, or it may be thick from age. The first and most important thing in getting a true sample in any of these cases is to make the cream to be sampled uniform throughout in richness and in physical condition. If this is not done, the first step has gone wrong, and every succeeding step will be wrong just to that extent. The final result will be wrong, and in nearly every case the creamery is the loser and the patron the gainer.

This uniformity of the cream can best be obtained in either of two ways-pouring or stirring. It can er be properly done by shaking. Pouring from one can to another is the best way to do it.

Gently place the calf's nose into the milk, which must always be blood heat. Put a very small amount of milk in the pail, or receptacle in which your calf is fed; one-half inch is sufficient, and push the little bovine's nose down onto the bottom of the pail. It will soon learn that you are performing a friendly act, and will get a taste of the milk and begin to suck, sip and bunt the bottom of the pail. Add to the milk, and continue the good work until the calf gets enough. Do not put in enough to cover the nostrils. One or two such lessons and the calf will readily take care of all the milk that it should have, and will not be so likely to gulp it down to the injury of its digestive apparatus.

### Western Ontario Dairy Instructors.

The Board of Directors of the Western Ontario Dairymen's Association have appointed the following cheese-factory instructors : J. Scott, Cul-loden ; C. C. Travis, Eden ; F. Herns, Strathroy ; Alex. McKay, St. Mary's ; James Burgess Strathroy; Robert Greene, Trowbridge; and Frank Boyes, Dorchester. The following were chosen creamery instructors : C. W. McDougall, Guelph, and Fred Dean, Strathroy. A tenth man will be chosen to take up both creamery and cheese-factory work. A resolution of appreciation of the services and ability of the late Provincial Minister of Agriculture, Hon. John Dryden, was unanimously adopted. The new Minister, Hon. Mr. Monteith, will be interviewed in behalf of the work of the Association.

I had thought of dropping the paper, but the varied and interesting items that are continualchold paper as well as a farmer's guide Mountain St., Montreal, Que. W. ROBERTS.

These methods will answer the purpose in every case except three: (1) The cream may be so thick it will not pour; (2) it may be frozen, or (3) it may be churned. Warm the thick cream until it will pour. If no heat is available for this work, the creamery operator will have to make a guess at the richness of the cream, or test it, and probably overestimate the amount of butter-fat it contains. When the cream freezes, it is the water which crystallizes out, leaving the richer part of the cream in the center of the can. If a test is made of this central portion the result may be from 1 to 20 per cent. too high. It must be thoroughly thawed out and mixed. When the cream is churned, if such cream is received at all, test the buttermilk and estimate the butter.

If a tester by careless methods of sampling makes his average test one-half of 1 per cent. too high, the result will be astonishing. This amounts to five pounds of butter-fat per 1,000, and at a creamery making 5,000 pounds of butter per day the loss would be 25 pounds, or 5 per day, figured at 20c. per pound; in a creamery making 20,000 pounds per day it amounts to \$20 per day. Combine this with the loss previously mentioned and it means a total loss of over \$900 per month, if there be 5,000 patrons and a make of 20,000pounds of butter per day. These losses have actually occurred in many instances, at the above ratio per thousand patrons.

There are two general methods of procedure in practice after securing the correct sample, namely, by testing each delivery as it is made, or by making a composite sample, which is tested each week or semimonthly, or in some cases only once a month.

This is for many reasons a better method than taking a composite sample. The cream is in better condition to test. There is no chance for loss by evaporation, and an absolute check can be kept upon the work each day. The chief objections to it are the



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### THE FARMER'S ADVOCATE.

extra time and greater amount of acid required for doing the work.

MARCH 9, 1905

### THE COMPOSITE SAMPLE.

There are several things leading up to the measuring of the sample into the test-bottle, which will be considered first, as they have a direct bearing on the final result.

The Sample Jar.-When a composite sample is kept, the sample jar is of great importance. It must have a perfectly tight cover to prevent evaporation.

In the summertime composite samples will sometimes show a separation into layers, the lower portion being whey and the upper part fat and casein. Such samples do not look well, but so far as observations go this does not to any appreciable extent influence the test, provided they are thoroughly mixed before the sample is taken. In the winter season it has not been shown that a preservation other than the cold weather is needed. In shaking composite samples to mix preservative and cream, always give a rotary motion to the hand, as this causes the cream to flow around the bottle. A violent agitation will often churn the contents, thus destroying to a great extent the usefulness of the sample.

### READING THE TEST.

This seems the simplest step of all, and yet it has been proven the hardest. Mention has been made of the fact that creamery men were reading the cream test lower than standard instructions warranted. They doubtless reasoned that the test must be too high or they would get an overrun equal to that obtained under the whole-milk system.

If we calculate that about the same amount of fat is held back in the bulb of all bottles, regardless of size of the neck, it will be seen that the differences regularly increase as the necks of the bottles increase in diameter.

Therefore, the shortest rule that can be given to correct the error due to the meniscus (crescent-shaped surface of the fat in the neck of the bottle) is as follows

Read the test from the extreme top to bottom of fat columns; deduct from this reading four-fifths of the depth of the meniscus, and add 0.2 per cent. to the result.

In view of the fact that nearly every error in sampling and making tests tends towards a larger reading than the correct one, the addition of the 0.2 per cent. might safely be omitted and no injustice done to either party of the transaction.

There has been an objection raised against the longnecked cream bottle, to the effect that so long a column of fat necessarily shows more expansion, and greater care must be exercised to have the temperature just right. A careful consideration of the expansion table will not bear out this assertion. Butter-fat expands volumetrically. Cream-test bottles are graduated volumetrically, and will take care of any expansion, no matter what the shape of the neck. With the long scale and the narrow neck the expansion is measured in just the same proportions as in a short scale and wide neck.

The hand-tester will, as a rule, give nearer the right results than the steam-turbine tester, because the fat from the hand-tester is usually read nearer 120°. The steam machine may heat the bottles to 160° F., and if read at this temperature a little calculation will show the nature of the results. If the steam machine is run with the lid raised an inch or two, better results will be obtained. This will allow an air current to be drawn through the machine, and the temperature will thus be kept down. If bottles are placed in a water bath to bring them to the right temperature for reading, they should remain in the bath for twelve to fifteen minutes before being read to insure an even temperature of fat and liquid below the fat, and to Buff Orpingtons excel them. insure a straight line between the two.

tigation. Not all of it can be laid at any one thing, but with careless sampling, loss of cream by spilling, etc., reading the test at too high temperature, and reading the full meniscus, the losses may be found. The differences between the station and the factory tests are in the main due to poor work in sampling and testing at the station. It is a noteworthy fact that the tests at the factory are made more carefully than those at the station. The station tests, as a rule, are made by pipette rather than scales. In most cases a correction table is used to correct the errors made by pipette measure. Although this method gives lower results than with the scales, the faulty methods of sampling, combined with too high reading, still give the station a higher test than shown at the factory, where the samples are usually weighed and more carefully read.

During the past year the creamery companies that have kept any records of their work have been cutting down this difference between tests, and helping to correct the low-churn results. It is hoped that the ideas given in this bulletin will be of some benefit to them ; along this line and the great probability that they have sustained it, although ignorant of the fact.



Stephen Benson, Neepawa, Man. President Manitoba Horse-breeders' Association for 1905.

### POULTRY.

### The Buff Orpington as the Farmer's Fowl.

After reading Mr. Langelier's article in

of the flesh. Surely this is a point in their favor, as corn is the very best grain to finish off on.

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The White Wyandotte is a very nervous lird, and the least excitement seriously effects their laying. In this respect, the Orpingtons are very quiet, and take things coolly.

I have June-hatched pullets that have layed since November, while the Wyandottes hatched the same time, and under the same conditions, began only about two weeks ago. This shows that the Orpingtons are not so slow in growing after all.

Now, in conclusion, while I do not wish to condemn the White Wyandotte, I don't Lelieve they are a perfect bird by any means. I believe any farmer will succeed, whether he Las Orping-tons, Rocks or White Wyandottes, if he gives them proper care and attention. C. E. BROWN.

Waterloo Co., Ont.

### Care of Laying Hens.

Where pullets for laying are raised, it is well to separate them from the cockerels early. Unless the latter are of special value as breeding stock, it is best to dispose of them as soon as they are fit for market. The pullets are thus given a better chance, and will come forward more rapidly. Pullets will lay earlier if moved to their house early, so that they may become thoroughly accustomed to their new home. Moving hens or pullets to new quarters always checks their laying instinct. Laying stock should be so managed as to keep them free from lice, in good condition, thoroughly vigorous and active. In order to keep them active, no better means has been devised than giving them all dry grain, scattered over a thick layer of straw. This should be placed in a scratching-shed, or in the regular pen if there is no scratching-shed. This straw should be changed as often as may be necessary to keep it fresh and clean.

Every flock of hens should have a dust box, which should be of sufficient size to accommodate a considerable number of birds at one time. It should be kept where the sun will shine on it. If given access to a good dust bath there should be comparatively few lice. Still, where hens are kept in close quarters the dust bath may not be sufficient; hens should occasionally be dusted with good insect powder. To do this a good way is to hold the hen by the legs in a small box, shake the powder among the feathers, and by rubbing make it reach all parts of the body possible, especially under the legs and wings. This should be done thoroughly. The box will catch whatever powder falls, and this, of course, may be used for other hens. 'The fowl should be carefully watched, and whenever lice appear insect powder should be used. As a further means to keep down these pests, the roosts and nests should be occasionally washed with kerosene. Hens infested with vermin are uncomfortable, and will not thrive nor lay well.

Everything around the fowl should be kept as clean The water dishes should be rinsed every as possible. day, and washed at least once a week. Fresh water should always be supplied and changed daily. The dishes should be placed so that the hens will not scratch them full of dirt, and yet not so high that they cannot be easily reached. If the house has a passage in it, the water dishes should be placed so they can be reached from the passage.

Hens should be furnished with plenty of sand or gravel for grit. This will probably furnish all the grit needed, but if it does not contain good sharp

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#### INCORRECT READING OF TESTS AND THE FINANCIAL RESULTS.

It has been stated before that a difference in test of one-half of one per cent. would amount to \$1.00 for every 1,000 pounds of butter made, if valued at 20c. per pound. In the preceding discussion it is shown that in the matter of reading the test alone a difference of 1.7 per cent, can be made. Figured on the same basis as the above, this would equal \$3.40 per 1,000 pounds, or \$68 per day on an output of 20,000 pounds.

The methods of operating and the basis of paying for butter-fat in the centralizing plants give the farmer all there is in it. In other words, the farmer in most cases gets a price for a pound of fat or the cream containing it, which, together with the transportation charges on this cream, will equal the selling price of a pound of butter. The creamery must make its profits and pay its running expenses out of the overrun it is able to obtain. If this overrun is cut down through mismanagement of any kind, profits are gone. Instances are now on record where concerns have become bankrupt through bad management along these very lines. The test question is but one item in the way of successful operation, and the things pointed out in this bulletin are not all the corners that must be watched in getting a proper overrun; but so far as the testing goes, this bulletin points out the dangers which are of vital importance to the creamery manager.

The butter-fat paid for and the butter-fat received are found by testing at the station and at the factory Where this was checked against a low churn yield, this and the difference between the test called for an inveslate issue, one would think that the White Wyandotte was the only breed worth keeping. Now, I think I can give a number of points where the

In the first place, in the different experiments carried on at the O. A. C., the Orpingtons have laid more eggs than the Wyandottes by nearly fifty per cent. during November, December, January and February, when eggs were at their highest prices. And this is the time we want lots of eggs, and not in the warmer months, when eggs are selling away below zero.

He states that the W. W. is the king of broil-I should like to ask where the profits come ers. in for the farmer to raise them. I know for a fact that the average life of a broiler-plant in the U.S. is five years, and in Canada I never heard of one paying.

With regard to Rocks and Orpingtons going off their feet, I have seen plenty of White Wyandottes go off as well. There is no breed perfect in this or any other respect.

Again, he says the White Wyandotte is the most profitable market bird. Let him consult his Government bulletins for facts. The Orpington is as quick a grower as the White Wyandotte and it is no uncommon thing to see them weigh over five pounds at four months old. If they are such excellent birds as he says, why don't they make a good showing in the dressed class at the great "Ontario" Show. Last December, there was not a good dressed White Wyandotte in the show, the Rocks and Orpingtons far outclassing Also, in the class for utility pen here the them. Orpingtons and Rocks took the lead.

In feeding for the British market, the Orpingtons take the lead, as they are white fleshed, and the feeding of corn has no effect on the whiteness

grit, then they should be supplied with artificial grit; otherwise they will fail to digest their food thoroughly. The grit should be kept in a box where it will not become fouled, but where they can easily reach it. Laying hens should have all the oyster-shells they will eat; but if they are not laying, these are not required. It is a good plan to keep broken charcoal where hens can reach it, as it appears to exercise a very good influence upon the health.

There is still much diversity of opinion as to the proper method of feeding for eggs. A very good method is to put all the kitchen scraps into a kettle, and cook every evening, adding salt. In the morning, heat the second time, and scald with the scraps one pint of bran and one pint of a mixture of equal parts corn meal and ground oats; to this add a small quantity of scraps. The mash, when completed, should be dry and crumbly. At noon feed wheat in the straw; at night mixed grain; and in their mash give sulphur twice a week. If this is done condition powders should not be needed. Some poultrymen claim the mash should be given in the evening instead of in the morning, since the hens are more likely to become sluggish after a fed of mash than they are after a feed of grain, where it is scattered in the straw. As exercise is essential to health and good egg production, it may, therefore, be best to keep the hens at work during the day, and give them their mash before going to roost.

The house is very important for the laying hens. It should be sheltered from north-west winds, if pos-Sunshine is a very desirable factor, hence the sible. house should have windows on the south, if it is possible to build in that manner. Farmers often make the mistake of putting in too much glass. With too many or too large windows, the house is too hot during the hours of sunshine and too cold at night, and fowl suffer frequent colds. On the farm poultry are often kept in a part of the barn partitioned off from the rest. If the room can be made on the south side, In such a way that it will be warm, light, and well

ventilated, it will do very well. The cost of a honhouse is not necessarily great, but without doubt they are usually far too cheaply constructed. One should not go into poultry-keeping on any extended scale until one has decided to make it a paying business.

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Perth Co., Ont. A FARMER'S SON.

### \$2 Worth of Eggs From \$1 Worth of Feed.

In answer to your query, would say there is not much choice between Rocks, Wyandottes and Orpingtons, with a preference for the whites or buffs. These medium-sized breeds are undoubtedly best for farmers, and compared with the larger, feather-footed tribes, they have more activity, produce more eggs, and, up to six months of age, more meat; also, consuming less food, not such persistent sitters, but sufficiently broody for all practical purposes, and mature more quickly, and, as compared with the smaller breeds-Leghorns, Minorcas and Hamburgs-they are large enough to be of greater use on the table, lay larger eggs (Minorcas excepted in this point), and at a time of year when eggs are hardest to procure, will sit (thus capable of producing their kind without the use of incubators), not so fond of stealing away their nests, take more kindly to yarding and housing, will withstand more severe and changeable weather, with the same housing, without showing any bad effects resulting therefrom. The whites or buffs of any breed are preferable, as the pinfeathers are white, and do not discolor the dressed poultry when killed a little off in condition. There is no breed BEST for eggs, but there are strains of every breed better than other strains of the same.

In feeding, I try to follow, in part, Prof. Gilbert's teachings. Morning, first thing, a little tasty mash, but not more than a pint to twentyfive hens. Then stir up the litter, and scatter a half pint of screenings; this again at noon. Open up the windows and doors, unless storm beats in. During day, clover leaves in trough, also apples and apple peelings. I like to hang cabbage and mangels for them to pick at-high enough that they have to reach or jump for them. I think it best to feed the green bone or other animal food about two hours before sundown each day, about one-half ounce to each hen. Then gave a final feed of grain in the straw, about two quarts to twenty-five hens. Then, at sundown, give a mash composed of cooked potatoes and peelings, with any kitchen scraps, with chop and shorts stirred in until stiff - all they will eat. Water, grit and oyster-shell at will. I think wheat the best all-round grain, if we were compelled to use only one kind. Always, when wheat is high, eggs are dear also, so we can draw a safe conclusion.

Have had eggs all fall and winter in good supply. Have kept account, and have sold more than \$2.00 worth of eggs for every \$1.00 worth of feed consumed. And in growing early chicks for market, have had \$3.00 for \$1.00 cost. I find I can raise chicks to eight weeks for \$8.00 per hundred, and make them ready for market. Yes, my hens pay and pay well. J. R. H. -Wentworth Co., Ont.

### A Flock with Swollen Heads.

whatever in killing them. Those that are but slightly affected would, in all probability, be fit for food, but if the bird was at all seriously affected it would be best to bury or burn it. If there is a possibility of isolating the birds, try and put them in a fairly warm place. Feed them some raw onions, cut in small pieces. It would be well, also, to use some permanganate of potash in their drinking water. If there is any discharge from the nose, in many cases, it is beneficial to inject coal oil in the nostrils and the mouth. This can be easily done with an ordinary oil can. If the birds simply have swollen heads, and no discharge and no white growth in the mouth, I think there would be little difficulty in treating the birds, by simply giving them a good dose of salts, say, a teaspoonful between two, and keeping them in a warm place where there is no draft. At this season of the year, in cases of this

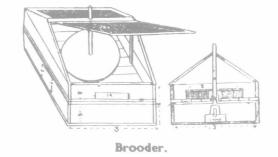
At this season of the year, in cases of this kind, one should be very careful to examine the throat and roof of the mouth of the chickens, as in many cases they are covered with white patches, or what is known as canker. Canker is a very bad disease to treat, owing to the fact that in many cases the birds will show no inconvenience whatever until their mouth becomes so sore they cannot eat at all. It will also spread rapidly. If there are only one or two cases, it is best to kill the birds, or, if one wants to treat them, remove the white growth from the mouth and burn the spots with silver nitrate, ordinary strength, as sold by druggists. W. R. GRAHAM. Ontario Agricultural College.

and Agricultural contege.

#### The Brooder.

Directions how to set up and operate a brooder for incubator-hatched chicks will accompany the brooder, if one has been purchased with the incubator. There are brooders for inside and outdoor use. I speak only of the latter. I enclose a cut and description of a brooder which is easy to construct and satisfactory in operation. It was obtained by me from the Montana, U.S., Experiment Station, and is described as follows:

" A box is made three feet square, and of four pieces of eight-inch lumber, surfaced. Upon the top of this box, for a cover, is nailed a piece of zinc entirely covering the box. This zinc has a hole in the center, over which is soldered a pipe 11 inches in diameter and 22 inches long. This pipe is soldered on the outside, the metal being the top of the box. Next comes the floor over this zinc, but not touching it because an inch strip, 1 by 1, should be nailed on around the outside in order to make an air space between the floor and zinc. This strip should be broken; midway on either side an inch opening should be left for the admission of outside air to the space underneath the floor. The floor should be made of ceiling, smooth surface up. Exactly in the center of this floor a hole should be cut 21 inches in diameter, and in this hole a pipe 21 inches in diameter and 3 inches long fastened. This pipe should extend just through the floor, level with the underside of the bottom. Through this pipe the long ventilating pipe This completes the body part of the brooder. will go. and a hover and top complete the requirements. The



done satisfactorily, I would have no hesitation business is to be conducted upon a larger scale, either whataver in killing them. Those that are but coal or wood heaters with pipe system is best.

"Hot water incubators are out of date. Hot air is more controllable. A cheap incubator is not always a good investment."

Will the brooder rear the chicks as well as the hen mother? Yes, if the chicks are strong and robust, as all chickens ought to be. Weakling chickens die in the brooder. The mother hen simply kills them by inadvertently stepping on them at night. It is a case of the survival of the fittest. Chickens which require to be molly-coddled ought to be allowed to die. They are probably constitutionally depraved. They should not be bred from if they survive, and are not likely to make desirable specimens for the table. Something may be said on another occasion as to the best rations for chickens from nest or incubator to the laying or marketable age. A. G. GILBERT,

Central Experimental Farm. Poultry Manager.

### Is Your Poultry House Too Warm?

The editor of Farm Poultry expresses himself on a question of interest at this season to poultrymen, which we subjoin for our readers' benefit :

"I have often gone into a closed house about noon of a winter day to find the house shut tight—water trickling down the walls, the litter on the floors damp, the atmosphere 'rank,' and the fowls presenting a decidedly debilitated appearance. The keeper would, perhaps, explain that they usually open up, but 'didn't get around to it to-day.' I know just how that is myself. I've 'been there.' It happens not once, but often. The days in winter are short, and there is much work to do. A man gets busy with something else, and either forgets his ventilation, or puts it off.

It was because I saw so much of this, and found so much evidence of it in my correspondence re'ating to sick fowls, that I decided to try the experiment of using cold houses, practically going back to the plan of housing commonly used a generation ago. In addition to the common troubles in using close, warm houses, there were a few positive considerations in favor of getting somewhere near an open-air basis. First of these was a re-ollection of sundry instances of very good laying in very cold houses and open sheds Next, an occasional experience of that kind with hens put in cold quarters, when other quarters we:e overcrowded, or when it was desired to keep them from laying. Next, the fact that in most scratching-shed houses the open shed was the favorite room of the hens, and, in a number of cases, where, because of lack of room, poultrymen used the open shed for one flock day and night, and the closed roosting-room for another, reports were that the hens that lived and roosted in the shed kept in better condition, usually laid as well, and often laid better than the others.

" My experiment with cold houses was the result of a conviction, to which I was gradually led by such reasons as I have briefly stated above, that the almost universal efforts of poultry-keepers who were trying to make poultry pay, to make hens lay by keeping them warm, were not giving expected results in egg-production, and were giving some very undesirable results in debilitated and diseased fowls. What I have done with cold houses, and what a few others are doing, seems to me to show that, given fowls that can stand the frost, it is easier to keep them healthy and hardy in cold houses in which there is a good circulation of air, than in warm, closed houses."

I have eighty hens in a herinouse  $18 \ge 24$ , well lighted, well ventilated. Have been fed warm mash mornings, mixed grains during the day. Have been laying fairly well, but now 1 notice about one-third of them have swollen heads, some of them are swollen blind. Can you tell me what the cause of it can be? J. W. B.

Would say that eighty birds in a house  $18 \ge 24$  are most too many. I think that seventy is nearer the number than eighty, and perhaps sixty would give as good results as seventy; that is, unless the birds have free access to an open shed attached to a barnyard near by, in which case eighty birds in the house the size you mention would not be too many.

I do not think that the method of feeding would have anything to do with the birds have swollen heads, with the exception that the mash feed would be more favorable to the spread of an epidemic, especially where there is a discharge from the nostrils, than whole grain would be. Where there is a much tool, tool and ange from the nostrils, one can readily of or less of the discussion of many working nostrils to the feed with the seat I am inclined to believe that the due to a draft of some description, or elwater that is not clean, or a drinking vessel while is not properly cleaned; that or less slimy on the sides. The does not state whether there is from the nose or not. We rarely swollen heads with no discharge. discharge from the nose, the disease of the types of roup, and all the sick burds sho the isolated. I would recommend the use of pr of pertain as can be held on a bacent piece to a gallen of drinking water. The birds that at sick should be isolated, but where this cannet b

hover should be made in the form of a circle two feet in diameter; in the center a hole large enough to allow the vent pipe to pass should be cut, and four legs three inches long tacked on to raise it to the required height; then tack a light fringe of jute sacking around the edge only. This is the hover complete.

"Next is the top. Make another box similar to bottom, using four pieces of six-inch lumber, dressed. Upon opposite sides a piece cut with a double pitch, three feet long and one foot high in the center, should be nailed to form the ends and the apex, and joined with a piece 34 inches long and  $2\frac{1}{2}$  inches wide, cut with beyel to allow the screen doors, which should constitute the two sides of the roof, to fit snugly. This box portion should have a little door cut in it, and an incline made for chicks to run in and out of the brooder.

"The working of this brooder is extremely simple. A brooder stove is placed under the box, and it heats the metal cover; this in turn heats the air in the space between it and the floor. This air, on being warmed rises upward through the 2½ inch pipe and lows out over the chicks that are underneath the hover. Sime this air comes through the holes between the 1 by 1 inch strips and does not come in contact with the 'mp, a pure and constant supply of air is insured, givber almost perfect ventilation in addition. These trouders serve the purpose very well where only a leasted number of chicks are to be raised, but where the

### Egg-eating—Lice.

To the Editor "Farmer's Advocate":

There is a great deal of complaint from some quarters about hens eating eggs, and also feather eating. If hens are fed plenty of meat or ground bone, I do not think there would be any trouble with hens eating feathers. I have found from past experience that if hens do not receive plenty of meat they will take to pulling out each other's feathers, but when I have supplied them with ground bone and meat the habit ceased. Some years ago I was troubled with my hens eating their eggs, and a friend advised me to boil a piece of lime in their feed. I did so, and in a few days the trouble ceased. I have always found that the habit commenced by the hen laying soft-shelled eggs, and then accidentally breaking them. After that, as long as the shells were thin, they would break them. I have had a few persist in eating eggs. Some I have cured by cutting off the sharp point of the bill, and if the shell was hard could not break it. I never use patent egg-boxes, or any of those things advertised for egg-eating hens. I give them lime if there is not enough taken to make shells hard. I feed them some in boiled feed. This year I noticed a few eggs with soft shells, and boiled a few pieces of lime in wheat, fed it to them, and the trouble ceased. That was last week. This week every egg has a shell that will resist a pretty good blow from a hen's bill. I would advise the farmers to try the lime, and if there is one of two that persist in eating eggs, take the head off.

By feeding as I suggested I do not think there



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#### MARCH 9, 1905

### THE 'FARMER'S ADVOCATE.

will be any trouble, but it is well to watch, for it is far easier to prevent than to cure.

One of the greatest difficulties I have is to keep hens clear of lice. It requires more attention than anything else. I have tried different remedies, and find sulphur and carbolic acid the The walls and roosts should be whitebest. washed, every crack filled. In the whitewash put a quantity of carbolic acid. The hens should be thoroughly dusted, and a quantity mixed in their dust-pan with the dust; also, roosts sprinkled with it. Keep henhouse clean, and the birds healthy by making them work, and have healthy quarters. Keep watch over the birds, and as soon as a louse appears, go over the whole flock with suphur, and I think the birds will be J. B. POWELL. reasonably free from lice.

### GARDEN AND ORCHARD.

### The Fruit-growing Business.

To the Editor "Farmer's Advocate"

Sir,-All fruit-growers will agree with the writer in the statement that the present conditions of fruit-growing are unsatisfactory. Surely if the old cry, "It is time for a change," applies anywhere, it applies to our The prices of other food products have adbusiness. vanced materially, but the wholesale prices of our fruits have not advanced in proportion. Nevertheless, the retail prices of fruit are often very high, giving tremendous profits to the retailer, while the producer is going bankrupt. The cost of labor, too, has advanced so rapidly that the hired man sometimes gets nearly as much net cash out of his time as the owner of the fruit farm who employs him.

For many years it has been the custom to exaggerate the profits of fruit farming, a course well calculated to boom the sale of fruit farms and the sale of nursery stock, but otherwise not in the interest of the fruit industry. Quotations of exceptional profits encourage large plantings, cause increased competition, and often lead to overproduction and to consequent disappointment. A few years ago, for example, an acre of plum trees near Winona, in the Niagara district, was said to have given the owner the enormous gross income of \$1,000 in a single season ! Forthwith it was claimed that a plum orchard in that district might be expected to yield an income of \$1,000 per acre! As a consequence, immense orchards of plum trees were planted in many parts of the Province. I leave it to the readers of the "Farmer's Advocate" to say whether it is doing justice to the fruit industry, or is fair to the public, to give such instances as showing the probable profits of plum culture.

Only last autumn an instance of exceptional profits in apple-growing in the Annapolis Valley, Nova Scotia, was heralded far and wide. An orchardist there in 1903 claimed to have received at the rate of \$500 an acre from his apple orchard. Is that a fair example to give the public of the probable receipts from an apple orchard ? Is it not rather most misleading ? I cannot understand the object of such publications, except for the purpose of booming the price of land.

I am not pessimistic; on the other hand, I have ever been most enthusiastic over fruit culture, devoting my whole farm to it, and making it my life work. I have met with great disappointments, in view of the increase of fungi and insects during the last thirty years, and the great shrinkage in prices.

Last year I think I was more than usually dissatisfied with the sales made for me by commission agents. example. I placed large consignment of the finest Bartlett pears, packed in half-bushel cases, with a certain commission merchant, asking him to hold them in cold storage for advanced prices. Either because he had Bartletts of his own to put out first, or else from sheer neglect, he did not offer these pears for sale at the proper time, and reported me the sale at four cents a box ! Nor is this the first instance of similar results from fruit, so consigned to other houses in other cities. Does it not look like a combination to prevent, the grower from getting the high prices ?

the price for the season, why cannot peach-growers always spot, when you can as well top-graft them to agree that XXX yellow-flesh peaches, for example, shall be worth for the season a minimum price of  $2\ {\rm or}\ 3$ cents a pound, f.o.b., and white-flesh, 11 to 2 cents a pound? Why cannot the grape-growers agree on a minimum wholesale price of black grapes and white grapes for the season, of say, 11 cents a pound, f.o.b., and of red grapes of 2 cents - pound? If selling agents are agreed upon, they would be instructed a long time in advance of these prices, and asked to take orders for as many pounds as possible early in the season at these prices.

3.-We should seek to unite in co-operation with all present organizations, so as to make as little new machinery as possible. The Ontario Fruit-growers' Association, under Government patronage, is just now forming local fruit-growers' associations in every part of the Province, which are to send representatives to the annual meeting in Toronto in November of each year. Why should not this association, being so representative, do something toward developing the business side of our industry ?

4.-The Niagara District Fruit-growers' Stock Company has been a long time in operation, and has an extensive list of agents who are responsible men. They already have a splendid business organization. I'crhaps they would adapt their methods to our needs, and have their agents solicit personal sales in advance of shipments, agreeing not to offer at any time any goods from any source below the minimum price agreed upon, providing at the same time that all large growers would agree not to compete with them by shipping to other dealers in the same town, unless it be on f.o.b. sales, not less than the minimum wholesale price agreed upon.

5.-We need to unite over the price of labor. Fvery year the workingman has been asking a little advance. First it was \$1.00 per day, then \$1.25, then \$1.50, and now some are talking \$1.75. This comes in part from want of a union of employers. If we agreed upon a



President of the Dominion Grange.

mum price of 25 or 30 cents a bushel for tomatoes as Fall Pippin and Early Harvest and Snow apples that Duchess, Gravenstein, Blenheim, Wealthy and Baldwinvarieties that are seldom affected ? And so on through the whole list. It is to assist growers in this particular line that the Department of Agriculture has established the Ontario Fruit Experiment Stations, the reports of which are from year to year of increasing value.

> 8.-We must plant with a view to the export trade. Our home markets are already glutted; but there is room abroad for all we can produce, if we grow those things that will carry. And just here is one great advantage to be gained by a local union of fruit-growers. The members of such a union should agree upon planting those varieties which will export well and bring top prices; and they should plant or top-graft their orchards with these varieties. The union will then be able, after a time, to put up car lots of a single varicty, packed in uniform grades, and to export this variety with a handsome profit. Take the Bosc pear, for example, or the Howell, or the Louise, or the Pitmaston, and there is no limit to the quantity that can be exported to Great Britain, with a certainty of profitable returns. Any one of these could be very wisely selected as the export pear for any local union, and all present trees could be top-grafted with it. It would not be long before the members of such a union in Ontario would find themselves making money quite as fast as any California growers. To bring the best results, such pears should be graded to size and quality, and carefully wrapped and packed in the half case, measuring inside 5x11x20 inches.

9.-We must use uniform packages. To this end the Ontario Fruit-growers' Association, at a recent meeting, proposed that the apple box for Ontario measure, inside, 10x11x20 inches, and now, after a year's satisfactory trial, I notice that the Hon. Sydney Fisher has fixed this as the legal standard apple box for the whole Dominion.

10.-We must have perfect cold storage for the export of fruit. That this is imperfect in some important link, I am satisfied, because of my frequent failure in the export of Bartlett pears, which so often reach Glasgow in an overripe condition, no matter how green and hard packed. Besides, I have found that packages of the same fruit, picked and packed in the same condition, and held in cold storage in Ontario until after the sale of those shipped to Great Britain, were still firm and hard.

We should be able not only to export our best pear, the Bartlett, but also our best peach, the Early Craw-If we could export this peach with success, and get for it the English price of \$3 and \$4 a bushel, we would say no more about unprofitable fruit farming.

The accompanying letter from an Australian firm just to hand, shows a fine opening for both our apples and pears, if we can obtain cool air space on the steamers between Vancouver and Sydney.

Surely the problem of successful fruit-growing is not beyond solution. Surely the conditions laid down in this paper are none of them very difficult of attainment by a set of men whose pockets are so deeply concerned as those of the Ontario fruit-growers.

LINUS WOOLVERTON, Secy. Ontario Fruit Experiment Stations.

### APIARY.

Fruit Injured by Crickets, not Bees.

By Morley Pettit.

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om some o feather r ground 7 trouble ind from ve plenty h other's em with s eating o boil a and in a always hen lay ly break ells were ad **a** few cured by nd if the ever use s adverlime if hard. s year I boiled a em, and This resist a ould adthere is take the

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I have still faith in the future, but in our own best interests I contend that we should own up to the dark as well to the bright side of our industry, and ask curselves how we can best meet and overcome the present unsatisfactory situation.

#### SOME SUGGESTIONS.

Now let me touch upon one or two means of reaching improved conditions, which may at least serve to provoke discussion among experienced fruit-growers. The keynote to the whole thing is, of course, co-operation; and first we must unite over methods of sale. No other people on earth sell their goods so foolishly as the fruit-growers. They ship in the dark to a market about which they know nothing (it may be bare or it may be overstocked); they do not even put a minimum selling price upon their goods, but instead leave the price-making to the buyers, whose interest it is to make it as low as possible. Is that business? Is it not rather the height of foolishness ? And is it any wonder that we sometimes get barely enough returns to pay for baskets and for picking ? Surely, after the experience of the past season, even the most cranky fruitgrower will be ready to cry out in favor of a union of fruit-growers, representing all local organizations.

2.-We should agree on a minimum price for each fruit for the season. This much is surely an easy possibility. If tomato-growers can agree on a mini- Black, Reine Hortense and Montmorency? Why grow

proper scale of wages, there would still be the same number of men in the section, and they would be more settled. If you consult the report of the Bureau of Statistics, you will find that farm labor, though it has advanced in value, is not nearly so much advanced as our workmen would have us think. Two hundred and fifty dollars a year, to two hundred and seventy-five, with certain privileges of house and firewood, and perhaps a garden, is about the average throughout the Province for yearly engagements. But our fuit-growers, liberal souls, who are making so much money out of fruit farming, are paying \$300, and in some cases \$350 a year, with the said privileges. Will our business afford such wages ? Anyway, I think we should agree on a maximum, instead of competing over each other's workmen. We can secure men from outside without advancing the scale of wages, if we properly advertise our need of them.

6.-With the present high rate of wages, we should work smaller fruit farms. The twenty-five acre man can make far more money in proportion to his investment, than the fifty-acre man. He can handle it all himself, and save the \$500 or \$600 of the solid cash that would otherwise go in wages.

7.—We must grow only the best variaties. I do not believe there is a man of  $3\sigma$  who does not grow a large amount of inferior fruit, for which he gets secondrate prices. How many poor varieties of pears, of peaches, of cherries, of apples, etc., are there in every orchard? If those Triumph, Louise and Longhurst peaches do not pay as well as Yellow St. John, Crawford and Elberta, why it is high time to root them out, and to plant the latter. And the same rule should apply to all fruits. Why grow Yellow Spanish, Rockport and Elton cherries, which always rot, when you can have clean, rot-proof Clevelands, Knight's Early

H. Garman, Entomologist and Botanist of the Kentucky Agricultural Experiment Station, has a bulletin on an injury to fruit by insects and The skins of ripening grapes, peaches and birds. plums were frequently found to be cut by some unknown agent. Brown rot set in in some cases, and in others bees carried off the juice of the fruit, and received the blame for having cut the skins. In September, 1904, Mr. Garman conducted experiments, and made observations which prove conclusively that in spite of the effective manner in which they use their jaws against robbers and in cutting the caps of cells, the bees were not responsible for breaking the skins of this fruit.

It was observed that plums that were perfect the morning remained so at night, and no in matter how close a cut plum hung to a sound one they never touched the latter. To test them, he more than once removed cut plums from clusters, thinking that when they found their forage gone they would cut the next plum. They returned again and again, circling through the vacant space, but in no case did they show the slighest disposition to attack the other plums. Then he began to take paper sacks from plums that had been enclosed to protect them from rot. These plums generally came out of the sacks in perfect condition, and when exposed in the morning remained perfect the following evening. But the next morning some of them were generally with small, fresh-cut holes in their skins, and the bees soon came to them

This led to the conclusion that some nocturnal insect was the culprit, and on the night of September 11th, Mr. Garman observed snowy tree-crickets (Oecanthus nivens) cutting holes in plums. Peaches were found to be attacked in the same way. Two nights later, Mr. Garman



examined a bunch of Concord grapes, from which a sack had been removed during the day, and found a cricket cutting a hole in the skin near the stem of the grape. When captured, it proved to be Oe. angustipennis.

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Here, then, was the solution of the puzzle. The crickets were cutting the fruit. The honey-This is but bees were simply following them. added testimony to the fact that honeybees do not cut the skin of fruit. Elaborate experiments were described in the Rural New Yorker a few years ago, and were repeated at the Central Experimental Farm, Ottawa. In these the bees were confined in a room without food, and fruit of various kinds exposed in the room. They would run over the fruit until it was polished, and whenever the skin was broken, would go in and devour the contents, but rather than cut the skin would die of starvation

NEWS OF THE DAY.

#### Canadian.

Mr. E. F. Clarke, M. P., of Toronto, one of the foremost politicians of the country, died on March 3rd from heart failure, following pneumonia.

### The Dominion Minister of Railways has announced plans for improving the terminal facilities, docks, etc., of the Intercolonial at Halifax, by an expenditure of \$1,000,000.

Messrs. H. and A. Allan, of Montreal, have signed a contract with the Dominion Government for a steamship service to France. The contract has been drawn for three years, and four vessels, the Laurentian, l'omeranian, Sardinian and Buenos Ayrean will be employed. Each will be fitted with cold storage. Preference will always be given to Canadian shippers, against whom there will be no discrimination in freight rates.

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A big power plant is to be established by the Edison Sault Electric Co. on St. Mary's Rapids, near the "Soo" locks, in the immediate future. It is estimated that \$120,000 will be spent on the plant during the coming summer.

The County Council of Halton, Ont., has decided to erect a house of refuge for the poor of the county.

The naval station at Esquimalt has been formally abandoned, and all naval departments of the station have been closed.

Experts have expressed the opinion that the oil fields known for some time to exist in Alberta may prove to be among the richest in the world.

### British and Foreign.

All the universities and colleges of Russia have been temporarily closed by the authorities.

Sir Henry Irving, the famous English actor, has collapsed from overwork. He is nearly seventy years time Government. of age.

A serious revolt against the Turkish Government has broken out in the Province of Yemen, Arabia.

trains will be run as soon as practicable. Among the many obstacles encountered while carrying on the work the most serious were hot springs, which so heated the atmosphere at times that work had to be discontinued until means of cooling it were found.

The decision of the International Commission of Inquiry into the North Sea incident was publicly announced in Paris on February 25th. It has been definitely proved that there were no torpedo boats in the vicinity at the time of the catastrophe, and Admiral Rojestvensky has been censured for his precipitancy in ordering the guns to be fired. At the same time, it is acknowledged that he acted under the mistaken idea that the trawlers were really torpedo boats, the Russians having been advised that such an attack was likely to be made in the vicinity. Russia had agreed in advance to indemnify the Hull fishermen, and the question of punishment or reprimand will be left in her hands. The expenses of the commission were estimated at \$150,000.

Fighting of the most desperate character has again been reported from Manchuria, and once more comes the news that Kuropatkin is about to retreat northward. His position has, for some days, been not unlike that which he occupied before the retreat at Liaoyang, the Japanese having crowded upon him on three sides, so that his army lay in the form of a wedge, with Pouteloff Hill, where the fiercest bombardment has been raging, at the small end of the wedge. The news now comes that the right wing has been rolled back from its position, and an unconfirmed despatch states that 250,000 Japanese have broken through the left wing, and that, consequently, Kuropatkin has telegraphed to the Czar that he is in extreme danger. However that may be, the fact remains that the Japanese are within six miles of Mukden, and the impression is general that Kuropatkin has again sustained a crushing defeat. The carnage during the past six days has not been equalled at any similar time in the war, the number that has fallen being estimated at 100,000 men. Japan's next move will probably be to close upon Mukden, which the Russians are making a desperate effort to retain.

### THE FARM BULLETIN

Malcolm McF. Hall has been appointed Manager of Halifax Exhibition,  $t_0$  succeed J. E. Wood.

Seeding is in progress in the warmer sections of the Canadian Northwest.

The surest way to make a profit is to keep down the cost.

Dr. Oronhyatekha has resigned the Presidency of the Farmers' Co-operative Harvesting Machine Company, Limited.

The County Council of Victoria has passed a by-law adopting a county system of roads, and will raise \$100,000 to commence improvements on the 200 miles of roads to be taken over.

Another party of students from the Argentine Republic is to attend the O. A. C. at Guelph, Ont. number has, however, been limited to six by the Argen-

Mr. Corby Bromfield, who has been in Canada investigating trade conditions for an English firm, has expressed the opinion that there are great opportunities for English manufacturing establishments to set up works in the Dominion. Let them come.

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### Our English Letter.

If we had had the making of our weather, we could hardly have had a more favorable winter for agriculture than the present one of 1904-5. Consequently, the plowing was never more forward, and the frosts we have had provide a beautiful seed-bed. Many farmers, indeed, seized the opportunity to put in their seeds before the middle of February. The lambing season is now well on in the west and south of England, and, judging from reports to hand, and also from my own observations, the results are altogether satisfactory. For the moment, indeed, "every prospect pleases."

The Argentine wheat crop is now reported as likely to be ten per cent. less than last year, and in Australasia it is probable that the exportable surplus for Europe will not exceed 1,500,000 qrs., as compared with 4,000,000 qrs. last year. This means that the shipments, which from January 1st to June 30th, 1904, averaged 100,000 qrs. per week, may not exceed 50,000 qrs. in the same period this year. Russia is the "dark" horse at present, and the Indian crop, on which so much depends, would still appear to be in a somewhat doubtful state in certain parts owing to very severe weather. For the moment, therefore, the wheat market presents many interesting features

In the flour trade, it cannot be said there is any improvement in prices, but there has certainly been a better demand generally. There is a good enquiry for strong American patents, but these remain almost unobtainable, although some "blank" sellers are accepting rather low prices for forward delivery.

In maize (corn), firmness in La Plata and weakness in new American corn continue to be the prominent features of the market. La Plata landed makes \$5.58, and mixed American only \$4.98. Buyers do not, apparently, like the condition of American maize this season, hence the comparatively high price obtained for sound La Plata corn.

Although the cattle trade has not been up to the mark for some time, prices had been well maintained. In Smithfield market, despite the fact that United States chilled beef has been in very moderate supply, prices show a material Argentine chilled beef has been fairly decline. plentiful, but some recent consignments have arrived in indifferent condition, and a few quarters have been condemned. The quality of the meat is, however, excellent, consisting principally of young, well-finished beef. A trial shipment of live sheep from the Argentine has reached Antwerp, where the sheep were slaughtered and the meat sent on to the London market. The price realized is reported to be 111c. to 12c., and these figures will probably lead to further shipments.

Cheese.—The demand is not brisk, yet the trade may be described as steady. Some Canadian cheese of faultless quality was sold at 114c. for colored, and 11%c. for white. A nice shipment of 4,760 packages cheese has been landed this week from New Zealand, and has met with a good reception, is of excellent quality, and said to be in better condition than some of the Canadian product.

The market for apples has been dull. U.S. fruit has been sold at the lowest price this sea-son. Canadian fruit has, however, done rather

The Earl of Selbourne, First Lord of the Admiralty. will succeed Lord Milner as British High Commissioner in South Africa.

The British Government will spend \$166,945,000 on warships this year. The programme includes one battleship, four armored cruisers and five ocean-going torpedo-boat destroyers.

A convention of workingmen, remarkable in that at it, for the first time in their lives, the delegates met with freedom of speech and assembly guaranteed them, was held at St. Petersburg, on March 1st. The convention unanimously adopted a resolution, demanding the release of the workmen who have been arrested since January 22nd, and that, at future assemblies, the right of freedom of speech and liberty of the press in regard to all transactions be assured.

The situation in the Caucasus now practically amounts to civil war, the greatest disorder reigning at Baku, Batoum and Tiflis, where riots and assassinations occur daily, the troops being entirely inadequate to meet with such atrocities. In Poland the strikes on the railways have ended, but practically the whole Province has been declared in a state of sugge, and is now governed under a form of martial law

The piercing of the gigantic Simplen funner through the Alps, between Switzerland and Units, marks another triumph in engineering. The work was begun in 1898 by two parties, one Swiss, the other Italian, working from opposite sides of the mountain, and so accurately was the advance gauged that the parties met exactly the throwing down of the last barrier forming a ce tinuous passage, twelve miles long, through with

the merrier.

W. A. Badger, Bellefontaine, Ohio, writes us as follows: I see on page 159, issue of 2nd February, what Mr. Alex. Dunn says about " Plank Barn Frames." He is away off for this country. There are more such new barns built here now than of any other style, are stronger, and better every way.

The Superintendent of Public Instruction in Iowa, after a careful study of the question, has reached the conclusion that pupils in consolidated schools enjoy better privileges and are taught by better teachers than under the old district plan, and that besides these advantages the slight additional cost which transportation of the pupils involves is a small matter.

John Shields, Shelburne, Ont., the owner of what is known as the Shield's meteorite, which fell on his farm on the 13th of August last, sold it to Oliver C Farrington, Ph. D., Curator of Geology in the Field Columbian Museum, Chicago, for the sum of \$500. Mr. Shields is to be furnished with a cast of the meteorite and a small portion of it.

" The plan of keeping the poultry-house warm dur ing the winter is all right up to certain limits, but there is no necessity of keeping it without ventilation. Just as some of the worst colds are caught by human beings from being in rooms too warm, so are some of the worst cases of roup among poultry traced directly to over-warm houses."-[Farm-stock Journal.

A deputation from the Ontario Fruit-growers' Assostation waited on the Hon. Nelson Monteith, Minister Yersulture, recently, with the request that the On-Agriculture Department conduct a series of experiin the Niagara district, in order to ascertain the withod of combating the San Jose scale, and better, particularly for Golden Russets, for which there is a continued good inquiry. The prices range from \$2.90 to \$4.30 for Canadian apples. London, England.

### To Fight Weeds.

Prof. L. H. Bailey gives the following rules for keeping down weeds, and thereby improving crops :

First-Practice rotation. Certain weeds follow certain crops; when the weeds get too strong, change crops.

Second-Change the method of cultivating. Plow deeper or shallower, or use a different harrow or cultivator.

Third-Cultivate frequently with light surface tools. Fourth-Sow clean seed.

Fifth-Don't let weeds run to seed on the manure pile or anywhere on the farm.

Sixth-Hogs and sheep will clean up the weeds on foul fallow land. It is said that a weed will not germinate after a sheep has dropped it.

### Old-timers.

Have read your valuable paper, the "Farmer's Advocate," for ten years, and I think it is the best paper a farmer can take. Grenville, Ont.

W. H. LATOURELL.

- I have taken the "Farmer's Advocate" for about twenty years, and find it all right. WM. FRIZELLE

Have subscribed for your paper eighteen years and would not be without the "Farmer's Advo cate" for double the amount.

W. G. HENDERSON.

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THE FARMER'S ADVOCATE

### Cost of Production.

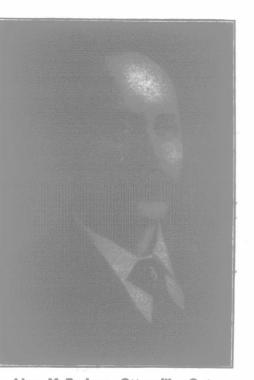
MARCH 9, 1905

#### To the Editor "Farmer's Advocate" A letter in the February 9th issue of the "Farmer's Advocate," with the above caption, must have attracted the attention of many of its readers, as it was apparently issued as a rider to my letter of the same issue. In the first place, the writer cites the opinion of the student of political economy in regard to wealth and values. It is one thing to state an hypothesis, but it is a different thing to conclude its truth. What will my esteemed critic say in regard to the present position of the British manufacturer? Is he not producing vastly more than is wanted for home use? Are he and those dependent on him as prosperous as half a century ago? Has he not had the trade and experience for centuries, and, therefore, should he not be fully coversant with the economics of his business ? But, alas, what has his overproduction done for him? assumption as to values may be regarded as containing a shade of truth, particularly in the latter expression, "to the advantage of the pro-The anxiety of one community to outducer." do their neighbors leads them to cut prices in doing so, to capture the market on some staple article, where the competitor may, by being so climatically and geographically situated, produce such article at a less price than his less fortunate neighbor, who has to battle climatic conditions and face a long transport haul. And the competitors of the latter class are expected to place their article on the market at the same, and in many cases, even a less price than the "God-favored." I can understand why some product of manufacture can be produced much cheaper in one country than in another, because the raw materials of its composition lie side by side, practically, at the place of its construction. But why should farm produce be forced into the competitive markets, on the same plan as is the stock market? Is it not for the express purpose of throttling the farmer and of gambling? The speculator in farm produce is not much better than the stock gambler, and goes about his work with the same subject of shearing the lambs. But why farm produce, brought about in exactly the same way and methods, should be so diverse in price, even in each country's home markets, let alone in the foreign competitive market, is a question that should receive some share of attention. For if we cannot put to best advantage what is at home, how can we go abroad to do it? The writer claimed that coal oil was an article of the favored class. Then, what about the iron trust, salmon-packing amalgamation, the leather and shoe combine, many implement combines, the cotton-growers' "cotton pool," and the present sugar situation? Now, don't be partial; give each your consideration. What has been feasible and workable with these should be equally so with the farmers' produce. And I am not so prone to hug delusions as my friend is to argue against common truths. Would he, if he were in the publishing business, when he knew it cost him \$1.50 per annum to produce papers for the weekly issue to his subscribers, continue to issue it at \$1.00 per annum? Now, why should he not, using his argument that wealth is the extra production of an article produced cheaper? Do we frequently find such generosity, or do we find those who preach the gospel of economy rarely We find their avarice

holds it off the market till its quality has deteriorated.

Again, much of the second and third class butter that would find a fair value in the cooking class is forced to displace much of the A1 article, thus lowering its price, because the oleomargarine competition displaces the second and third class butter in the legitimate markets. 'The holding-in-storage system '' to which many of our speculators resort, in order to increase the margin, has a disastrous effect on the producer in the end, and he is blamed for poor quality. instead of those who have largely to do with it. That an improvement can be made in the selling of our butter and cheese goes without saying. The greatest loss we meet in these commodities is from the system of cutting practiced by most buyers of these articles, and the system in vogue of Montreal inspection and weights. Many unscrupulous men have no compunction in decrying goods, even when faultless, thereby reaping reward for their avidity, to the exasperation of the producer. Why, then, should the farmer be the only person to practice ecomony? Let some of the others do their part, and if a loss must be suffered, let all who are party to it lose. But here does the old saying come true, "The farmer speeds them all.'

Let us turn the searchlight on the bacon industry as a subject. I have stated in my former letter, from experience in the business, that to cheapen the cost of production is an impossibility, even by practical method. I was, however, pleased to see how the letter of so reliable a person as Mr. J. H. Grisdale, in the "Farmer's Advocate " of February 2nd, dealing with the subject in a different way, proves conclusively what bacon costs per one hundred pounds gain, being \$4.38 for actual grain feeding on a ninety-day What did the pig cost up to the start of test.



Alex. McFarlane, Otterville, Ont.

favored class an advantage over the rest of struggling humanity. The producer does not expect impossibilities, he simply desires to be recognized as a unit in the progress of the world, and expects his reward, for is not the laborer worth his hire? We don't want the whole earth, nor to throttle the inhabitants thereof. Much less would satisfy the most ambitious. phase of the question is here apparent. Those versant in the industry will tell you that fully forty per cent. of the trade are listed as culls, selling at the high figure of from two to three cents per pound, and from these are made select barrel meat, cured hams, sausage and pressed ham, selling at from ten to fourteen cents on the local markets. Someone says : why raise these culls? Well, if these were not raised where would the sixty per cent. bacon selects come from? The sires and the sows must be kept or the trade must go. And I think right here there is room for some measure of reform, and consequent compensation to the farmers. Again, the by-products are at present above true feed values, if the beef and bacon producers are to remain in business, and get any margin. They, many of them, such as bran and shorts, are indispensable, but we cannot take them at current values and return a profit

It appears to me that the farmer's position to-day is like that of the horse that ran short of hay in December, and was told by his sympathizing owner, "Now, Charlie, if you can just live till spring you shall have plenty of grass, and nothing to do but eat it "; but spring came, and the horse was not. It was then only that poor Charlie was appreciated, and his true worth was known. Awake, Bro. Farmer, shake off your slumbers, for now is there plenty to do to better our position.

Thanking you for so much of your valuable time and space. J. D. WYLIE. Grenville Co., Ont.

### Hereford Breeders' Association.

A special meeting of the Canadian Hereford Breeders' Association convened at the Rossin House, Toronto, February 16th, 1905, for the purpose of considering the advisability of making their association and records national. R. J. Mackie, president, occupied the chair. He spoke briefly as to the benefits to be derived from having national records, and called upon Mr. F. W. Hodson, Dominion Live-stock Commissioner, who outlined the scheme of nationalizing the records, which the members approved, and on motion of  ${\rm M}.$ Copland, seconded by M. H. O'Neil, it was resolved :

"That the Canadian Hereford Breeders' Association at once proceed to nationalize their association and records; that the office be transferred from Toronto to Ottawa; that J. W. Nimmo be Registrar, and R. J. Mackle, W. H. Hunter and W. H. Hammill be a committee to meet with the Live-stock Commissioner and complete arrangements forthwith."

Mr. O'Neil said there were a number of herds of Herefords in Canada which were not recorded in the Canadian book, and he thought the association should try and make some inducement in order to get the breeders to record in the National Record. This was the general opinion of the meeting, so R. J. Mackie moved, seconded by W. H. Hunter:

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bound as his humble servant. I would not as sume to dictate to a master builder, where he could buy cheaper, or use his materials to better advantage, because I am not versant in his business. Besides, he might think me just a little out of place. The farmer is willing to hear advice, but, like the builder, he knows where the articles fit, and will shape things in his own plan. Who decries as impossible the idea of bettering our position upon the competitive market? To him say nothing is impossible, for he must admit that what were listed as impossibilities, even ten or twenty years ago, we are enjoying the full benefits from as realities to-day-talking great distances, wireless telegraphy, and even flying. There is a grand future in store for the farmer. as well as for the other classes of humanity who are struggling, and who have struggled for reforms that are as essential as their existence. Would our esteemed friend wish to see the Canadian farmer in the relative position of our peasant friends of Russia ? When he so decries our possible future hope or attainment, he certainly must have some of that element infused. The farmer as a down-trodden, despised, buffeted being, I am glad to say, is fast becoming a person of the past. But where is the farmer to expect substance to come from the shadow markets of to-day ? Is it to come by our continued overproduction, or will that not be like adding more coal to the fire, only to cause the greater shadow? Think! Yes, I say think! I would like the writer to indicate the place and person wanting that 25-cent butter, and he can have plenty of that sweet. gilt-edge product of the Canadian farms that would tempt the appetite of an epicure. The reason our markets are in the fifteen-cent class is not that the butter was originally worth no more. but the speculator, who is after the large margin,

#### Secretary-Treasurer Ontario Association of Fairs and Exhibitions.

the test at seventy-five pounds weight? What about the labor, the wear upon the building? Should these sink from view when costs are to be considered ? This same reliable source of information deals at length with the "beef question " on the same page, also proving my assertion that these commodities cannot be continued to be placed on the market, even at present Therefore, how can we be expected to prices. place them there at less, when we are now losing at the present quotations?

Those who urge the cheaper production must see its fallacy conclusively established. The idea of producing the bacon for the live market prices that prevailed all winter, until a few days ago, four cents to four and one-half cents per pound for prime selects, with grain at the market price from forty cents to sixty cents per bushel, and by-products from \$1.05 to \$1.50 per one hundred pounds, besides labor, etc., should be reasons sufficient to banish the hog till such time as those engaged are paid for their work, with a margin for their investment. Ask the packing companies for their quotations. Go to your local grocer and butcher and ask them the price of breakfast bacon, and you may be surprised when you learn it is sixteen to eighteen cents per pound. In the name of all reason, where did that ten to thirteen cents become added to the farmer's prices. Now, be frank ! Don't you think that the people who have had the easy part have got a little too much for their part of the work? The consumer here is made to suffer with the producer, but the farmer is getting the blame that others deserve. And why should any particular community be compelled to bow down in slavery to grant some

" That the Registrar be authorized to issue a circular, stating that all American pedigrees now in Canada, shall be re-registered in the Canadian book at cost price, and that this condition shall prevail until the 81st of December, 1905."-Carried.

W. H. Hammill moved, seconded by W. H. Hunter "That the Canadian Government be and is hereby asked to take steps to regulate the further importation of horses, cattle, sheep and swine.

And it is hereby further resolved, 'That animals for breeding purposes be admitted free of duty when pure-bred, registered in the authorized book of records of the Dominion of Canada, or of the country in which the breed originated, and when owned by a bona-fide resident of the Dominion.''

### Dates Claimed for Public Sales.

March 14th.-Imported Clydesdales; Repository, Toronto.

March 15th.-Jersey cattle and Cotswold sheep; W G. Laidlaw, Wilton Grove, Ont.

March 16th .-- Clydesdale mares and fillies; Nelson Wagg, Claremont, Ont.

March 16th .- Shropshire and Dorset sheep ; II. A Hanmer, Mt. Vernon, Ont.

March 17th .- Shorthorn cattle, Clyde mares, Oxford sheep; Geo. Ferguson, Salem, Ont.

March 21st .- Shorthorns; Goodfellow Bros., Macville, Ont.

March 22nd.-Shorthorns and Clydes; W. G. Howden, Columbus, Ont.

March 22nd.-Ayrshire cattle; Messrs. Ogilvie, and R. Hunter & Sons, at Lachine Rapids, Que.

March 22nd.-Shorthorns; W. G. Howden, Columbus, Ont

March 23rd .- Shorthorns; Geo. H. Johnston, Balsam, Ont

March 29th-Hackneys and harness horses; R. Beith, Bowmanville.

### Western Farmers and Stockmen in Convention.

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During the last of February a number of Western agricultural and live-stock organizations held their annual conventions in Winnipeg. On the 21st were the conventions of the Manitoba Horsebreeders' and the Manitoba Cattle-breeders' Associations. The Manitoba Beekeepers' and Manitoba Veterinary Associations had their turn on the 22nd, the Manitoba Sheep and Swine Breeders on the 23rd, the Manitoba Dairy Association on the 24th. During the week, also, the Winnipeg Exhibition Board met, the Manitoba Poultrymen held a show of birds, the special meeting (reported elsewhere in this issue) of Shorthorn breeders met at the call of E. R. James, Rosser, director representing Shorthorns in the Cattlebreeders' Association, and the city of Winnipeg tendered its annual banquet to the visiting stock The Alberta poultrymen had met and held men. their second annual show February 15th to 17th.

The cattle-breeders' meeting was a busy one. The secretary, G. H. Greig, presented the financial statement, showing receipts of \$483.48 and expenditures of \$401.90. He called attention to the large number of poor thin cattle that had been marketed from the ranges last fall and dur-These cattle have a most deing the winter. pressing effect upon the prices of better cattle without cheapening the cost of meat to the consumer, which conditions emphasize the necessity of establishing the dead-meat and packing business on a better basis. It was pointed out to the convention that the previously existing arrangements, whereby the Territorial Government had transported pure-bred stock from Manitoba to the West at a nominal fee, had been abrogated, and that if the Manitoba cattlemen would capture a larger proportion of the Alberta trade, the Cattle-breeders' Association would have to take some action in the matter, as the Ontario Livestock Associations were receiving large grants to enable them to transport to the West stock which comes into direct competition with that bred in Manitoba. This question, although an important one, was not acted upon by the convention.

A discussion relative to the restriction of the importation of Mexican cattle was then conducted, and a resolution passed which read as follows

As the importation of Mexican cattle has flooded the ranges of the Canadian West with a class of very inferior merit, from packers', consumers' and breeders' points of view, and whereas the Department of Agriculture is spending money with a view to improvement of Canadian cattle, so that our cattle may capture the British market, and whereas the dumping of such inferior stock is a serious hindrance to the cattle-feeding business; therefore, be it resolved, that the Minister of Agriculture be requested to formulate some measure whereby this dumping of inferior animals to the detriment of the Canadian live-stock breeding industry be stopped.

Another resolution was passed calling upon the Dominion Experimental Farm at Brandon to carry on more experiments with live stock, and expressing the opinion that the present plan of seed distribution in three and four pound lots is conducive to the mixing and deteriorating of varieties, and that the expense of distribution and growing of such small samples is out of all proportion to any benefits that might be attained.

On the morning of the 22nd, the convention

He regretted that the expense of fencing year. and the ravages of wolves had so hampered the sheep industry, but with cheaper fencing the raising of sheep would, no doubt, become more popu-The President for 1905 is Dr. S. J. Thomplar. son, St. James.

At the show of the Manitoba Poultry Association the display of birds was large, general-purpose utility breeds being out strong, especially Barred Rocks. At the convention, the advisability of amalgamating with the live-stock associations was considered, Prof. Graham, of Guelph, laying before the meeting the advantages that the poultry associations in the east had derived from such affiliation. The incoming executive was memorialized to do its best to bring about amalgamation. The Poultry and Pet Stock Association of Alberta had a most successful exhibition, which also proved the occasion of an enthusiastic gathering of citizens, fanciers and farmers, who assembled at the night meeting following the second day of the exhibition.

The beekeepers passed a resolution deploring the presence in the markets of much adulterated honey, and asking the Government to look into the matter, with a view to protecting the home market and consumer. The president for 1905 is S. A. Bedford, Supt. Brandon Experimental Farm ; Secretary-Treasurer, Thos. Gilley, Winni-

At the Board meeting of the Exhibition Association, held previous to the annual meeting, the resignation was received of President J. T. Gordon and Manager F. W. Heubach, on account of pressure of private business, the latter retiring after ten years' service. By way of appreciation, he was granted a bonus of \$1,000. The financial statement showed that 1905 was a successful year for the Association, after paying a previous year's debt (bank overdraft, 1903, \$2,413.84, and bills payable, 1903, of \$10,000) of \$12,413.84, and some \$3,000 of accounts from 1903, have a balance of \$3,508.39. The city of Winnipeg's outlay on the buildings for the Dominion amounted to about \$55,000. The attendance during the ten days was estimated at 209,000. It is now proposed to utilize the exhibition grounds as a public park, to be kept up by the city, a most commendable idea.

### Trashy Food and the Farmer's Market.

It is a question if farmers in counting their blessings put as much emphasis as they should on the fact that, to a greater extent than other people, they "know what they are eating." With one's own milk, butter. cheese, meat and fruit there is little chance of being victimized by the sharks who are ready to cram any thing from boiled moccasins up, down the throats of the gullible. The sale of such " preparations " is, however, damaging to the farmer, in that it spoils his market for good honest productions. Farmers who have fruit to sell will be glad to know that, as has been announced by the Minister of Inland Revenue, a vigorous campaign is about to be instituted against several varieties of adulterated foods, among them socalled jams and jellies, which, put up in nicely-labelled country." glasses, have been passing for raspberries, strawberries. ., etc., when, as a matter of fact, there might not be et. a particle of raspberry or strawberry in them, the lack " being made up by glucose, aniline dye, salicylic acid and boiled hayseed, with a little apple pulp and flavoring. The bulk of the adulterated foods of this description has been shown to come from the United

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### Best, Cheapest, and a Stayer.

To the Editor "Farmer's Advocate":

Sir,-I herewith enclose my subscription, \$1.50, for the "Farmer's Advocate," thanking you very much for waiting on me so long. I can say it's the best paper and the most interesting paper for farmers and others that ever came into our house. Who can get it first is the cry when it comes home from the post office. It is the cheapest paper we ever had for the money. We JAMES MARTIN. wish to stay right with it. Peterborough Co., Ont., March 3rd, 1905.

### Danger of Centralization.

A correspondent writes: "I notice in your last issue a reference to the proposal to form an Eastern Ontario Fairs and Exhibitions Association, because the main body at the recent annual gathering decided to make Toronto their permanent meeting place, instead of holding occasional meetings east and west, at such points as Ottawa and London. This is one of the dangers of centralization, which also has a tendency to discourage local initiative and enterprise, and to perpetuate office holding in the hands of a few men."

### Prize-list, Canadian Horse Show, April 26th to 29th.

We have received the prize-list of the eleventh annual Canadian Horse Show, to be held under the joint auspices of the Canadian Horse-breeders' Association and the Toronto Hunt, at The Armouries, Toronto, on Wednesday, April 26th, to Saturday, 29th. Arrangements have been made with the G. T. R., C. P. R., Michigan Central and T. H. & B., that on all exhibits forwarded to the show full tariff rates shall be charged, but that such exhibits, if unsold and reshipped after the close of the exhibition, will be returned free, upon presentation of the requisite certificate, signed by the proper officers of the exhibition. Return passenger tickets will be sold on the above lines at single fare rates. For further particulars address Henry Wade, Parliament Buildings, Toronto. Entries close April

### Postage on British Periodicals.

Senator Drummond is to be commended for calling attention in the Senate to the almost prohibitive postage levied by Great Britain on papers, magazines and other publications intended for Canada, and the apparent ease and facility with which cheap publications, often merely advertising mediums, find their way into Canada from the United States. The policy of the British post office was referred to as unwise and unpatriotic. The following resolution was adopted, with a view to strengthening the hands of the Postmaster-"That the attention of the Government be directed to the local, foreign and Imperial postal charges, with the view of remedying certain inequalities therein, and the Senate affirms the principle that the conveyance of letters, newspapers, books, periodicals, etc., should be at a lower scale of charges within the Empire than at the time ruling with any foreign

### Billy and I.

- They say they are going to shoot you, Old Billy, but don't you fret,
- For the fellow who dares to meddle with you, 'must reckon with me, you bet;
- You're a poor old horse, Old Billy, and you aren't

took up the question of nationalization of the records, and, after discussion, passed a resolution to the effect that the Live-stock Associations of Manitoba are in hearty accord with the proposal to nationalize all the live-stock records of Canada, believing that such will assure equitable treatment to all the provinces, and that such nationalization of records will work out to the betterment of the pure-bred live-stock interests of Canada.

Another resolution was passed, asking the Canadian Government to take steps to regulate the importation of horses, cattle, sheep and swine, and to admit duty-free such animals as were pure-bred and registered in the authorized book of Canada, or of the country in which the breed originated, when owned by a bona-fide resident of the Dominion.

Officers for the ensuing year unclude : President, J. G. Barron, Carberry : 1st Vice-presi-dent, A. Graham, Roburd : 2nd vice president, Hon, W. Clifford, Austro.

The dairymen to see the report, and were report, and were encourseen by the assumed that, although the male of creaners better had fallen off by about fifty per cent, the prospects for next year were bright. The advestibility of taking steps to introduce traveline darries to arouse more interest in dairyins we docussed. Mr F, W, Hodson assured them that the milking sec chine was an assured fact, and would soon found on all the large farms. 1905 include : President, W. B. Gilrov, Austin S-cretary Treasurer, Geo. H. Greb, Winnipeg.

At the Sheep and Swine Breaders' convention the sectory read a satisfactory financial state ment and moted that the best on houses were re-relying double the number of hogs they did

ates; the English ja s, on examination, proving to be invariably pure. One method of lessening the evil But you've been a faithful friend to me, and I'll see suggested is that a special duty be imposed on all such canned "goods" coming from the United States. Something should certainly be done, and that quickly. There should be no room for frauds in Canada.

### Death of Mrs. Henry Arkell.

The many friends of Mr. Henry Arkell, of Farnham Farm, Arkell, Ont., near the City of Guelph, will regret to learn of the death of his estimable wife, which took place on February 23rd. Mrs. Arkell, whose maiden name was Jessie Macfarlane, was a daughter of Capt. D. Macfarlane, of Parry Sound, and was born on July 20th, 1859, in Morriston, Wellington County where the early years of her life were spent, only a few miles from Arkell. On September 27th, 1877, she was married to Mr. Arkell, and two years ago they celebrated their silver wedding at "Farnham Farm." Mrs Arkell entered heartily into all her husband's business affairs, and was very much interested in his specialty as a breeder and importer of Oxford Down sheep, becoming really an expert live-stock judge. Her kindly solicitude for the comfort and enjoyment of her family and friends shone forth unostentatiously, and her life-work ever told for good in the household socially, morally and

Mrs. Arkell had been a member of Chalmers Presbyterian church, Guelph, for twenty-seven years, and stored into the duties of that sphere of life with great -t, being an active and willing worker therein, strivto do all that lay in her power for the advanceat of the cause of Christ She will be greatly missed a wide circle of admiring friends, who were wont to her hearty welcome and cordial hospitality, but is and son, in the home that has been suddened by

- worth much, it is true
- Shoot Old Billy ? I guess not, though you may be old and gray,
- By the self-same stretch of mercy they'll be shooting me some day;
- I haven't much love for the fellows who follow the shooting plan;
- If they had more pity for horses and dogs, they'd have more love for a man.
- They tell us that horses have no souls, and they all
- That shows how little they know, Old Boy, and it proves they don't know you ;
- Well, well, 'tis a mighty question, and quite beyond my ken-
- But the more I know of horses like you, the less I brag about men.
- You've been a good horse, Old Fellow, steady and brave and true:
- have given us faithful service-done all that a horse could do ;
- You've earned your keep; you shall have it; so live as long as you can-
- justice is justice, and right is right, whether it's a horse or a man.

### Appreciated all Round.

I must say that your paper is properly named. as it is certainly a "Farmer's Advocate" in every sense of the word, and the Home Department is a magazine of true worth in a family circle. MORLEY G. BROWN. Leeds, Ont.

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### MARCH 9, 1905

MARKETS.

**Toronto Markets.** 

LIVE STOCK.

Export Cattle-None on the market.

Prices are quoted nominal and un-

changed. Choice are quoted at \$4.40 to

\$4.90; good to medium, \$4.25 to \$4.40;

Butchers' Cattle-Good to choice are

quoted at \$4.15 to \$4.50; fair to good,,

\$3.50 to \$4; mixed, \$2.50 to \$3.75;

common, 2 to 3; and cows, 2.50 to

Stockers and Feeders-Unchanged and

nominal. Feeders are quoted at \$2.50

to \$4.40, and stockers at \$1.50 to \$3.40.

6<sup>‡</sup>c. per pound, and \$2 to \$12 each.

Calves-Quoted unchanged, at 31c. to

Sheep and Lambs-The offerings were

cleared up very early. Export sheep are

quoted higher, at 3.50 to  $5.12\frac{1}{2}$ ;

butchers' firm, at \$3.50 to \$4.50; grain-

fed lambs, at \$6.50 to \$7; barnyards, at

\$5.50 to \$6.50; and springs, at \$4 to \$8

Hogs-Unchanged, at \$5.60 per cwt. for

selects, and \$5.45 for lights and fats.

GRAIN, FLOUR AND FEEDS.

Wheat-Ontario-The market has an

easier tone, with prices unchanged. Red

and white, \$1.05 to \$1.06; spring, 98c.

to \$1; goose, 90c. to 92c. Manitoba-

Winnipeg prices are easier, but no change

is made locally in all-rail quotations.

No. 1 northern, \$1.12; No. 2 northern,

\$1.09; No. 3 northern, \$1.03, delivered.

for bran in bulk, \$17 to \$17.50 for

shorts, east and west; Manitoba, \$19 for

Barley-46c. to 47c. for No. 2, 44c. to

Rye-Dull; 73c. to 74c. for No. 2 f.o.b.,

Corn-Firmer; Canadian scarce, 45c. to

45 tc. for yellow, and 44c. to 44 tc. for

mixed, f.o.b., Chatham freights; Amer-

ican, No. 3 yellow, 534c.; mixed, 524c.,

Oats-No. 2 are quoted at 41c., outside.

Rolled Oats-\$4.15 for cars of lags, and

\$4.40 for barrels, on track here; 25c.

more for broken lots here, and 40c. out-

Peas-67c. to 671c. for No. 2, west and

Buckwheat-Firmer; 55c. to 56c., east

COUNTRY PRODUCE.

Butter-The demand is not so active.

Receipts are about steady, and prices

Dairy, tubs, good to choice .... 19c. to 20c.

do, medium .....17c. to 18c. do, inferior grades .....15c. to 16c.

Dairy, lb. rolls, good to choice.22c. to 24c.

45c. for No. 3 extia, and 42c. for No.

3 malting, outside, Toronto freights.

shorts, \$17 for bran, exports.

Mill Feed-Unchanged; \$14.50 to \$15

good cows, \$3.25 to \$4.

each.

outside.

side.

east.

and west.

are unchanged.

on track, Toronto.

### THE FARMER'S ADVOCATE.

### **Montreal Markets.**

### Butter-Receipts seem to be increasing. At existing prices, consumption is not more than half what it generally is. Choice creamery has been sold for 28c., and some very ordinary stock for 27c. Eggs-Market for fresh eggs has eased off slightly, they being obtainable to-day at 28c. a dozen, as against 30c. to 32c. a week ago. Fresh-laid stock may now be purchased at 28c.; limed and cold-storage are also cheaper at about 20c. a dozen.

Potatoes and Vegetables-Dealers are paying 65c. per bag of 90 lbs. for carloads of best red potatoes, on track, and 67c. for best white. Turnips advanced \$1 per ton this week, and are now selling at \$13, or at 75c. for 50-pound bags. Onions are also very firm, and the tendency is to advance. Red Globe onions are selling at 3c. per pound.

Beans-This market has been most excited of any, probably, prices having jumped fully 30c. per bushel since a week ago. A large dealer stated that he would not accept less than \$1.85 per bushel for prime beans, carloads, on track. Others are, or have been, quoting as low as \$1.70 per bushel. It is claimed that prices will go to \$2 per bushel, and over, and in view of the strength of the market, this seems quite possible.

Grain-Very little change in oats during the past week. Merchants still report a fair demand, both from local and outside consumers, and prices hold firm at 45c. to 451c. for No. 3 oats, store, and 46c. for No. 2. Feed barley,  $48\frac{1}{2}c.$ , track, and peas 67c. to  $67\frac{1}{2}c.$ , high freights. The wheat market has passed through some exciting times. Prices experienced some sharp slumps towards the end of last week, and the beginning of this, the result being that several cents were chopped off previous figures. The market for May wheat, at Winnipeg, went down on the slump to below \$1 per bushel.

Hay-Market weak, in sympathy with English and other export markets. There are no further shipments going on to the Maritime Provinces, it is said, and the outlet being closed, stocks are accumulating. At the same time receipts are increasing, and everyone in the country seems to have hay to sell. Prices are steady, however, at \$9 to \$9.50 for No. 1; \$8 to \$8.50 for No. 2, and \$7 to \$8 for shipping.

Live Stock-According to cables, there was an improvement all around in Britain. London quoted Canadian cattle 11c. up, at 111c. for choice Canadians, and ic. up, at 11%c. for choice U. S. The Liverpool market was about 1c. up, at 10 c. for Canadians, and 10 c. for U.S. Select hogs sold at 6c., mixed bringing \$5.85, and heavy \$5.75, off attle Choice to 4%c.; good, 3%c. to 4%c.; medium, 3c. to 31c.; common, 21c., and inferior, thin animals, at 14c. to 2c. Sheep and lambs were quite firm, sheep selling at  $3\frac{1}{2}c.$  to 4c., under a good demand, and lambs bringing 5c. to 54c. and 54c. Dressed Hogs, Etc.-There are practically no country-dressed hogs to be had. The market for abattoir dressed showed a tendency to decline, in sympathy with live hogs, and prices ranged from \$8.25 to \$8.75 per hundred pounds, for fresh Country dressed would bring killed. about \$7.25 to \$7.75.

### Chicago Markets.

#### Chicago .- Cattle-Good to prime steers, \$5.50 to \$6.30; poor to medium, \$4 to 10 to 12c. per lb.; refrigerator beef, \$5; stockers and feeders, \$2.40 to \$4.45. Sc. to Stc. per lb.; sheep, 12c. to 13c. Hogs-Mixed and butchers', \$4.75 to per lb. \$5.05; good to choice, heavy, \$4.80 to \$5.10; rough, heavy, \$4.75 to \$5: light, \$4.70 to \$4.95; bulk of sales, \$4.80 to \$5.

Sheep and Lambs-Good to choice wethers, \$5.25 to \$6; fair to choice, mixed, \$5.50 to \$5.75; nátive lambs, \$7

to \$7.80.



### British Cattle Market.

343

London.-Live cattle are quoted at

### Detroit Bean Market.

March, \$1.77 bid; May, \$1.86 bid; June, \$1.88 bid; July, \$1.92 bid.

It is generally the woman with a fine carriage who is most willing to walk.

> Capital Authorized, \$2,000,000.00. Head Office, Toronto, Ont. Edward Gurney, President.

**EVERY DESCRIPTION OF BANKING BUSINESS TRANSACTED** 

Special attention given to accounts of Cheese Factories, Drovers and Grain Dealers, and special attention given to accounts of Cheese Factories, Drovers and Grain Dealers, and all out-of-town accounts. Farmers' Notes discounted, Farmers' Sales Notes collected and advances made against their security. Municipal and School Section accounts received on favorable terms.

SAVINGS BANK DEPARTMENT Deposits of Twenty cents and upwards received, and in-terest at 3 per cent. per annum, compounded four times a year, without presentation of passbook. No delay in the withdrawal of any portion or the whole of the deposit.

G. de C. O'GRADY, General Manager.

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rolls ..... do, medium .....18c. to 19c. Cheese-Is quoted unchanged, at 11c. for large and 111c. for twins, in job lots

20c to 21c

here. Eggs-New-laid, 22c. to 23c. Fresh are almost out of the market. Limed are quiet and easier, at 18c.

Potatoes-Are steady, and quoted unchanged at, Ontario, 65c. to 70c., on track; 75c. to 80c., out of store; eastern, 75c. to 80c., on track, and 90c. to 95c., out of store.

Beans-Are quoted unchanged, and the market has a firm tone. Hand-picked, \$1.65 to \$1.70; prime, \$1.60 to \$1.65; and under grades, \$1.25 to \$1.50. Hops-Are quiet, at 32c. to 35c. for

Canada crop. Baled Hay-\$8 for No. 1 timothy, and

\$7 per ton for mixed and clover, on track, here.

Seeds-Red clover, \$6.50 to \$7.65; alsike, common, \$3.50 to \$5.50; timothy, \$1 to \$1.50, all f.o.b., Toronto.

Dressed Hogs-Sharp decline; now quoted at \$7.50 for choice light weights, and \$7.25 for heavies.

### London Hog Prices.

The Canadian Packing Co. advise that prices paid for hogs at their packing-Thursday, March 9th, are: for house, hogs 160 to 200 lbs., \$5.40 per cwt.; for lighter and heavier stock, \$5.15, an advance of 15c. per cwt. in each case over last week's quotations.

### **Buffalo Markets**.

East Buffalo.-Cattle-Fairly active steady; prime steers, \$5.35 to \$5.65; \$4.60 to \$5.15; butchers' shipping. \$4.35 to \$5.85; heifers, \$3.25 to \$4.65; cows, \$2.50 to \$4.25; bulls, \$2.75 to \$4.25; stockers and feeders, \$2.50 to \$4.15.

Veals-Active; 50c. to 75c. higher, \$4.50 to \$8.50.

Hogs-Fairly active; pigs, 5c. higher; others, steady; heavy and mixed, \$5.25 to \$5.30; Yorkers, \$5.15 to \$5.30; pigs, \$5.05 to \$5.15; roughs, \$4.50 to \$4.75; stags, \$3 to \$3.50.

Sheep and Lambs-Western lambs, slow; others, steady native lambs, \$6.50 to \$8.50; Western lambs, \$7.75 to \$8.10; yearlings, \$6.75 to \$7; wethers, \$6 to \$6.25; ewes, \$5.75 to \$6; sheep, mixed, \$2.50 to \$6.

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### Life, Literature and Education.

"The awakening of our best sympathies, the cultivation of our best and purest tastes, strengthening the desire to be useful and good, and directing youthful ambition to unselfish ends—such are the objects of true education."—J. T. Headley.

The Voice of the Habitant.

That the spirit of poesy should be found in Quebec is no marvel. Given a land of rugged mountains and fierce torrents; of furious wintry storms, and sudden summers creeping up soft and green from the southland; of redsashed lumbermen shouting on the river, and fleet-footed coureurs-debois gliding silently through the woods-people that land with a simple, pastoral, religious, yet superstitious race, unversed in the hard facts of science, and the much wisdom that comes from many books, and there one must find poesy. a poesy that, had it never found voice in the measured beat of iambus or trochee, had yet been born in the thought of the habitant, who descries in the winds that sweep down from the hoary Laurentians, the sound of weird shrieks and laughter from the chasse galerie, and who knows that through the moanings of the deep forests come also the mournful howlings of the dread Loup Garou.

Yes, Quebec has had her poets: poets of thought in plenty, poets of word who have voiced that thought in the plaintive songs droned behind the oxen in the fields, or measured off to the dip of paddle or creaking of incidentally, to begin the literary career which has marked him, if not the founder of a school, at least as Dr. Louis Frechette has said, in transferring to him the title conferred upon himself by "le grand poete Americain Longfellow"—the "Pathfinder of a New Land of Song."

Undoubtedly, Drummond had literary genius to begin with. Had he never seen French Canada he would have been a writer. But, also, had he never seen French Canada he would probably have missed the opportunity which made him a " pathfinder." In the literary world, in these days of much-travelled highways, it is a mark of originality even to discover a new by-path. J M. Barrie will ever stand pre-eminent as the first of the "kail-yard" school, Wordsworth of the nature school, and so on. In the same way will Drummond ever stand apart as the first to discover the literary possibilities hidden among the lives of habitants. the " Having lived practically all my life side by side with the French-Canadian people,' he says, " I have grown to admire and love them,"-and perhaps this last was the secret of it all. Loving these people, yet not one of them, he saw that they were unknown,

one and all with the ring of truth in them-poems telling of the simple lives of the habitants; their adventures on the rivers; their work in the fields; their little love affairs, and their rollicking parties, when the fire blazed merrily in the "beeg box-stove," while Bateese or Joe tuned up the fiddle, and gay couples took the floor to dance till dawn. Between the lines, too, might be read much of the inner life of these people their fund of good spirits and sly sense of humor, their little philosophies, their simple religious faith, and their quaint superstitions. Above all, might be gathered an inkling of the contentment that marks the genuine habitant, a contentment that comes of wanting little, enjoying much, and trusting all else to "le bon Dieu " who can make all things right. In these busy days it has become somewhat the fashion to smile at the nonprogressiveness of the habitant; yet, perhaps, in his philosophy he is richer than we. It is at least something to be satisfied with life. Read what he says :

De fader of me, he was habitant farmer, Ma gran'fader too, an' hees fader also, Dey don't mak' no monee, but dat isn't fonny.

- For it's not easy get ev'ryting, you mus' know.
- All de sam' dère is somet'ing dey got ev'ry boddy, Dat's plaintee good healt', wat
- de monee can't geev, So I'm workin' away dere, an' happy for stay dere
- Cn farm by de reever, so long I was leev.
- O dat was de place w'en de spring tam she's comin', W'en snow go away, an' de sky

collected into three well-known volumes, "The Habitant, and Other Poems," "Johnny Courteau, and Other Poems," and "Philo-orum's Canoe and Mademoiselle Vercheres." To know Drummond, is to be enthusiastic over him, and the number of those who read his works increases rapidly. Hence, it is easy to foretell that a most enthusiastic welcome awaits a new volume, "The Voyageur," which is to appear in the early future.

#### Our Habi ant Brother.

Addressed to Dr. W. H. Drummond.

- Bateese and the Habitant Farmer and the Cure of Calumet,
- And the Voyageur on the River ! are you telling us of them yet ?
- Or is it only an echo, that comes to me here apart ?
- Your voice or an echo—forever they are dwelling within my heart;
- And as long as the great Laurentians send their waters to the sea,
- As long as the winds kiss the maple or the birds sing in the tree,
- Will a warmer love awaken toward him, contentment-blest,
- In the bosom of his brother who is toiling in the west.
- We may have come from Britain, he may have come from France,
- And perhaps the fathers of both of us once carried a Norman lance :
- We fought together in Egypt, and down on the Transvaal veldt,
- What matters the stock we came of Saxon, Norman or Celt? So long as we know he is faithful, and
- just as devoted as we, We will grasp his hand and press it here
  - in the land of the free,



oar on the river. But these poets have spoken for the most part in French, French readable in Paris, if all but unrecognizable in the strange patois accent of this curious Canada, where a great French Province lies happily under the flag of Britain, and the foremost statesman in the whole country is a Frenchman, with a British heart.

Quebec has had her poets. She has, however, had but one preeminent interpreter, but for whom French Canada would to-day be, to a great extent, a sealed book to the rest of the Dominion, and he, following out the contradiction of it all, is no French - Canadian, no Frenchman even, but an Irishman of the old sod itself. Little need to speak his name, for who does not know that French Canada has spoken to the world through Dr. W. H. Drummond, author of "The Habitant." and the many delightful poems that have

Dr. Drummond was born at Currawn House, Leitrim County, Ireland, in April, 1854, and spent his earlier school days at Mohill in the same county. While still quite young, however, he came to America and studied for a time in the Ward Studied for a time in the starting at Bishop's College, Lemoxtally at Bishop's College, Lemoxtally the medicine at Montreal, and

#### Wm. Henry Drummond, M. D., F. R. S. C.

misunderstood by their countrymen, and felt that in cosmopolitan Canada this should not be. Hence, with no ambitious schemes, probably, for doing away with the "race strife " ter the most effective reformers are often the least assuming—he began to write of these people, using their dualect, letting them, in fact, speak through him, so fully had he made their thought and their lives his own. "The Papineau Gun," and "The Wreck of the Julie Plante," were two of these earlier poems, and so immediate was their popularity all over Camda, that Dr. Drummond's place as a writer was at once assured.

Following these came other poems,

An' back on de medder is sing de glou-glou.—

W'en small sheep is firs' comin' out on de pasture,

Deir nice leetle tail stickin' up on deir back,

Dey ronne wit' deir moder, an' play wit' each oder

An' jump all de tam jus' de sam' dey was crack.—

An' ole cow also, she's glad winter is over,

So she kick hersejf up, an' start off on de race

Wit' de two-year-ole heifer, dat's purty soon lef' her,

W'y ev'ryt'ing's crazee all over de place '

de place ! \* \* \* \* \* \* \*

We leev very quiet way back on de contree,

Don't put on sam' style lak de big village,

W'en we don't get de monee you t'ink dat is fonny,

An' mak' plaintee sport on de Bottes Sauvages.

But I tole you-dat's true-I don't go on de city .

If you geev de fine house an' beaucoup d'argent (plenty of money)--

I rader be stay me, an' spen' de las' day, me,

On farm by de rapide dat's call Cheval Blanc.

Dr. Drummond's poems have been

And we'll give our neighbor brother a hearty clap on the back,---

We, who were born beneath the flag; for he's stood by the Union Jack.

If somebody heard of a murmur and pictured a separate aim,

Let us fairly face the question, were we not ourselves to blame?

And shouldn't he love the early words that over his cradle were sung?

As little as you or I can do is to honor his mother tongue.

Then let us thank you, Drummond, for making his nature known :

If we learned to honor him for your sake, we will love him for his own.

And knowing that he is with us in peace or in wars we wage,

We'll work or we'll fight together for our noble heritage.

Bateese and the Habitant Farmer and the Cure of Calumet,

And the Voyageur on the River ! are you telling us of them yet ?

It is not the voice of the poet, rendering line upon line,

But the very soul of the human, breathed on by spirit of thine,

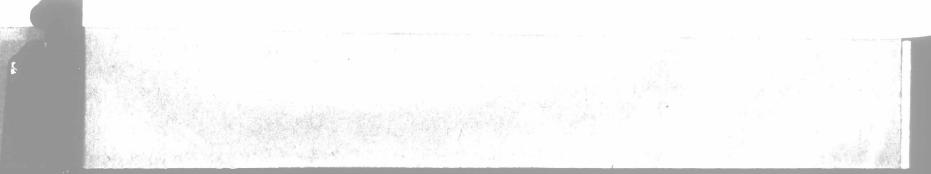
The eyes of a world inviting the homes of a race to view,

Where the hearts are kind and gentle, noble and fond and true,

Bidding the Celt and the Saxon, the hand of the Norman take,

In a warm fraternal greeting for the great Dominion's sake."

FRANK LAWSON.



D 1866

MARCH 9, 1905

National Education Associa-

tion.

useful features of the World's Fair

at St. Louis last year, was the as-

sembling of the great National Educational Association, at which ad-

dresses were given by the leading

educationists from every State in

the Union, and from some outside

points beside. These addresses

have been pertetuated in a hand-

somely bound volume of over 1,000

pages, which has been recently issued

by the Association at Winona, Minn.,

and will be found of much value to

all interested in educational work

into whose hands it may fall. We

desire to express our hearty thanks

to Mr. Irwin Shepard, Secretary of

the Association, for his courtesy in

sending us a volume which is being

much appreciated by all who have

access to it here. 'The papers and

addresses delivered at the St. Louis

gathering cover almost every phase

of educational work now in progress

or under construction upon this

John Morley on War.

I hear constantly, when people are

advocating the necessity of a mili-

tary policy and military training, they say, "Oh, but remember, mili-

tary training gives men courage. It

teaches Englishmen and Scotchmen the virtues of discipline." I thought,

the other night, when I came down

here in a blizzard, the wind raging,

snow falling, all dim and dark and dangerous : "Am I to be told that

the engine-driver on the footplate of

that engine has not got courage and

discipline, and must needs become a

soldier in order to learn what cour-

age and discipline are ?" No man in

the country is more incapable of us-

ing a disparaging word of the soldier

who does his duty, but to tell us

that military discipline is the only

discipline that will make men of us,

Assuming Nationhood.

ernment to assume the responsibility

of maintaining the dock-yards at

Halifax, N. S., and Esquimalt, B. C.,

at an annual cost of \$2,000,000,

has scarcely met with a dissenting

note. Something of the real independence of nationhood thrilled the

whole Dominion when it assumed the

responsibility of coast defences, and nothing since the South African war has done more to impress both Brit-

ain and the colonies with the significance of this young nation

than the assumption of her own de-

The decision of the Federal Gov-

that I entirely deny.-John Morley.

continent.

One of the most interesting and



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### THE FARMER'S ADVOCATE.



### Girl.

This time I am going to take advantage of my privileges as a trained nurse, and put in a plea for the deliverance of growing girls from corsets. The corset-made figure is an ugly one at best, but if grown persons elect to exhibit themselves in that form one cannot well prevent it. They have, at least, ceased growing, but it is a shame to allow a young girl so to deform herself. From fourteen years up, the child's body begins to take on the fashion and functions of the adult, and it is said that the change is not absolutely completed until the twenty-fifth year. In view of this statement, it is surely not pulling the lines too tight to say that absolute freedom should be allowed until the twenty-first year. The natural supports of the body are the muscles of back, chest and abdomen. They are fully competent for this task if not interfered with. If they should fail, the proper treatment is exercise, to develop and strengthen them. The woman whose muscles are strong and whose body is upright has usually a beautiful form, and often a slender waist. The chief attraction of corsets seems to be that they reduce the size of the waist, and this, of course, they can be made to do, at the expense of stomach, liver, lungs, etc. As a matter of fact, those who are built on the plan that permits a small waist retain it much more surely and gracefully by the help of exercise and strong, pliant muscles than by corsets. There are some persons who are not built in such a way as to be entitled to a small waist, but they can, at least, be straight and well proportioned, and even graceful, with the grace of perfectly-functionary muscles. A girl who has worn corsets will say that she is comfortable in them, and needs the support, etc., etc., etc. Of course, this is so. She has relieved the muscles from doing their proper work, and they have become weak-

The Corset and the Growing never recover the power while she wears the corset. The young figure, too, has followed the line of least resistance; in other words, has adapted itself to the corset shape, so that the girl feels no particular inconvenience. She has gradually become accustomed to the weakened muscles and deformed shape. Girls, it is true, are sometimes shapeless and clumsy looking during the growing period, but the remedy, even from an æsthetic point of view, is not corsets, but freedom of movement, exercises and walking in the fresh air, with the chest up and lungs full. I have a great respect for the woman who, having a naturally stumpy figure, has respected it, and kept it straight and strong and in good order; not much for the person who, in connection with large hips and broad shoulders, has cultivated a corsetmade waist. What is more distressing to see than the young girl with the old face, corset-made woman's figure, and dress to match, who is still young enough for short skirts, and often combines them with the other items. If corsets are worn at all, by anyone, they should be made to fit the individual's form AS I'I IS. not as the corset makes or someone else thinks it ought to be. When a girl reaches the age of twenty-one, having paid due respect to her body, so that her muscles are strong and vigorous, the chances are that she will find corsets intolerable. If, however, she elects to wear them, she cannot do herself the same amount of harm that she might have done had she begun seven years earlier. Young girls, in these matters, usually follow the mother's advice, and it seems to me that few of her duties are clearer than to uphold and advise that course which tends to secure to her daughters perfect adult bodies, as well as cultivated minds. There is a want of dignity in the woman who sacrifices her body to appearances and the fashion of the day, and there are few who do not look well if they ened and unable to do it, and will take pains to choose the clothing

that is suitable and looks well on them, rather than something which may be pretty and fashionable as worn by some other woman, but entirely unsuitable to their own individuality. I have yet to see the woman who cannot look well without the aid of corsets.

#### A. G. OWEN

### Notes from Over the Seas. SOMETHING ABOUT JOHN CHINA-MAN

John Chinaman is getting to be pretty well known in Canada, especially at the more extreme ends of the Dominion, where his value as an all-round, though somewhat expensive, domestic is fully recognized. There are those who consider the Chinaman as affording a solution to our own very serious problem of domestic service, but they are mostly those whose purses are pretty well lined, and who can afford to get themselves out of the tangle by a lavish expenditure of dollars. Because, to our Canadian eyes, all Chinamen look so much alike we are apt to consider that one is much the same as another, whereas there is as with difference between them as with the natives of any other nation upon earth. One mistress of a household, where a Chinese servant undertook every department of work from attic to cellar, and did it all well too, said : "Don't talk to me of women servants, if we can only keep 'King Ling,' he is worth all of them put together, and we don't grudge him his wages." Whilst of another Chinese domestic, who looked as if he must be King Ling's brother, smiling as placidly, going about as noiselessly, and apparently as busily, was spoken of invariably by his master as "that rascal of ours, not to be trusted further than you can see him." Now, let me introduce to you John Chinaman, as he appears to one who knows him well in his own country, and whose amusing description, written expressly for the pages of a parochial magazine which comes to me regularly from the Old Country, I venture to copy without waiting for a permission, which would, however, I feel sure, be readily accorded, if asked.

### JOHN CHINAMAN.

"There is no doubt that, once you have come into contact with the 'Heathen Chinee,' and are enabled to observe him closely, your previous opinion of him soon undergoes a change. Seen, as he is by most Europeans, in close connection with Western civilization under the restraining influences of good laws.

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Canada. more than any nation, regrets the barbarous custom of national armaments, but since they are, as yet, a necessary evil, she cheerfully shares the burden of their maintenance with the much-burdened taxpayer of the Old Land.

### The Gardener Bird.

The highest development of the decorative instinct in animals is found in the gardener bird (amblyornis). This plain-looking native of New Guinea builds its nest on the ground, spreads moss before it, and over this green carpet scatters bright berries, flowers and insects. As the flowers wither they are replaced by fresh ones. The whole establishment serves only as a sort of pleasure resort.

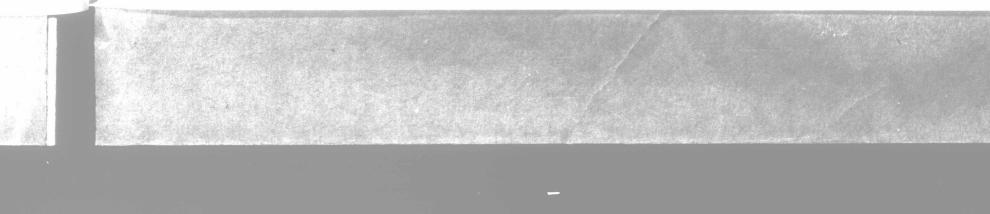
### The Pride of the Family.

This is a solemn conclave over the set of a dress, the becomingness of a hat, and the shade of a ribbon; for the Pride of the Family " is to be a bridesmaid, and she is expected to do credit to her acknowledged position. The moment is evidently of grave importance, one not to be treated with levity. The mother has turned out her stores; the bandbox has yielded up its treasures, and all alike await anxiously the momentous decision, which hangs upon "reflections " of the tell-tale hand-glass. H. A. B.



(From painting by Thomas Hovenden.)

The Pride of the Family.



### **34**6

THE FARMER'S ADVOCATE.

he is a "good sort," hard working, civil, jolly, and, in most cases, honest.

"His capacity and willingness for hard work would make a member of a Trades Union at home shudder. His pay is There small, but so are his expenses. are many cases on record where he has been known to exist on a dollar a month. The visit of the Fleet means a harvest to him, as he will hover about the ships in his sampan (small boat) and pick up all the refuse that is thrown overboard, such as bread, vegetables, etc. The fact of its having been soaked in salt water does not concern him : it all goes into his curry, along with some bad fish, to add a flavor.

" The English language in the mouth of a Chinaman is something to admire. It is called 'Pidgin English,' 'pidgin ' being the nearest approach they can make to the word business. A peculiarity of a Chinaman is that he can't pronounce his Thus, 'All right' is 'all light, R's. 'proper' is 'ploper,' and so on. Chinese writing is too horrible for words. They have no alphabet, but a separate figure for each word. As the writing of each province varies, the study of Chinese caligraphy is one to be avoided. would give you a sample, but regard for your feelings compels me to forego this pleasure.

"John is inordinately fond of his pigtail. He would rather be deprived of anything but that, and to treat it irreverently is a great insult. It is a useful appendage, as it can be used in cold weather as a boa round the neck, and in windy weather for tying on his hat. When he gets bald, he wants to die; all the joy of life is gone from him. This pride in his pigtail is strange, when it is considered that the wearing of it was originally imposed upon the Chinese by the Tartars as a sign of servitude.

"The Chinaman holds life very cheap. The market price for a child's life used to be about a dollar, and that of an adult about ten dollars. The price has now gone up, one of the results of the advent of the European and American traveller. A Chinaman was accidentally knocked down a well here the other day by an Englishman. The Englishman was not up for manslaughter, but the matter was settled by the payment of £20 to his widow. She will retire for life on that."

I remember once to have read that "in China, if a woman murders her husband, she is chopped up into little pieces, and is thrown out without proper burial; but if a husband murders his wife, he is only imprisoned for three months." After which quotation what more need be said about John Chinaman, except that we are thankful he is no countryman of ours. His standard of right and wrong differs as wide as the poles from our own. We will not deny him the possession of some virtues, and we must acknowledge that he has not been without his uses since he landed upon our shores, our extremity having been but too often his opportunity, but it will be largely our own fault if, as was the case with the rabbits in Australia and with the sparrows in Canada, in the course of time the imported species do not overrun the land. H. A. B.



### The Sermon in the Hospital.

(Continued from page 306.)

"Poison not thy wine With bitter herbs if He has made it sweet;

Nor rob God's treasuries because the key Is easy to be turned by mortal hands. The gifts of birth, death, genius, suffering,

Are all for His hand only to bestow. Receive thy portion, and be satisfied. Who crowns himself a king is not the

more Royal; nor he who mars himself with stripes

The more partaker of the Cross of

Christ. But if Himself He come to thee, and

stand Reside thee, gazing down on thee with eyes

That smile, and suffer; that will smite thy heart,

With their own pity, to a passionate peace;

And reach to thee Himself the Holy Cup,

(With all its wreathen stems of passion-flowers

And quivering sparkles of the ruby stars),

Pallid and royal, saying 'Drink with Me';

Wilt thou refuse ? Nay, not for Paradise !

The pale brow will compel thee, the pure hands

Will minister unto thee; thou shalt take Of that communion through the solemn depths

Of the dark waters of thine agony,

With heart that praises Him, that yearns to Him

The closer through that hour. Hold fast His hand

Though the nails pierce thine too ! take only care

Lest one drop of the sacramental wine Be spilled, of that which ever shall unite

Thee, soul and body to thy living Lord ! Therefore gird up thyself, and come, to stand

Unflinching under the unfaltering hand, That waits to prove thee to the uttermost.

It were not hard to suffer by His hand, If thou couldst see His face: but in the dark !

That is the one last trial: be it so. Christ was forsaken, so must thou be too:

an inlet, but no outlet. It is all for self. It takes in all it can, but gives nothing out. The Christian who does nothing for Christ, never goes forth to sow by all waters the precious seed that he has so freely received, never finds a thirsty soul to bring to the living water, will shrivel, and wither, and waste as a fruitless branch. Would that every Christian would at least endeavor to win a soul. It is our calling. It is our profession. It is our duty.

dreary, and funereal. And why? It has

The worker for souls must always be natural, open and true. His words and character must be in harmony, for if the one belies the other his work is vain. He who goes forth to influence his fellow man for Christ must be sure, first of all, that he is one who acts as he believes, speaks as he thinks, and appears to man as he appears to God; and then must carefully beware lest his manner and words be more unctuous and gracious than the reality within. All pedantry, affectation, unnatural and goody-goody phrases are to be avoided as poison. Every overture that is made and every word that is said must be made and said in the frank and hearty manner of one who is, before man and before God, without guile, or deceit, or sham, or hypocrisy, or any such thing. I shall never forget the way in which a friend of mine, a very fine young fellow too, when asked what he thought of a certain Christian worker, replied : "Oh, he is too oily." What he meant was that his manner was too smooth, or, as one remarked of a certain politician, " He's too sweet to be wholesome." I might mention other very necessary characteristics if space permitted, such as wisdom, love, faith, patience, sympathy, etc., which the worker for Christ should earnestly covet, and constantly endeavor to attain by prayer and practice; but there is one that in some ways perhaps surpasses, if it does not include them all; and that is the one thing often lacking, but sorely needed " the Divine gift of Common-sense.

If Christians only realized more how much they could do by a simple word, or how many opportunities are given to them by God if they would only take them, they would not miss so often that wonderful and indescribable joy that comes to the man who speaks a word for the Master to another soul. If you have a word to say, say it. If you are ever moved to open your lips, open them, for FOUNDED 1866

### FARM MANAGERS

On April 15th the Ontario Agricultural College at Guelph will turn out a number of young men specially qualified to act as foremen or managers of large farms. These men have all had practical farm experience to start with, and in addition they have had two or more years at the Agricultural College, learning the most modern methods of farm practice. They are all good workers and capable of handling men and teams. They will take engagements for the spring and summer months, or from one to five years. Salary expected, \$40 a month and upwards, ac, ording to work and responsibility. 0 G. C. CREELMAN, - President.



**PIMPLES** Blackheads, etc., completely eradicated and a clear complexion assured when ACNE is used. Don't go about with a blotched complexion when you can be cured. Consultation invited at office or by mail.

SUPERFLUOUS HAIR

Moles, etc., eradicated forever by our method of Electrolysis. Satisfaction assured. Send 10c. for books and sample cream. o

Graham Dermatological Institute, Dept. F. 502 Church Street, Toronto.

Established 1892.

### WOMAN'S SYMPATHY



Are you discouraged? Is your doctor's bills a heavy financial load? Is your pain a heavy physical burden? I know what these mean to delicate women - I have been learned how to cure

women - I have been discouraged, too; but learned how to cure myself. I want to relieve your burdens. Why not end the pain and stop the doctor's bill. I can do this for you, and will, if you will assist

All you need to do is to write for a free box of the remedy, which has been placed in my hands to be given away. Perhaps this one box will cure you. It has done so for others. If so, I shall be happy, and you will be cured for 2c. (the cost of a postage stamp). Your letters held confidentially. Write to day for my free treatment. MRS. F. B. CURRAH, Windsor, Ont o



cal dealers sell it at \$8.50. Ask your dealer for it. If he cannot show you the machine write us for booklet.

### Humorous.

The Beginning.—Pat was a bashful lover and Biddy was coy—but not too coy. "Biddy." Pat began, timidly, "did ye lyver think av marryin'?" "Sure, now, th' subject has nivver entered me thoughts," demurely replied Biddy. "It's sorry Oi am," said Pat, turning away. "Wan minute, Pat!" called Biddy, softly. "Ye've set me a-thinkin'."

The Scotch Witness.—A small Scotch boy was to give evidence against his father. The magistrate said to him :

"Come, now, my man, speak the truth, and let us hear all you know of this affair."

 $^{\prime\prime}$  Weel, sir, dae you ken the coal wharf ?  $^{\prime\prime}$ 

" Yes."

"Weel, when you turn the corner you gang up the High street?"

Yes, my boy, you're very clever." The input set party on till you come to a

Land 2 a bank ou cut 2 on come to s

Yes, yes; ( ). ( yell,"

"Weel, you can give the first option of you'll not pump me first And the boy departed.

How couldst thou suffer, but in seeming else?

Thou wilt not see the face nor feel the hand.

Only the cruel crushing of the feet,

When through the bitter night the Lord comes down

To tread the winepress. Not by sight, but faith,

Endure, endure—be faithful to the end ! -Harriet Eleanor Hamilton King.

### Winning Souls for Christ.

Selections from "St. Andrew's Work," by Rev. D. Hague, M. A.

Oh, that every Christian might be led to see that he should earnestly try and make a personal effort to save others. Unless he waters others he will not be watered, and the candle hid under the bushel of cowardice or inactivity will slowly but surely be extinguished. The soul that ceases to confess Christ will cease to possess Him; the Christian that does not give out will soon not take in. One has illustrated this by a geographic comparison. There is the sea of Galilee. with its sparkling waters fresh and pure and sweet. Why is it so sweet and fresh and pure ? Because it is always giving out, as well as taking in ; it has an outlet as well as an inlet. But look at the Dead Sea! It is lifeless, and

while we stand hesitating the angel of opportunity goes past our doors, never to return again. The late Captain Hope, a brave and true servant of Jesus Christ, told his doctor a few days before his death, that when he was a midshipman, an old officer said to him one day: "I never go to bed without prayer, do you?" It was a simple question and yet was the means of controlling a great and noble life. "It is between meventy and eighty years ago, but from that day to this I have never done so either." Then he added: "See the influence of a good word."

"In the morning sow thy seed, and in the evening withhold not thine hand: for how knowest thou which shall prosper, either this or that, or whether they shall be both alike good."

### Abiding Peace.

Long years of peace;

When far from me seemed gloom and death,

When sorrow seemed an old man's dream,

May I not once more feel your breath ?

Long years of peace ;

I see far in front of me

A heaven made up of years like yours, A whole, a bright eternity.

Long years of peace;

I think of you as yet to come. And wonder when Time's last New Year Shall gladly bid me welcome Home. —Horatius Bonar's Last Hymn.



Shirt waist Suits, \$4.50 atailored waist supplied instead of a coat from any of the cloths or from any shade Lustre, waist allored in latest spring style. Skirts alone from any of the goods described above \$2.50. May be had box pleated, tucked or trhuned with straps of the goods.

Walsts. Spring styles, any color China Silk \$2.25, best affetta \$2.05, lustre \$1,50, velvet \$1.95, white lawn \$1.00. Add 15 gents for postage.

**Jackets**, Spring styles. Tight back, half fight front, ape trimmed, any color wool frieze hip length \$3.95, knee ugth \$4.95. Floor length, \$6.00.

Raincoats—any shade (Cravenette) early syring styles, oor length, cape and belt, trimmed, \$5.00 for \$12 kind,

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### ED 1866

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### ATHY

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a free box aced in my this one for others. be cured Your letlay for my CURRAH



ne 6 Jey

tury ng cashalf so a tubful aned in a more Lo your you the LIMITED ADA

For I b'lieve they're all of 'm angels, As sure as my name is Pat.

### THE FARMER'S ADVOCATE.



### Pat's Angel.

The morning was cold and cloudy, A regular Chicago day,

MARCH 9, 1905

I had just got my batch o' "Herald's," And was hurrying right away. Newsboys can't do no pokin', Or there'd be the mischief to pay

There had been a sleet a-fallin'. And it made things awful slick, And I saw a man come down, sir, Jus' come down double quick-Then pick himself up a limpin', I laughed till I's nearly sick.

But somehow while I's laughin', My feet went from under me, And I come down jus' ker-whallop, And the stars that I did see ! I thought of a song I'd heard sometime 'Bout "layin' me down to dee.'

I thought I's dead for a minute, So I let myself jus' lay, And I wondered kind o' stupid, If I'd get to heaven that day-And then, thinks I, "'I've got there," For I heard an angel say

" Poor fellow, he's had a tumble,

Just help me lift his head.' "And your scarf will stop the bleeding," Another angel said.

And I thought, "If this is heaven, It's jolly to be dead."

Somehow I didn't know nothin', Till I opened my eyes up wide, In what I guess was a drugstore, 'Cause there's bottles on the side, And the loveliest lady a-standin', And lookin' as if she'd cried.

At first I's so awful happy I couldn't say a thing : Then I said, "If you're an angel, Won't you let me hear you sing ?' And she answered, "I'm not an angel, I'm the Daughter of a King.'

She said I could allus tell 'em By the silver cross they wear. And she explained to me her meanin', And I thanked her for her care. I tell you I'll not forget her,

That lady good and fair.

And now when I meet a lady, Who wears a cross like that, I bow as polite as I can, sir. And take off my old felt hat,

had waited for the next train, which happened to be theirs. The Indians broke the windows with their bows and arrows. One Indian tried to stop the train, but was killed. They were soon out of their reach, and were speeding on again as if nothing had happened, but for the poor fellow's eye, which began to swell. In about a week they reached the station, from which they went by wagon.

### CHAPTER II. Jack's Scare.

When they had started by wagon next day it was ten o'clock. All that morning they travelled through bluffs, over hills, and through sloughs, and at noon camped near a cluster of trees. After we had dinner, Jack went to find some water. He was just dipping it up from a spring when he heard a low growl; he looked up, and there was a black bear about ten feet away, coming towards him. He yelled, but the bear had him and was hugging him unmercifully. Mr. Green heard him yell, and ran around the trees with his rifle. When he saw the bear he got ready to shoot it in the side, so as the bullet would go right through the bear, as he was in close range. Just as he shot the bear jumped, and the bullet grazed Jack's hands. The bear let go of Jack and went for Mr. Green, but was soon laid out. When Mr. Green got to Jack's side he lay in a senseless heap. Mr. Green dashed water in his fare, and when he recovered his Senses he went with his father and cut the bear meat up. They then started again and went about three miles and got stuck in a slough. They were calling at the horses, and did not notice a party of cautious Indians approaching. They yelled at them, and said in broken English, "Surrender or you die." The Indians then tied them on the ponies, and then they took the horses and wagon out of the slough, and took thems to camp. They found that the camp belonged to Big Wolf. They were kept in captivity for a month or more, when they heard a rebellion had broken out. They hoped the troops would visit the camp, as Mr. Green declared he would join them. In about three months more they saw objects coming over the hill in the distance, which proved to be the troops. After hard fighting for two days the camp was taken and Mr. Green joined the troops. It was not without loss that the camp was taken, for three officers and thirtythree soldiers were killed, and three wounded. Shortly after Mr. Green Was promoted in the regiment, and on returning to Summerville fell heir to the property of his brother, and was as well off as ever

### **PLACE OF DEPOSIT**

For the funds of individuals, corporations, institutions, firms, societies, clubs and associations of every kind; as well as for the moneys of executors, administrators and trustees. INTEREST ALLOWED AT 31 PER CENT.

**PAID-UP CAPITAL SIX MILLION DOLLARS** 

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# **A Farmer's Request**

"You must wake and call me early,

Call me early, Katie, dear,

For the House and Barn need painting.

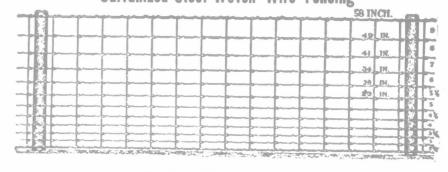
And the Summer Sun is near !"

THE MOST RELIABLE PAINTS-MADE IN A SYSTEMATIC MANNER BY MODERN MACHINERY AND THE FINEST OF STOCK-ARE MANUFACTURED (note name carefully) BY

### The Canada Paint Company LIMITED.

### WE LEAD THEM ALL IN QUALITY, IN CHEAP-NESS, AND IN QUANTITY SOLD

### Galvanized Steel Woven Wire Fencing



347

### Suits

ig wear. It the manu the factory undreds o s the lates is the latest t tas a tight t tight fit stline. It is to be the skirt ched in silk, bound with supply skirte th tabs of the 'knee as preskirts with a bis suit is elations Skirt suit may be y satisfactory 30 to 44 bust.

uits. \$4.50 plied instead of the cloths .ustre, waist n any of the re \$2.50. May tucked Or of the goods. ilk \$2.25, best rn \$1.00. Add

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## ocate

### Out West Among the Indians. CHAPTER I. The Telegram.

It was a pleasant June day in Summerville, and the streets were crowded with horses, carriages and people, but among the crowd was a messenger boy who was hurrying to the house of Mr. and Mrs. Green. When the messenger got to the house, he ran up the steps and rang the bell and delivered his message. As Mrs. Green took the message, or telegram, and read it, she was surprised, for it read as follows : " Come to Mildmay at once." When Mr. Green came home he started as soon as possible, and when he reached Mildmay he was greeted by a stout man, who Mr. Green knew as a Government officer by his badge. The man said, "There is very bad news for you, as you will lose your home and property, as you are not the rightful owner of it, and the only chance for you is to go out west to some settlement and try to earn a living." Mr. Green was speechless. After he got over the shock and found it was true, he started for home, and in two weeks Jack, their son, and they also, were on the train starting out West, with what little they had. When they had been on the journey for a week, they had a strange encounter with some Indians, in which a train ahead of them, and the passengers had provoked the Indians, and they as he passed on.

GORDON CASWELL (age 12). Saskatoon.

### Humorous.

Epitaph on John Adams, of Southwell, a carrier, who died of drunkenness :

- John Adams lies here, of the parish of Southwell,
- carrier, who carried his can to his mouth well.
- He carried so much, and he carried so fast.
- He could carry no more, so was carried at last,
- For the liquor he drank, being too much for one.
- He could not carry off, so he's now carrion.

Little Stanley had spent his first day at school. "What did you learn ?" was the mother's first question. " Didn't learn anything." "Well, what did you do ?'' "Didn't do anything. But there was a woman there who wanted to know how to spell 'cat,' so I told her.''

"Ha! ha "" chortled a loud-voiced man, slapping Grimshaw on the back, "I'll bet one fellow lost his eye. There had been ten shillings you don't remember me !' "You win," returned Grimshaw, coldly,

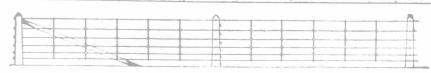
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We call your special attention to our extra Heavy Fence, all Horizontal Wires No. 9 gauge.

If your dealer does not handle our Fences, write to us.

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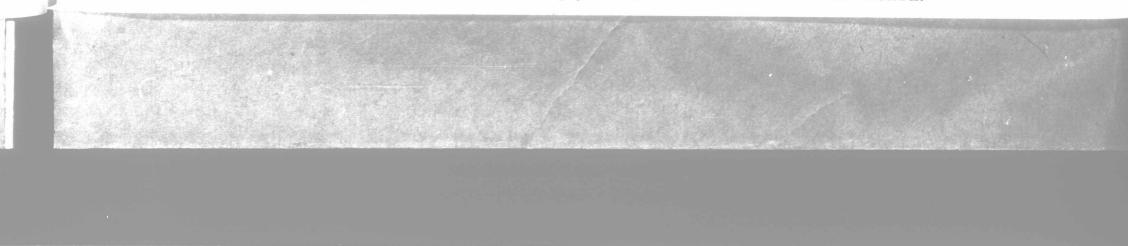


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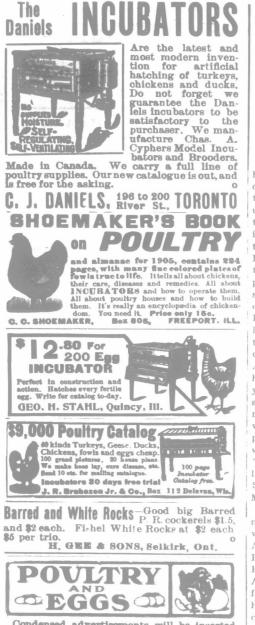
Is the strongest and best farm fence on the market. It is made throughout of No. 9 galvanized steel wire, either plain or coiled, but heavier uprights may be used if desired. Any intelligent person can construct the fence by following directions as given in our free catalogue. Agents wanted.

### GATES AND FENCE WIRE FOR SALE.

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### 348



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ARGE Snow-White Wyandottes. Eggs \$2.00 per Infiteen, from my prizewinners. (See Mr. Langelier's article in Faamer's Advocate, Feb. 23, page 264. R. W. Kemp, Tambling Corners, Lon-

BARRED ROCKS- Cockerels for sale. Eggs from prize stock, \$1 setting. Emily Spilebury, Colbor a Out

### THE FARMER'S ADVOCATE.



#### Our Competition.

Once again I must say how much we have been gratified at the result of our campetition on "Incidents Showing Intelligence in Animals and Birds." A's usual, the only trouble was in awarding the prizes, for so many and so interesting were the letters received that the task of judging has been no sinecure. I am sorry to say that we were obliged to throw out a few essays from the prize list on account of their length, some of our competitors having written over 300 words instead of "about 200." In other cases, again, the incidents related, although very interesting, seemed to show training rather than intelligence on the part of the animals referred to. After these were put aside, however, we had still to cross our Rubicon, for there yet remained several essays which met all our requirements. From these, after much deliberation, we picked out five which seemed best-three for the regular prizes and two for extra awards; the winners being Violet Kennedy, Ottawa; 'Bo-peep,'' Allisonville, Ont.; ''Starlight," Burnt River, Ont.; M. E. Smith, St. George, Ont., and F. G. Wilkin, Maple Grove, Ont.

The honor list, exclusive of prizewin ners : Sobersides, Colin, Deborah, Periwinkle Wrinkles, Mrs. E. C., M. A. C., A Day Dreamer, An Oxfordite, A. A. Park, C. W. B., Admirer of Birds, Florence Clark, Allh, Gertrude Minor, Arch. Hurris, Viola Ewens. . . A few of the "honor" essays have been held over, and will be published, if room can be found for them, at some future date. We are glad to see that so many have taken an interest in this subject, and hope that each competitor will continue to use his or her influence to the utmost in inducing children and others to be kind to our poor dumb friends-so true, so faithful, even when treated with but little consideration. People are inclined to think that the days of slavery are over, yet one cannot but feel sometimes, when watching the heartlessness with which the animals about us are often treated, that there still exists a slavery more dreadful than that which wrested groans from the southern Negro in the worst of his days. As a rule, animals do not groan and moan. Perhaps if they did, they would receive more commiseration in their sufferings. There is a little paper published in the

United States called "Our Dumb Animals," which is doing a great work for

its compliment of nerves, and can suffer just as keenly from physical, and perhaps, sometimes, from mental pain as the daintiest lady in the land. It is no myth that dogs, again and again, have starved to death on 'the graves of their masters. The subject of intelligence in animals has, moreover, been made a matter of study by many of the most noted naturalists, who, almost invariably, have come to the conclusion that the majority of animals do think. Lord Avesbury, for instance, says he holds it inconceivable that anyone who loves animals, and has given any attention to them, should come to any other conclusion about them.

But I must stop. Sometimes it seems hard to realize that there are dozens of letters from correspondents awaiting their turn in the Ingle Nook, and that Dame Durden mustn't wax too prolix. It is so easy, for words run away with one on a pet subject. However, we hope the little incidents told by our correspondents may do something toward calling popular attention to this subject, and that thus our little effort towards awakening interest in and sympathy with our faithful, interesting, affectionate, if dumb friends, may not be lost. DAME DURDEN.

'Farmer's Advocate'' office, London, Ont.

#### A RIVAL TO "HANS."

A dairyman in one of our Canadian cities was looking for a horse suitable for use on his delivery waggon. His fancy was caught by "Fly," a skittish young creature, with a reputation not untarnished by runaways. This seemed a doubtful choice, but her subsequent conduct proved it to have been a vise

In a few months she had learned just where she should stop, and could be trusted to go for blocks without seeing her driver, always turning up at the proper place to meet him. In this way she not only lightened his work, but greatly saved her own strength. She could distinguish between the morning and evening round, and she certainly knew the days of the week, as the following incident will prove : There was one customer who required milk in the morning, but not in the evening, every day except Saturday, when the order was reversed. On that day she did not take any in the morning, but waited until evening in order, to have a fresher supply for Sunday. Every morning during werk Fly stopped at this house in

#### FOUNDED 1866

### A TRUE FRIEND.

This little incident is true, and happened here at our home. My husband went to get out the horses one day after noon hour. He loosened one, started it out, and was leading the other. The first one stopped. He told her to go on, but she didn't, so he hit her with the end of a strap. Still she wouldn't move. On looking for the reason, he found our little girl (then just walking) sitting right where the horse would have stepped, as it was only a single door, and so impossible for the horse to get past without going over her. I do not expect this will take a prize, but I thought it might help to prove the thoughtfulness of horses STARLIGHT.

AN INTELLIGENT DCG.

This little anecdote I am about to relate is an evidence of our dog's wisdom and affection. One morning last May, while we were taking the morning meal, Collie came running to the house and whined and scratched at the door. He was not in the habit of doing this, so I opened the door and asked him in he never comes in unless we invite him), but he refused to enter. He ran back to the drive-shed door and barked. Father went out, and we watched from the window. As father approached the drive-shed he heard a noise somewhat like pounding, so he opened the door. The noise ceased, but when he went in, he found one of the horses severely cut. The other one had broken its halter, and was kicking its mate.

Collie had no way of getting in, or probably he would have forced them to keep their stalls. However, he was given a larger breakfast than usual. MARY E. SMITH.

AN EVIDENCE OF INTELLIGENCE.

In the month of May last summer, as I was strolling along one day, I was suddenly startled by the whinney of a horse in the wood, which I had just left. While waiting to hear it again, the horse came over to my side of the wood and on seeing me came running toward me, whinneying very loudly. She then ran back into the thicket, but was only a short time in returning her visit again, still whinneying, and appearing to be in much distress. This, of course, caused me to investigate the matter, and on entering the thicket only a few rods, greatly to my surprise, I was soon busily engaged in taking her poor little unfortunate colt, nearly dead from starvation, out of a deep hole. The incident plainly convinced me that its mother was possessed of intelligence enough to know that I could surely help her in this great time of trouble. F. G. WILKIN.

ANSWER TO MRS. JORDAN. Dear Mrs. Jordan,-Dame Durden has forwarded me your request for the way to make quick bread. I am glad to be able to send the recipe, and hope you will have good success with it.

Quick Bread.-Peel and boil twelve sized potator

HITE LEGHORNS and White Wyandotte Ontario's leading strains. Choice birds for Write for making list. Eggs \$2 per fifteen. Ernest Charlton, Ilderton, Ont,

WHITE ROCK, White Wyandotte cockerels. Tae utility breeds, Prizewinning strains. Awde, Cheapside, Ont. D

FOR your Orpington winners and breeders go to Willow Brook Farm, who have always beaten the breed rs calling themselves the origitators. Over sixty (60) prizes and sixteen (16) specia's at Madison Square Garden, New York, in the past three years. Tae largest and best stock in this country to select the stock in this country to select from. Send two-cent stamp for 40-page illustrated catalogue, testimonial book, and mating list describ-ing thirty-two breeding yards and pri-es of egge. Willow Brook Farm, Box 74, Berlin, Conn.

WHITE WYANDOTTES, great winter layers. Strongly fertilized eggs, \$1.50 per 15. Incu-ator lots special. Chas. A. Goulding, Vinemount,

BROWNSVILLE Poultry Yard supplies Buff and Barred Rock ages at former Barred Rock eggs at farmers' prices. Best pen aded by sons of 1st Ontario winner. F. Gill, Brownsville, prop.

WHITE WYANDOTTE eggs. Pen headed by grand Duston cockerel. W. D. Monkman s. Pen headed by ndhead, Ont.

N ITH Grove strain Buff Orpingtons; Eggs \$1 per 15. E. Brown, Haysville, Ont.

BUFF ROCKS for sale. Cockerels, \$2: trics \$5, from good winter-laying strain. Chas Nixon, St. George, Ont.

**3** a DaySure of #16 nevery day swork absolutely one. Write at once IMPERIAL SILVERWARE CO., Por 706, Windsor, Ont.

### Y WOMAN OULD LIKE EVER

mles of our \$1.50 to \$12.00 St los're; also Raincoats Write me to day. Man Manager Southcott Suit o, Dept. 20, London, Can

Each issue contains little incidents telling of the kind and intelligent things which animals have done. Each issue also tells something of the work the Humane Society is doing in the cities-of how a man here has been fined for driving a horse with sore shoulders, or one whose working days should have long since past; of how another there has been compelled to hand over his good money for having brutally beaten a dog, and do on. We remember reading in one issue of a fine of \$15 being exacted from a creature who had thrown a poor cat from a three-storey window with such force that some of its bones were broken. How glad one felt that a Humane Society policeman happened to be We hear little of the doings of the Huthe Society in the country, yet some rough, (3 viting collars, less of kicks and about heuses-for, then, human nature might he better awakened, perhaps, to the rights of the animal world. Cruelty so far as it does, it must surely be an outcome of thoughtlessness, a sort of suffering or feeling as and human beings, sorry he seen And yet every sound is supplied with the piggie.

the morning, trotting past at night, but when Saturday came she invariably omitted to call in the morning, although she did not forget to stop on the second trip. How she knew which day was Saturday will always remain a mystery, as no one could think of any difference in her treatment on that day.

If Dame Durden had not limited us to one incident, there are very many equally curious stories about this intelligent VIOLET KENNEDY.

#### BUFFER'S PRIZE.

Buffer was a very large yellow dog. which, during his eight years of life with us, showed in many ways that he was a very intelligent fellow.

father saw Buffer coming across the fields from the opposite side of our village, and something in the dog's movements attracted his attention. The dog made slow progress, kept his head Beat well with spoon, cover up tightly; near the ground, and took an irregular course. As he came nearer, there seemed to be a little animal in front of him. and so it proved to be, for right home Buffer brought a little white pig. a few weeks old. When the pig tried to run to the right. Buffer put out his right paw and turned it about, or if on the lift side, out went the other front paw: so right and left all across the field Buffer guided the pig. Father put it in hear of the owner. Every little while, Buffer went to the barrel and looked in feeling that atimals are not capable of to see if his treasure was safe, and very sorry he seemed when the owner came for

to have one quart when potatoes are done. Put three large tablespoonfuls flour, one tablespoonful sugar, one tablespoonful salt in a crock (about two-gal. size). Mix well together. Into this pour the boiling water from the potatoes, stirring briskly. Then add one quart boiling water, and one quart cold water. When cool enough, add two yeast cakes, which have been Royal soaked in one cup tepid water. Stir well; cover tightly with plate (not tin). Set crock in a warm place until the yeast is light. It will be ready to make bread next morning, and will keep for a week, or longer in cold weather.

To make bread, allow one and a half cups of the above yeast, and one and a half cups hot water (added very slowly) to each loaf required, as much ginger as can be lifted on point of teaspoon, and enough flour to make stiff batter. set in warm place. When light (in about one hour), add dessertspoon salt, and about the size of a walnut of lard (melted) to each loaf; flour to make stiff enough to handle without sticking to hands. After kneading the flour in well. about ten minutes, make into loaves; set to rise. When light, bake.

Added points : The rule I follow in regard to proper lightness is when the dough is twice the original bulk. Always have all dishes and flour warm. If there is not sufficient water on potatoes. add enough to make the quart. Salt to suit taste. Strain yeast when making bread to remove possible lumps.

ONE OF THE MAIDS.

and according ment on the paper, bindly mention the FARMER'S ADVOCATE.



MARCH 9, 1905

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THE FARMER'S ADVOCATE.



### Early Spring "Doings."

We will suppose, now, that your seedboxes have all been arranged, and that you are patiently watching the miniature brown beds for the first peep of the tiny green leaflet, or the little bent hoop of pink or green, which proclaims that the germination of the first seed has been successfully accomplished. In the meantine, what else is there to do? Think a minute. Have your Chrysanthemums been attended to yet? Or are they still down there in the cellar, where they have been dozing since New Year's, gathering strength for their summer's growth? If so, remember that they have slept long enough. Bring them up; cut off all old stems that may be left; water with tepid water, and set them in the warmest, sunniest window you own. They will soon respond to your care by sending up a veritable forest of fresh, green sprouts, which you may let grow until it is warm enough outdoors to admit of your taking up the whole root and planting it out in the garden for the summer.

If, however, you want the very finest results next fall, try this plan with a few of the sprouts. When they are about four inches high, clip them off with a sharp knife slantwise, as close to the ground as possible, and plant them in shallow boxes of pure, clean sand, which should be kept continually wet. Set away for a few days in a shaded place until root growth begins, then move to warmer, brighter quarters. When well rooted, say in about two weeks, transplant to very small pots filled with good rich loam, moving again, when necessary, to larger pots. Finally, when the weather is warm, plant out in the open ground, and give plenty of water, until it is time to re-pot in the fall again. Begonias may be rooted in somewhat the same way by laying leaves flat on the sand, and covering up the stem ends with it.

In March also, bring up any Geraniums, Fuchsias, Roses, Lemon Verbenas, etc., which have been kept resting in the cellar for summer blooming ; re-pot in good soil and start into growth again. Remember that tepid water is always best for watering. Tuberous Begonias and Gloxinias should also be brought up at this time and re-potted.

Dahlia lovers should not forget that, to secure a long blooming reason in this northern clime, where frosts often come so early in fall, it is absolutely necessary to start the tubers in the house. The operation, however, is not difficult. Divide the tub rs and plant in sand or loam, being careful to have the right end up. Keep moist, and when the weather gets warm set the boxes outside for a while each day, bringing them in, or covering them up at night. Then, when six little pieces for the phane, "Songs all danger of frost is past, transplant into the beds. A great many people who have had plants flowering exhaustively during the winter make the mistake of expecting them to keep on growing during the summer just as though no tax had been made upon their vitality. As a result the growth becomes spindly or straggling, and when the next flowering season comes, there is nothing but disappoint-A lesson or two of this kind should teach one that a yearly time of rest is just as necessary for nearly all plants as the nightly period of sleep is for animals. In nature, plants get their rest either during winter as in the temperate zones, or during the hot dry seasons that visit most sections of the torrid regions. In caring for houseplants, we must strive to imitate these conditions as closely as possible; hence all Geraniums, Pelargoniums, Cyclamens, Cacti, etc., that have been blooming during the winter should be given their summer rest. After they have finished flowering keep a close watch on them, and as soon as the foliage gives any indication of dwindling or ripening off, begin to withhold the water supply gradually until finally just enough is given to keep the roots from dying out entirely. Set them away in a cool shaded place.

and keep there during the summer, then re-pot in the fall and force as rapidly as possible for winter blooming. Geraniums may be much benefited by being sharply cut back before the new growth begins. A continuous succession of Geranium growth may also be had, of course, if one chooses, by slipping and seeing to it that a number of young vigorous plants are always kept on hand. FLORA FERNLEAF.

### Mendelssohn.

Jacob Ludwig Felix Mendelssohn-Bartholdy.

#### Born, 1809; Died, 1847.

If there ever was a fairy prince in music, Mondelssohn must surely have been the one. Born of a cultivated Jewish ancestry and in refined surroundings, he represented that artistic type to which the world owes so much. His grandfather was the renowned philosopher, Moses Mendelssohn, his father though a money - getting business man, of a refined and lovable nature: his mother, a gentle lady, full of enthusiasm for the beautiful and moble.

Everything that affectionate care and wealth could procure for the promising hoy was at his command, and so we have him at seventeen producing a master work, not only as good as anything he wrote later, but a masterpiece recognized by the musical world-the overture to the "Midsummer Night's Dream."

Carl Von Weber; the poet, Goethe; the chose to drop a letter into a box with philosopher, Dr. Humboldt; Chopin, and her own hands I could in any way prethe Schumanns. The latter friends he met in Leipsic, where it may be said that Mendelssohn founded the famous Conservatory of Music .- Adapted from "The Great in Music," and "Masters of Music."

### TE LEAVENWORTH CASE

### By A. K. Green.

CHAPTER XXII.-Continued.

" I know it, and for that reason I have come to you for such assistance as you can give me at 'this stage of the proceedings. You are in possession of certain facts relating to this man which it concerns me to know, or your conduct in reference to him has been purposeless. Now, frankly, will you make me master of those facts; in short, tell me all you know of Mr. Clavering without requiring an immediate return of confidence on my part ?"

" That is asking a great deal of a professional detective."

"I know it, and under any other circumtances should hesitate long before proffering such a request; but as things are, I don't see how I am to proceed in the matter without some such concession on your part. At all events--'

"Wait a moment ! Is not Mr. Clavering the lover of one of the young ladies ?''

Anxious as I was to preserve the secret of my interest in that gentleman, I could not prevent the blush from rising to my face, at the suddenness of this question.

"I thought as much," he went on. Being neither a relative or an acknowledged friend, I took it for granted that he must occupy some such position as that in the family."

"I do not see why you should draw such an inference," said I, anxious to determine how much he knew about him. "Mr. Clavering is a stranger in town; has not even been in this country long; has, indeed, had no time to establish himself upon any such footing as you intimate."

"This is not the only time Mr. Clavering has been in New York. He was here a year ago, to my certain knowledge."

You know that ?" "Yes."

"How much more do you know? Can it be possible that I am groping blindly about for facts which are already in your possession ? I pray you listen to my entreaties, Mr. Gryce, and acquaint me at once with what I want to know. You will not regret it. I have no selfish motive in this matter. If I succeed, the glory shall be yours; if I fail, the shame of the defeat shall be mine."

'That is fair,'' he muttered. "And how about the reward?"

t woman from the imputation

vent her.'

"That is because you are a gentleman. Well, it has its disadvantages," he muttered, broodingly.

"But you," said I; "How came you to know of it? Ah, I see," remembering how the carriage in which we were riding at the time had been pro-cured for us by him. "The man on the box was in your pay and informed, as you call it."

Mr. Gryce winked at his muffled toes mysteriously. "That is not to the point," he said. "Enough that I heard that a letter which might reasonably prove to be of some interest to me. was dropped at such an hour into the box on the corner of a certain street. That coinciding in the opinion of my informant, I telegraphed to the station connected with that box, to take note of the address of a suspicious-looking letter about to pass through their hands on the way to the General Post Office, and following up the telegram in person. found that a curious epistle addressed in lead pencil and sealed with a stamp, had just arrived, the address of which I was allowed to see----

"And which was?"

"Henry R. Clavering, Hoffman House, New York."

I drew a deep breath. "And so this is how your attention first came to be directed 'to this man ?'' " Yes."

"Strange. But go on-what next?" "Why, I next followed up the clew, of course, by going to the Hoffman House and instituting enquiries. I learned that Mr. Clavering was a regular guest of the hotel. That he had come there direct from the Liverpool steamer about three months since, and registering his name as Henry R. Clavering, Esq., London, had engaged a first-class room, which he had kept ever since. That, although nothing definite was known concerning him, he had been seen with various highly respectable people, both of his own nation and ours, by all of whom he was treated with respect. And lastly, that while not liberal, he had given many evidences of being a man of means. So much done, I entered the office and waited for him to come in, in hopes of having an opportunity to observe his manner when the clerk handed him that strange-looking letter from Mary Leavenworth."

" And did you succeed ?"

"No; an awkward gawk of a fellow stepped between us just at the critical moment, and I missed seeing what I wanted to. But I heard enough that evening from the clerk and servants of the agitation which had been observed in him ever since he received it, to convince me that I was on a trail worth following. I accordingly put on my men, and for two days Mr. Clavering was subject-My reward will be to free an inno- ed to the most rigid watch a man ever walked under. But nothing was gained by it; his interest in the murder, if interest at all, was a secret one, and though he walked the streets, studied the papers, and haunted the vicinity the house in Fifth Avenue, he not only refrained from actually approaching it, but made no attempt to communicate with any of the family. Meanwhile you crossed my path, and with your determination incited me to renewed effort. Convinced from Mr. Clavering's bearing and the gossip I had by this time gathered in regard to him, that no one short of a gentleman and a friend could succeed in getting at the clew of his connection with this family, I handed him over to you, and-

ient wat tatoes are lespoonfuls one table it two-gal. Into this the potan add one quart cold add two have been ter. Stir (not tin). until the ly to make keep for her. ind a half one and a very slowuch ginger teaspoon, iff batter ip tightly; light (in oon salt, ut of lard make stiff ticking to r in well to loaves;

low in rewhen the ulk. Alwarm. If potatoes. Salt to en making MAIDS.

Mendelssohn, 1809-1847.

Ten years later came the publication of without Words." These are still prime favorites.

All of the Medelssohn works are characterized by sweet and pure melody, delicate harmonies and great timish of detail. Most of his orchestral overtures were written before he was twenty-one years old, and are full of fresh, boyish enthusiasm. The greatest of his works are his psalms and oratorios. . . . Elijah .. is full of beautiful and mobile effects, and St. Paul" has great brauties, one of the chief being the sopramo air : " Jerusalem. Thou that Killest the Prophets," one of the purest sougs for church use ever wtitten. " Oh, for the Wings of a Dove," from " Hear My Prayer," is one of the most beautiful church soprano pieces to be found. The melody, with its supporting harmonies, is an exact and poetic setting for the words. "The Wedding March " takes am important place, having been used by the world at large as a most suitable jubilation for voicing happiness at marriage ceremon-Nine times out of ten it is played ies. as the bridal pair pass out of the church. The combination of joyful pomp and lingering semtiment make it a masterpiece.

Among Mendelssohn's close friends and companions, were his sister Fanny, who married the famous painter, Henselt; did not see how if Miss Leavenworth

crime which hangs over her."

This assurance seemed to satisfy him. His voice and appearance changed; for a moment he looked quite confidential. Well," said he, " and what is it you want to know ?"

"I would first learn how your suspicions came to light on him at all. What reason had you for thinking a gentleman of his blearing and position was in any way connected with this affair ?"

"That is a question you ought not to be obliged to put?"

How so ?"

"Simply because the opportunity of answering it was in your hands before ever it came into mine."

What do you mean ?"

Don't you remember the letter mailed in your presence by Miss Mary Leavenworth during your drive from her home to that of her friend in Thirty-seventh Street ?"

"On the afternoon of the inquest ?" " Yes."

Certainly, but-----

"You never thought to look at its superscription before it was dropped into the box."

"I had neither opportunity nor right to do so."

"Was it not written in your presence ?''

"It was."

"And you never regarded the affair as worth your attention ?"

Whatever I may have regarded it, I

"Found me rather an unmanageable colleague.''

Mr. Gryce smiled very much as he might have done if a sour plum had been put in his mouth, but made no reply; and a momentary pause ensued.

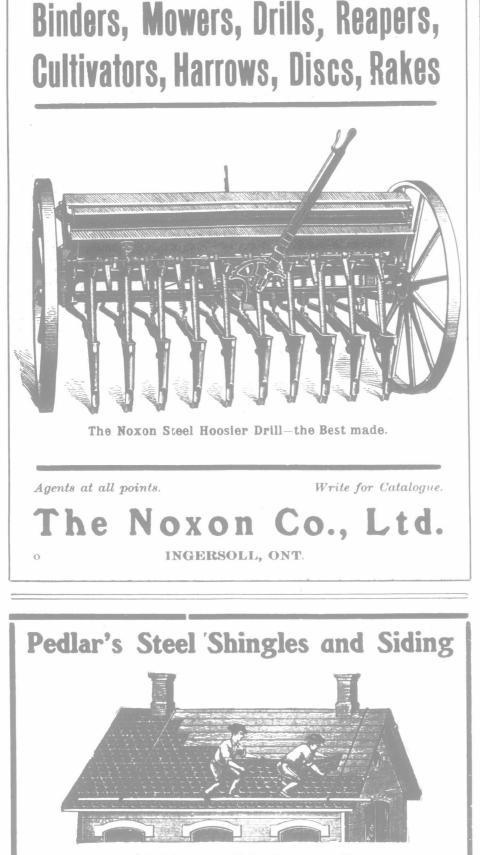
'Did you think to enquire,'' I asked, "if anyone knew where Mr. Clavering had spent the evening of the murder?

'Yes; but with no good result. That he was out during the evening they all agreed upon; also that he was in his bed in the morning when the servant came in to make his fire; but further than this no one seemed to know."

"So that, in fact, you gleaned nothing that would in any way connect this man with the murder, except his marked and agitated interest in it, and the fact that a niece of the murdered man had written a letter to him?"

(To be continued)





**3**50

At \$2.00 per 100 Square Feet

### THE FARMER'S ADVOCATE.

### GOSSIP.

Mr. J. G. Clark, of Ottawa, breeder of Ayrshire cattle and owner of the herd which made such a grand prizewinning record for itself and for Canada at the World's Fair at St. Louis last year, advertises for sale 25 head of young Ayrshires from four to twenty months old, sired by his first-prize bull at the World's Fair, and from cows named in the milkand-butter record of his herd; twenty of which averaged in 1904, of milk, 8,350 lbs. each, and of estimated butter, 369 lbs. each. Nine cows from this herd have won in the last three years in dairy tests: five firsts, three seconds, one third, and two fourth prizes. Until now, no heifers have been offered for sale, but the herd has grown so large that now males and females will be sold as re-

#### GEO. JOHNSTON'S SHORTHORN SALE.

Prominent among the public sales announced for the present month is the dispersion of the good herd of Shorthorns belonging to Mr. Geo. H. Johnston, of Balsam, Ont., to take place at his farm, near Claremont, C. P. R., on Thursday, March 23rd. Here has been quietly and unostentatiously built up a herd bred on intelligent lines with good females of many of the best Scotch families and some of the best old sorts, all of which have had the benefit of imported and home-bred bulls of first-class character and breeding, with the result that the cattle, which have been generously fed and cared for without being pampered or coddled, have been brought to a uniform type, that of the low-set, thick-fleshed class that mature early, while many if not most of the cows are good milkers and good breeders. Few herds in Canada, indeed, have had the use of as good a class of bulls; the farm being near to that of Mr. Arthur Johnston, of Greenwood, his best imported bulls were often used, while some of the best he ever sold were purchased and used in the herd, including those grand sires and individuals, Royal Sovereign (imp.) and Merryman (imp.). present stock bull, included in sale, Imp. Choice Koral, by Duthie's Choice, coming two years old the day of sale, is richly bred, and a splendid animal individually, while the females well represent many excellent Scotch-bred families. Those interested who have not received the catalogue, should lose no time in applying for it.

THE GREAT AYRSHIRE SALE. In addition to the 48 head of highclass Ayrshire cattle advertised to be sold by auction on March 22nd from the great herd of Mr. Ogilvie, at Lachine Rapids, near Montreal, Messrs. Robt. Hunter & Sons, Maxville, will contribute, to be sold at the same time and place, 16 head from their excellent herd, includng the imported two-year-old bull, Garclough Royal Edward; five yearlings, one imported, and six bull calves, born in August and November last, all sired by Imp. Lessnessock King of Beauty, and out of imported cows. This contingent will make the offering still more attractive, and this sale should prove an event of great interest to dairymen and farmers throughout the Dominion and the United States. The offering from the Rapids farm herd, as announced in Mr. Ogilvie's advertisement, includes 11 young cows, imported and home-bred. all the two-year-old and yearling heifers in the herd, numbering 26, 17 young bulls, 9 of which are fit for service, and 8 bull calves, 7 to 8 months old, many of these young things having been prizewinners at the leading shows in Canada last year. The imported cow, Carsegowan March Bell, champion female of the breed at the Dominion Exhibition last year, is included. All the younger animals are sired by the three great imported bulls in service in the herd, and all the females of breeding age have been bred to imported sires. These cattle have been selected and bred for utility and dairy type combined, special care being observed to secure large capacity, shapely udders, goodsized, well-placed teats, and the most approved dairy conformation, in which the Ayrshire sets the standard to which breeders of all other dairy breeds are seeking and striving to bring their cattle, and the nearer to this they atvalue.

FOUNDED 1866



Advertisements will be inserted under this heading, such as Farm Properties, Help and Stimations Wanted, and miscellaneous adverming. TERMS-Three cents per word each inser-

Thirdms-integeonds per word each insertion. Each initial counts for one word and figures for two words. Names and addresses are counted, Cash must always accompany the order. No advertisement inserted for less than 50 cents.

GINSENG-Canadian roots best. Write E. Beat-

SWAN RIVER FARM — My husband being deceased, and finding renting unsatisfactory, I offer, cheap, 320 acres first-class improved land, For further information write Mrs. N. Gable, Swan River, Man.

FARM HAND WANTED-Married or single, by the year; state wages; none but good men need apply. Address, Farmer's Advocate, London, Ont.

A QUANTITY of pure spring ice for sale at the Asylum for Insane, Londor. Apply to the Burgar.

Dursar. DUTTER factory for sale, with modern (quipment, on railway, within easy reach of Ottawa; fine nairying country; capacity, 1,500 lbs. daily; in operation some years; cffered as a going concern. Wood and ice supply on hand. F. X. Laderoute Real Estate Agent, 174 Bank street, Ottawa, Ont.

TO LEASE—The Grenfell Creamery, for one or a term of years. A complete and first-class building and equipment, excellent district, where five or six hundred cows are kept. A splendid businessfor a live man. All information can be obtained by addressing W. H. Thompson, Sec. Grenfell Creamery Ass'n., Grenfell, N.-W. T.

A SPLENDID opportunity to right man. Every business in his county by investing \$200 or more, address Mr. Chas. Rumpf, 360 Main St., Rochester, New York.

**RRIGATED** farm for sale in Southern Alberta, Good buildings; ditches all in; near school; six miles from town. Excellent reason for sale. Apply for particulars to A. M. Marshall, Minot, N. D.

WOODROFFE AYRSHIRES

25 head for sale, 4 to 20 months old, from cows named in my herd record, and sired by latprize bull at St. Louis World's Fair. **YORKRHIRE SWINE** of best breeding always on hand at moderate prices. Terms to suit purchasers. Inspection invited.

J. G. CLARK, - Ottawa, Canada.

#### MR. HOWDEN'S SALE.

The dispersion sale on March 22nd of the entire herd of Shorthorn cattle and stock of Clydesdale mares and fillies, besides other stock and farm implements. belonging to Mr. W. G. Howden, of Columbus, Ont., near Myrtle Station, G. T. R. and C. P. R., will afford an excellent opportunity to secure at the buyer's own price the most useful class of dualpurpose cattle and farm horses. A review of the pedigrees of the cattle reveals that an unusually good class of sires have been used in the herd for many  $% \left( {{{\left( {{{{\left( {{{{{{{}}}}} \right)}}} \right)}}}} \right)$ years, both from the view point of breeding and individual merit. A list of these sires was given in our notice of this sale in last week's issue, and it is only necessary to add that the use of such bulls could not fail, where reasonably good care has been given, to mould the type and character of the herd to the most approved type, as we are assured these cattle are. The foundation stock in this case were, as a rule, goodmilking cows, and the same quality shows strongly in the herd yet, while the topcrosses have been Scotch-bred bulls of the best beef type, many of them have deep-milking dams as well. The imported bull, Meadow Lord, included in sale, is of the excellent Kilblean Beauty tribe, noted for its good milking quali-Mr. Willis' great cow, White ties. Heather, of this same family, three times champion female of the Royal Show of England, swings an udder like that of a dairy cow, and this feature of her makeup has carried her to the front in many a close contest. There are half a dozen young bulls in the sale ready for service, sired by this grandly-bred bull, and these should be secured by farmers wanting the best class of dual-purpose cattle.

We have a comple e assortment of Sheet Steel Roofing and Siding, suitable for all kinds of buildings, including plain Brick, Rock-faced Brick, or Stone Siding, at \$2.00 and \$2.35 for Painted Steel, and \$3.50 and \$3.65 for Galvanized Steel. Steel Shingles in Two Styles and Six grades, varying in price from \$2.50 per square for Painted to \$4.50 per square for best galvanized.

### Absolutely Wind, Water and Storm Proof.

Nothing on the market compares in price and durability to our Sheet Steel Building Materials. Over 5,000,000 Square Feet sold in 1904. Write for Catalogue No. 11 describing all grades. State requirements, and special prices will be given.

### Pedlar People, Oshawa, Ont.

Mr. Thomas G. Boun, President, Port herd of pure-bred Shorthorns; they Perry, Ont., will The Provincial having been bred and contributed by anction sale, to be blue Port Perry, such noted breeders as John Davidson, March 14th, well restate some grand Ashburn; Colwill Bros. Newcastle; Wm. specimens of Shedder the state as young Ormiston, Columbus; W. E. Dyer, Co-Lalla of breading to data of to two lumbus; J. W. Disney, Greenwood; T. C. years old, thick, they, we have we and McAvoy, Balsam; Sam Johnston, Ashburn; John Duff, Myrtle; James Jackall of good nel son, Scugog; Thomas Redman, Port yests Perry ; James Leask, Greenbank ; Thomas The females are 1 old Those of h either Graham, Port Perry; Wm. Polock, Seat i d Muong grave; J. McRoberts, Shirley; Alex. in culf or have yes and Jeffrey, Whitby; John McKenzie, Colum-bus, all of whom are up to date in breede are some thin ing Shetthorns, as the stock on day of tain, the greater their usefulness and helfers that would make read stock for any per on wishing ' a sale will show."

STEELE-BRIGGS SEEDS.—Now is the season to order farm and garden seeds, so as to have them on hand when wanted, and avoid any disappointment on account of failure or delay in filling orders of the varieties wanted. The Steele-Briggs Co., Ltd., of Toronto, is in an exceptionally good position to supply you with stock of the highest excellence, and widest assortment. Get their catalogue.

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### FUJI MICRO S

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man. Every well paying 200 or more, ., Rochester,

ern Alberta, ar school; six sale. Apply, N. D.

### HIRES from cows

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Canada.

E. h 22nd of cattle and fillies, bemplements, en, of Coion, G. T. an excelhe buyer's ss of duals. A recattle re-l class of d for many t of breed-A list of notice of

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### MARCH 9, 1905

### **QUESTIONS AND ANSWERS.** 1st.—Questions asked by bona-fide subscribers to the "Farmer's Advocate" are answered in this department free.

and.—Questions should be clearly stated and

#nd.-Question's should be clearly stated and plainly written, on one side of the pa er only, and must be accompanied by the full name and address of the writer. Srd.-In veterinary questions, the symptoms especially must be fully and clearly stated, otherwise satisfactory replies cannot be given. Mth.-When a reply by mail is required to urgent veterinary or legal enquiries, \$1 must be enclosed.

### Miscellaneous.

WORMS IN COLTS. Can you give proper treatment for worms in colts coming one year old? Mine have pinworms, I think, as colts keep rubbing their tails. E. A. O. Ans.-Give half a pint of raw linseed

oil and one to one and a half ounces of spirits turpentine (according to size and age) on an empty stomach, following in one hour with a hot bran mash. Repeat for three mornings, then give iron sulphate, dram doses, night and morning for eight days; then oil and turpentine as before. An enema (injection) of two ounces quassia chips, steeped in one quart boiling water, when cooled to blood heat. may be given once or twice a day.

CORN MEAL V3. FEEDING FLOUR. Which is the better to feed fattening

steers, corn meal or a good quality of feeding flour, corn or flour to be mixed with bran? A. B. X. York Co., N. B.

Ans .- Unless the balance of your ration is very deficient in protein, we would expect decidedly better results from corn meal and bran. Even if using timothy hay or straw it would probably be well to add some protein by substituting for part of the corn meal a pound or a pound and a half a day of oil or cottonseed meal. Flour can rarely be used with profit by the stockman, though there is a kind-the lowest grade-known as 'dark feeding flour,' which usually contains the germs of the wheat grain, and is thus rich in protein and fat. Such flour has high feeding value, but the chances of getting it are not sure enough to warrant the average feeder in depending upon it.

DANGER FROM INCUBATOR LAMPS?

Is there any danger of an incubator lamp exploding and setting fire to your house? I have heard of one setting fire to a house, but the people did not know if the baby upset the lamp or it exploded. J. H. B.

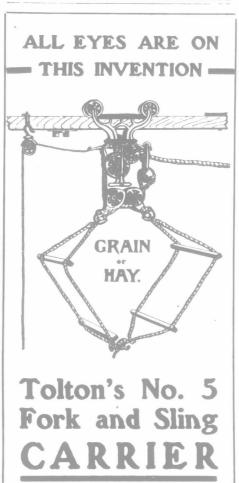
Ans.-There is no more danger than with an ordinary house lamp. Always wipe all oil from the lamp. Never fill quite full, and do not go away leaving it flaming up too high. Now and then lift the screen that is around the burn. and thoroughly clean all dust from it Should the light flicker, see if the screen is not filled up with dust. The dust absorbs oil from the wick, and should the burner ever get hot enough to form gas, it will explode. All that is required to insure safety is ordinary attention and common sense.

### THE FARMER'S ADVOCATE.

### TROUBLE WITH PIGS.

Young sow had ten pigs, three of them were dead. She had six living first, then one dead, and then one living and  $\mathrm{two}$ dead. She was in a pen by herself for two months before iarrowing. Pen was 5x8 ft., not very large, but always kept dry. This was her first litter. Would it be wise to breed her again? What was cause of the trouble? H. B.

Ans.-Lack of exercise was probably the cause. Yes, we would breed her again. Her next litter may be all right if she gets plenty of exercise.



Unequalled for simplicity, durability, and efficiency. Thousands now in use, giving the best of satisfaction. All kinds of Slings, Forks and Carriers, suitable for wood or steel track-Send for descriptive circular or see our local agent.

**TOLTON BROS.**, Ltd. P.O. Boz 476, GUELPH, CAN.

IMPORTED CLYDESDALES One stallion, 5 years old, was the first-prize horse at the Royal Show, Scot-

### GOSSIP.

The catalogues for the Provincial auction sales of pure-bred stock at Ottawa, March 10th; Port Perry, March 14th Campbellcroft, March 16th, and Guelph, March 22nd, are now ready for distribution. All entries were inspected before being accepted, in order to ensure a good class of animals being offered. They are all Shorthorns, except one Hereford bull and two Hereford females, which will be sold at Guelph. The number of head to be offered at the sales is as follows:

|               | Bulls. | Females |
|---------------|--------|---------|
| Guelph        | 51     | 24      |
| Port Perry    | 18     | 10      |
| Campbellcroft | 15     | 10      |
| Ottawa        | 20     | 13      |
|               |        |         |

The dates of the sales are so arranged that it will be convenient for buyers to attend and purchase at each of the sales. Purchasers from a distance will be able to obtain stabling for a short time for any animals purchased, upon payment of cost of feed and care. One special feature this year will be the offering of prizes, in the shape of ribbons. Prizewinning animals will be sold first, and the ribbons will go to the purchasers. Following the prizewinners, the animals will be sold according to age; bulls first, and then females in the same order. Certificates and transfers and breeding lists will be supplied at the time of the sale. The secretaries of the sales are : E. Mc-Mahon, Ottawa; J. H. Brown, Port Perry; W. B. Campbell, Campbellcroft, and John McCorkindale, Guelph. Particulars and catalogues of the sales can be procured from any of these gentlemen, or A. P. Westervelt, Secretary Live-stock Associations, Parliament Buildings, Toronto.

A , few days ago out field marshal called upon Mr. Hugh Thomson, who lives on the outskirts of the old stone town of St. Mary's, in Perth Co., Ont. Mr. Thomson has long been known as a discriminating judge, and one who is never satisfied unless he has some choice Shorthorns around him, and those he has now are no exception to the rule, although just a short time before our visit he had sold three cows, each with a bull calf by her side, namely: To H. J. Davis, Woodstock, a Crimson Flower heifer. woodstock, a criminal and a state with her calf by Springhurst =44864=, grandsire the Kilblean Beauty bull, Royal Prince (imp.); to Kyle Bros., Ayr, a red cow, by Scottish Beau, and a Cruickshank Lovely, with her calf by Velvet chief. This herd is headed by a young imported roan bull, Scottish Hero, Vol. 21, sire Marconi (81613), dam Bertha 7th, Vol. 57, E., by Sir James (82334), who was by the Miss Ramsden bull, Lord Lynedoch (74900). Scottish Hero's grandam, Bertha 4th, was sired by the Marr Missie sire. Murillo (71054). This young bull, as can readily be seen, carries with him a long line of good breeding, and he is quite as strong individually as his breeding indicates. He is an exceptionally even, smooth, thick in natural flesh bull. Among the young bulls that Mr. Thomson has for sale is the red and white Queenston Diamond =51761=, fourteen months old, from Queen's Diamond, by Imp. Derby. The sire of Queen's Diamond, Mina Duke =24317=, has a double cross of Cruickshank Victoria blood, through his sire, Indian Chief, the great sire of prizewinners. Another one that is ready for service is Wimple King 2nd, a dark roan, fourteen months old, sired by the roan Beauty bull, Diamond's =43679=, dam Ida Wimple, by Royal George (imp.) 17106. Ida Wimple won second prize at London as a calf. This is a growthy fellow that also promises to be a very good one. Among the females is Miss Cloud, Vol. 18, sire Brawith King =12910=, a Snowdrop, with a nice heifer calf at foot by Velvet Chief, a show bull of Mr. Thomson's own breeding. Golden Queen, Vol. 19, a fine Golden Drop, by Scotchman =40420== (imp.), dam Golden Drop =20597=, has a choice red bull calf at foot, by Dundee =50472=, who is of the same family as Robbins & Sons' noted show bull. Another good roan cow is Lady Cloud, by Roan Cloud =31317=, by a Cruickshank Duchess of Gloster sire has a fine bull calf at foot, by Velvet Chief. Mr. Thomson keeps only a small herd, and his ambition is to keep only good ones and keep them well.

### THE REPOSITORY

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### **Clydesdale Stallions** and Mares

TUESDAY, MARCH 14, 1905 At 11 o'clock.

By instructions from Messrs, Smith, Rae & Greer, solicitors, we will sell on the above date **THREE STALLIONS and THREE MARES**, the property of **MR. JOHN INNIS**, **Aberdeen**, **Scotland**, trustee of the sequestrated estate of Tel-fer Forbes Ironside. These stallions and mares are a particularly fine lot, and can be seen at any time at The Repository up to hour of sale. The following is a partial list :--"**THANE O'OLYDE**" (12888), black, foaled

THANG O'OLYDE'' (12388), black, foaled 15th June, 1899. Bred by I. Macdonald, Pennygowan, Campbelltown, Scotland, Sire "Gallant Prince" (10552), dam "Jess of Pennygowan" (9913), by "Prince vid" (643). 'TAM U'AHANTER'' (19387), bay, foaled

"TAM U"HANTER" (13387), bay, foaled 24th June, 1898. Bred by Wm. Gray, Shanter, May-pole. Sire "Prince Alexander" (8899), dam "Bonnie Jean' (11802) by "Harold" (8854). "GOLD LINK" (11732), chestnut, foaled 22nd April, 1899. Bred by R. Sinclair, Scott, Burnside, Lays, Ayrshire. Sire "Prince of Johnstone" (9986), dam "Scottish Princess" (12916) by Prince of Cath-cart" (80150).

cart" (89150). "LADY LOOKHART" (11269), bay, foaled 19th April, 1889 Bred by I. M. McCaig, Barnultoch, Stranzer, Sire "Darnley's Hero" (5697), dam "Jean of Barnultoch" (4778) by "Derby" (227) Pedigrees and descriptions of two other mares not at herd on warment witting but avance to have some at

hand at present writing, but expect to have same at time of sale.

time of sale. Also on the above date, by instructions of Wm. Duncan, late of Wester Greens and Redhill, Moray-shire, we will sell the beautiful imp. Clydesdale stallion "OKOWN OD THE KOSES" (12114), 5030, "URTOWN UP THE KUSLS" (13114), 5030, Vol. XIV., C. S. B., of Canada, dark brown, foaled June 1st, 1900, bred by Wm Simpson, Burnside, Fochabers, Sire "King of the Roses" (9927, Vol. XVII). dam "Nayli" (3221, Vol. VII), by "Boydston Boy" (111, Vol. I). Extended pedigrees will be furnished on day of sale. The above are in first-class condition and an ex-tended pedigrees will be furnished on day of sale.

The above are in first-class condition, and an ex-ceptional opportunity is here afforded breeders and others interested to secure some of the very best Clydesdale blood ever offered in this country. Every lot will positively be sold without reserve. 120 HORSES, all classes, will also be sold on

same date. BURNS & SHEPPARD, Props. and Auctioncorps. The Repository, Cor. Simcoe and Nelson Sts., TORONTO.

Note the advertisement of four imported Clydesdale stallions and three imported mares, aged four to six years, property of Scottish breeders, to be sold at auction, without reserve, on March 14th, at the Repository, Toronto, where also 120 horses of all classes will be sold on same date.

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Now is the den seeds, hand when opointment v in filling ted. The oronto, is sition to highest exient. Get

GESTATION PERIOD-GREASE TO WOOL HORSE'S KEEP.

1. How long does a sow carry her young ? Do they go longer than sixteen weeks ?

2. How much grease for a pound of wool being sent to the mill to be carded? 3. If we hire a man who has a horse, and the agreement was for the horse to work for its board in summer, what is the usual charge for keep per month for winter months ? J. J. C.

Ans.-1. As a rule, a sow that has had ample exercise and is in vigorous h alth, produces her litter at the expiration of 16 weeks from date of service, to a day or two, but fat sows that have had little exercise during winter occasionally run four or five days over that time.

2. One pound of grease to ten of wool. 3. It depends largely upon what amount of grain is fed. Liverymen state they have horses wintering with farmers, getting hay and one feed of grain per day, for one dollar per week. This may serve as a basis for deciding the question, if it is to be considered apart from the summer arrangement, which would appear to have been favorable to the employer.

and, and is a foal-getter. For breed-ing he stands in with the best, being a half-brother to the famous Baron's Pride sired by Sir Everard, while his dam is by the unbeaten show horse. Prince of Carruchan, by Prince of Wales, gr. dam by Top Gallant, g. gr. dam by Prince of Renfrew. Also mares, from rising one year up to brood mare in foal, with good quality and breeding. These horses were imported last Octo-ber. Will sell on small profit. and, and is a foal-getter. For breed-

WM. FULFORD, Heathcote P. O., Ont. Thornbury Stn., G. T. R.

SPRINGHILL **AYRSHIRES** We will sell by auction on the 22nd March, 1905, 11 young bulls, 5 of which are fit for ser-vice. Also 5 young cows and heifers. Sale to be held at Lachine Rapids Farm, and will take place right after the Ogilvie sale. For further information and catalogues, apply to o Robt. Hunter & Sons, Maxville, Ont.

#### GOSSIP.

The demand for Shorthorn bulls at the Perth sale on February 21st was very animated, many of the animals being purchased for the Argentine. The highest price was 600 gs. for Captain Graham Stirling's first-prize yearling, the purchaser being Mr. Miller, while Mr. MacLennan gave 500 gs. for the secondprize winner, exhibited by Mr. Stewart, Millhills. Others made high prices. Mr. Colman bought one at 320 gs.; Mr. Hume, whose first-prize winner made 350 gs. to Mr. MacLennan, had an average of £273; Captain Graham Stirling, £245; Mr. Stewart, Millhills, £235. The average for 249 bulls was £49 11s. 11d., against £36 13s. 3d. last year.

Lloyd Osbourne says that Robert Louis Stevenson once invited a friend to visit him in Samoa.

His friend said that nothing would give him greater pleasure, if he could secure the leisure to do so. " By the way, Louis,'' said he, '' how do you get to Samoa, anyway?''

"Oh, easily," responded Stevenson, "you simply go to America, cross the continent to San Francisco, and it's the second turning to the left."

Bishop Ellison Capers, of South Carolina, recently addressed a meeting of Confederate veterans in Columbia.

In the course of his addres Bishop Capers spoke of those men who deceived their wives, pretending that they are detained late at their offices on business, when really they are spending the evening at the theatre or the club.

'These men," he said, " are fewer than the comic writers of the press would have us believe, but, nevertheless, here and there, they do exist. I wish that they could all be caught as nicely as one of them, a resident of Columbia, was caught the other day.

"He said to his wife, as he was leaving home in the morning :

"Oh, by the way, my dear, if I find I can't get away from the works in time for dinner to night, I'll send you a note

The wife in a tart tone replied :

"'You needn't bother. I have already found the note in your coat | pocket."



GOSSIF.

A large Standard-bred stallion and a brood mare of same class, in foal, are advertised for sale by Dr. R. C. Coates, Thamesville, Ont.

An important auction sale of imported and home-bred Clydesdale mares and fillies is advertised in this issue of the "Farmer's Advocate" by Mr. Nelson Wagg, of Claremont, Ont., a station on the C. P. R., about 25 miles east of Toronto, to take place there on Thursday, March 16th. These are said to be an exceptionally good lot in breeding and quality, being sired by and some of them in foal to the best imported stallions in that district, which is famous for its high-class Clydesdales. Note the advertisement, and write for catalogue and particulars.

An important auction sale of 80 Shropshire and Dorset sheep, property of Mr. H. Alston Hanmer, of Mount Vernon, Brant Co., Ont., is advertised in this number to take place on Thursday, March 16th, at his farm near Burford Station. on the Harrisburg to Tilsonburg branch of the G. T. R., about 9 miles from the City of Brantford. The offering includes a large number of breeding ewes in lamb to imported ram, and ewe and ram lambs of last year; also fifteen-months-old Shorthorn bull and two-year-old heifer in calf, registered Jersey and registered Ayrshire cow and other stock. The stock is of a very desirable class, and the sale affords a favorable opportunity to purchasers.

### MR. GEO. FERGUSON'S SALE.

Attention is again directed to the important auction sale on March 17th of Shorthorn cattle, Clydesdale horses, Oxford Down and Leicester sheep and grade steers, property of Mr. Geo. Ferguson, Salem. Ont., near Elora, G. T. R. and C. P. R., 20 miles north of Guelph. The Shorthorns in this herd are deeply bred in the blood of those great sires, Barmpton Hero and Royal Sailor (imp.), whose progeny have probably produced more prizewinners and champions at leading Canadian shows than any other two that could be named. The herd has also had the benefit of the services of the long list of first-class Scotch-bred bulls used in the noted herds of the Watts, of Salem, and the cattle are said to be of the right sort-thick-fleshed and up-todate in type and quality. The Clyde mare, Lady Lyndoch, rising five years old, is by Master Lyndoch (imp.), a noted stock-getter in Wellington County, and is in foal to Red Duke (imp.), the only horse that ever beat in the showring the Toronto champion, Young Mc-Queen Ella, rising three, is of Queen. fine quality, with clean, flat bone and fine hair, sired by Just the Thing (imp.), a horse of grand breeding and quality, and a fine stock-getter. The registered Oxford Down d and

SEEDS .- Now is the time to look after the clover and grass seeds to be sown this spring. Wm. Rennie, of Toronto, puts up specially-branded packages of guaranteed high-class seeds. See his advertisement in this issue.

Mr. W. D. Flatt, Hamilton, Ont., has sold to Mr. Alex. Giffen, of Snelgrove, Peel County, Ont., the red yearling Shorthorn bull, Royal Mistletoe, sired by the Duthie-bred Lord Mistletoe (imp.) (81522), of the Marr Missie tribe, conceded to be the most popular in Scotland, dam Princess Royal 21st (imp.), of the favorite Cruickshank Princess Royal family. Lord Mistletoe was sired by the noted Broadhooks bull, Lovat Champion (78948), bred by Lord Lovat, winner of first-prize at Inverness Show in 1899 in a large class, and of the Shorthorn Society's prize, and heading the winning group. The dam of Royal Mistletoe was by Life Line, of the celebrated Inverquhomery Augusta family, bred by Mr. J. Bruce, a family which has furnished many Smithfield winners. Royal Mistletoe is of the early-maturing type, full of quality and good enough to use in any herd. Mr. Giffen is to be commended for his enterprise in taking a bull of such high-class character into his district.

### A TRIO OF SHORTHORN SALES.

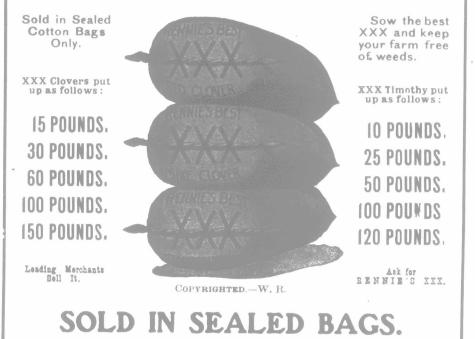
Three important dispersion sales by auction of high-class herds of Shorthorn cattle in Ontario are advertised in this paper to take place on the 21st, 22nd and 23rd days of this month, in the following order: On the 21st, the noted herd of Goodfellow Bros., of Macville, near Bolton, C. P. R., 25 miles north of Toronto; on the 22nd, the old-established herd of W. G. Howden, Columbus. near Myrtle Station, on C. P. R. and G. T. R., 35 miles east of Toronto, and on the 23rd, the excellent herd of Geo. H Johnston, of Balsam, at his farm near Claremont, C. P. R., 29 miles east of Toronto. These sales can conveniently be attended in succession at practically the expense of one trip, and it is seldom that so many good cattle of the best type are offered under circumstances affording so good an opportunity to make a selection. There should be a good attendance at these events. The cattle are needed all through this country for the improvement of our stock, and the present is a favorable time to buy, as there are no fancy prices expected, and the animals will go at the buyers' prices.

### THE JERSEY SALE.

It is not often that a herd of Jerseys is offered at auction in this country, and the dispersion of the Ettrick herd of Mr. W. G. Laidlaw, of Wilton Grove, near London, Ont., is only being effected owing to the sale of his farm, he having decided to join the exodus to the pr lands of the West, for more elbow room for his family. The sale, which takes place March 15th, as advertised, includes among many good ones, the beautiful, five-year-old cow, Cream Cup Pride 141239, winner of sweepstakes at the Western Fair, London, and her son, born in August last, will be in the show-ring as under a year at the big fairs next fall, and promises to be a winner in any company. The grand imported cow, Helen Varick, has also a heifer calf, born in August last, that gives every promise of being a prizewinner, being of perfect dairy conformation, and these grand cows are bred to calve again in August, so that show calves may be looked for again. The stock bull, Columbine's Coronation King, in his two-year-old form, is a show bull of the first rank, and richly bred, his dam, the grand imported cow, Uncle Peter's Columbine being one of the very best in this country in form and function, while his sire is the son and grandson of Toronto champions, male and female. There are also a number of excellent young cows of richest breeding, deep in the blood of the noted high-producing St. Lambert and St. Helier families, and the best Tennessee strains, while the younger things have top crosses of the best of recent importations from the Island of Jersey, combining beauty and utility in the highest degree. Dairymen, farmers and town people wanting a family cow, and breeders looking for show stock, should attend this sale.

# RED CLOVER, ALSIKE CLOVER. TIMOTHY.

**RENNIE'S BEST** 



Cleaned with Special and Improved Machinery and is ACKNOWLEDGED BY LEADING AUTHORITIES TO BE THE HIGHEST GRADES OBTAINABLE

### **KEEP YOUR FARM CLEAN.**

The greatest care has been exercised in the selection of these grades of Clover and Timothy Seeds, which are not only true to name, but the purest obtainable and of the highest germinating quality which the last harvest has produced. We belive our efforts to supply the best seed in the market will be appreciated, and the mall additional expense, which we are obliged to a k for these high-grade seeds in advance of the price at which ordinary samples can be had, will not be

352

FOUNDED 1866

Leicester sheep and steers should find ready buyers, the outlook for such stock being favorable. Teams will meet trains at Elora and also at Alma, G. T. R., on morning of sale.

### WHEN ALL ELSE HAD FAILED

### Dodd's Kidney Pills Cured His Bladder Troubles.

### James Atwell Proves that Lumbago and Bladder Troubles are Caused by Diseased Kidneys.

Campbellford, Ont., Murch 6.-(Special.) -That Lumbago and Bladder Trouble are both caused by diseased bidneys has been shown in the case of Mr. James Atwell of this place. Mr. Atwell says

"I had Lumbago and Bladder Trouble In passing my urine would hurt me so as to almost cause tears to come to my eyes. I used medicanes and a Fandage prescribed by my doctor but got no re-hel. Then I tried builds Kidney Phils and they cured me for good and all. I will never be without bouch's Kidney Pills

ne your Kidneys sch Bodd's ballaey Fulls and they will strain the invises of Lumbago. Rheumati to Dropsy or Blad der Troubles out of the blood

considered a tax.

In order to avoid disappointment and prevent other seeds being sold as "Rennie's Best," we have adopted the plan of selling our Highgrade Red Clover, Alsike Clover and Timothy Seeds in cotton bags, sewn and sealed with "XXX" across the sewn part of the bag. It can then be readily noticed when the bag has been opened-(the XXX will be broken in the centre).

### OUR RESPONSIBILITY CEASES WHEN THE SEAL HAS BEEN BROKEN.

# WILLIAM RENNIE, TORONTO, ONT.

Messrs. Robert Hunter & Sons, Max- of imported cows. A fuller descriptisement, and write : "We have ar- logue." ranged with Mr. Ogilvie to put in his auction sale, on March 22nd, from our herd 16 head of high-class young Ayrshires, in order to make the sale even ported two-year-old bull, Garclaugh more of the same kind. Royal Edward (imp.) 18746, and five yearlings, one of them imported in dam, Clydesdales, Shorthorns, Yorkshires Lessnessock Blucher -18532-, and six essock King of Beauty -16768-, and out

ville, Ont., announce in a special advertion of each will be found in the cata-

Note the offerings in this issue of Dugald Ross, Streetsville, Ont., who has for sale a number of Clydesdales, Shorthorns and more attractive to a wider circle of Yorkshires. Mr. Ross has been shipping buyers. The lot is composed of one im-Yorkshires. Mr. Ross has been shipping

DUGALD ROSS, Streetsville, Ont.



DED 1866

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#### GOSSIP.

MARCH 9, 1905

MR. BEITH'S GREAT HACKNEY SALE. Wednesday, March 29th, is the date of the great dispersion sale by auction of the Waverly stud of imported and homebred Hackney stallions, mares and fillies and harness and saddle horses, belonging to Mr. Robert Beith, of Bowmanville, Ont., comprising the greatest aggregation of high-class horses of this class in America, including the male and female championships at the World's Fair, St. Louis, the Canadian National, Toronto, and the International, Chicago, and a long list of first and second prize winners throughout the classes at these great events.

The many-times champion and grand champion stallion of 1904, Saxon -97a brown, five-year-old son of the champion Imp. Robin Adair II., out of Fimber Pride (imp.), is the pride, not only of Canada, but of the continent, a magnificent horse in size, conformation, finish and action, a prince among his peers in any country, and a credit to the country that produced him, and to the judgment of Mr. Beith in securing and bringing him out to make a reputation for himselfand for Canada as a horse-producing country. Saxon combines size, style and sensational motion in the highest degree, and is transmitting his splendid strength and quality to his offspring, and should prove a fortune to the purchaser who secures him.

Royal Drewton (imp.) -218- is a chestnut three-year-old horse of fine style and splendid contour, with fine limbs and feet, and splendid carriage and action, and is a son of His Majesty, who was one of the best sons of the Famous Matchless of Londesboro. His dam, Bouquet (1033) was by the renowned Wildfire (1224). In 1904, Royal Drewton was first at Chicago, and before importation, first at Market Weighton, where strong classes of the best in England are to be seen. He also took fifth place at the premier show of England, the London Hackney Show. Wadsworth Squire (imp.) -217- is a bright chestnut, in his three-year-old form, has the finest of legs and feet, splendid style and action, and is a particularly toppy horse, with the right kind of quarters, coupling, withers and crest, together with lots of substance and quality, which he comes by honestly, being a son of England's best sire, Garton Duke of Connaught, dam by the famous Driver (198). Ivanhoe -124- is a very promising bay three-year-old colt, bred by Mr. Beith. He is of the right conformation, the kind that are winning money in the showrings, sire Squire Rickell, dam Imp. Florence. St. David (imp.), Vol. 22, E. -216-, a bright chestnut three-year-old, has won full honors for his age, shown only once in England, winning second at Market Weighton, first-prize junior championship at St. Louis, and reserve grand championship, first and reserve champion at Toronto, first and reserve champion at Chicago, 1904; sire Pres. Roosevelt (8266), dam Lady Pilkington, Vol. 22, E., by Pioneer (1088). He promises to be a horse of good size, is of clean-cut symmetry, typical Hackney conformation, character and action. Cliffe Rosador (imp.) -219- (8416) is a fine, upstanding chestnut, with white marks on face and four white fetlocks, with lots of substance and fine quality. He is developing into a mover of the most sensational kind, and gives every promise of becoming one of America's leading show horses. He was third at St. Louis, second at Toronto and second at Chica-His dam was the dam of Cliffe Roberts, champion at Toronto in 1903. His sire is Rosador, a London, England, champion, and sire of the champion mare at London last year. Bred as he is, Cliffe Rosador can hardly fail to become famous as a breeder, and will be a credit to any community. Terrington Bellerophon is a colt of great promise, a bright chestnut with blaze and two white stockings, of good conformation and substance and great style and flashiness, a get of the good horse, Goldfinder 6th, by Danegelt, dam Terrington Bella Donna, by Con-Lord Meltonby, Vol. 22, E., 215-, is a fine bay yearling, with star in face and white hind fetlocks, unbeaten as a yearling, winning first and reserve for junior champion at St. Louis, first at Toronto, also winner at London, Eng. He is sired by Langton Squire, dam Meltonby Nancy, by Prince Alfred, grandam by Danegett. Mister Dooley is promising dark brown, bred by Mr. Beith, is a colt of remarkable quality,

### THE FARMER'S ADVOCATE.

### **IMPORTANT AUCTION SALE** On Friday, March 17th, 1905

The property of **GEORGE FERGUSON**, **SELOM**, Wellington County, Ont.. at his farm, 2 miles from Elora, G T R. and C. P. R., 1 mile from Alma, G. T. R., and 20 miles from Guelph, when will be sold without reserve

**27 HEAD OF SHORTHORN CATTLE** 25 Cows and Heifers and 2 bulls. 2 REGISTERED CLYDESDALE MARES Rising 5 years old, sired by Master Lyndoch, grandam imported, in foal to Red Duke (imp.); 1 mare rising 3, by Just the Thing (imp.) dam by St. Gatien (imp.).

### 12 OXFORD DOWN EWES and 1 RAM

Registered; ewes supposed to be in lamb. Bay Horse, rising 4 years; Black Mare, 7 years; 2 Grade Cows in calf. 28 Grade Steers, rising 2 year, 12 Grade Leicester Ewes, 1 Ram. THE MA-Stant under, cash; over that amount, 10 months' credit on approved joint notes, 5% off for cash.

Send for Catalogue.

THOS. INGRAM, Auctioneer. GEO. FERGUSON, Salem, Ont.

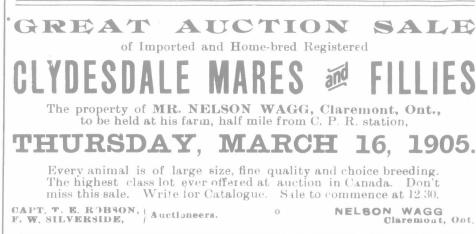
# **POSTPONED SALE**

Our sale of PURE SCOTCH SHORTHORNS advertised to take place on February 16th was postponed owing to the railway blockade, and will take place on

**TUESDAY, MARCH 21, 1905**.

All trains on the Owen Sound Division of the C. P. R. will stop on the farm on day of sale. om

GOODFELLOW BROS., MACVILLE, ONT.



### AUCTION SALE

with a sharp, clean-cut style that will recommend him to purchasers. He is a choice colt of fine action, sire the good breeding horse, Alarm -134-, by Wildfire, dam Lady Brookfield, by Cadet (imp.). Lady Brookfield was the dam of the winner at the Ottawa Winter Fair, 1904, Toscar, who went to the Argentine at a good figure. Vanguard -191is a fine brown colt with ratch on face, and near fore and hind feet white, a colt of good conformation and action, the kind that many are looking for, and one sure to command fast bidding. He is by Alarm, dam Cherry Ripe -- 70-, by Jubilee (2122), grandam Mona's Queen, by Lord Derwent 2nd, great-grandam Mayflower (imp.), by High Flyer. Royal Ganymede is a fine chestnut colt of great promise, a get of Ganymede 2nd, dam Roseberry, grandam by old Valentine. Among the colts is to be noticed a brown, Sir Wilfrid, with a star and white hind fetlocks, that reminds of the champion Saxon, in style and action, a colt that will be heard from in the future. He is a son of Lady Brookfield, the dam of a number of good ones, but none of more promise than this one. Space will not permit of mention in this issue of the many high-class mares and fillies in the sale, to which reference may be made in our next. In the meantime, we advise applying for the catalogue, which tells the story of the great stud more fully than is possible in this space.

Mr. Will A. Dryden, of the firm of John Dryden & Son, Brooklin, Ont., writes: We have lately shipped two young bulls to the Northwest. One, imported last year and a very promising calf, is straight, long and wide, with good Shorthorn character, and is full of the best Cruickshank blood. He goes to Messrs. A. & G. Mutch, of Lumsden, to cross on his Cruickshank cows, and we look for splendid results from this mating. Two others are sold to go to the West later in the year. We still have four unsold, all of Cruickshank breeding, and among the best of the lot-one a Lavender, one a Clipper, and one an Eastthorpe, and all fit to go to head any herd. A few weeks ago we had a short visit from Hon. W. C. Edwards, of Rockland, who many years ago purchased some good Shorthorns from our herd, among them being the imported bull "Pioneer," bred by E. Cruickshank, and used for some time with great success in his herd. In a recent letter to the senior member of our firm he states, first in reference to the Maple Shade barn, the basement plan of which lately appeared in your valuable journal : "I had previously heard very good accounts of the new barn, and was not by any means disappointed in my expectation of it. It is a grand, good building, and I do not see how you could very much improve on it, if indeed you could improve on it at all. I think it is the best all-round building I have seen, and the plan is table for either the small or the large farmer." In writing of the cattle and sheep, he states : "As to the Shorthorns and Shropshires, you know it is a number of years since I had the pleasure of visiting 'Maple Shade' before, and from statements I had heard from time to time, I had received the impression that the grand old herd at 'Maple Shade ' had somewhat deteriorated; that the animals had declined in symmetry and general character, and that the oldtime herd of Shorthorns was not to be found there. But when I had an opportunity of looking over the animals this false impression was very quickly dispelled, for I must say, my opinion is. that the herd looks as well as it ever did, and this is saying a good deal. The young bulls are a fine lot, and very uniform. I do not think I ever saw a more uniform lot, and if the product is any evidence of a good sire, then it would appear to me that 'Maple Shade' has at present an exceptional sire in its chief stock bull, 'Prince Gloster,' and what I have said of the Shorthorns equally applies to the Shropshires. The flock seems to me to have been well maintained and in fine condition." This voluntary expression of satisfaction of the work carried on at 'Maple Shade,' and coming from so independent a source, is very much appreciated by us, and will be long remembered. Our lambs are t coming in good numbers, and thriving well. We could spare a half dozen beaua reasonable price.

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Dugald for sale shipping nd has

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### PURE-BRED JERSEY CATTLE (A. J. C. C.)

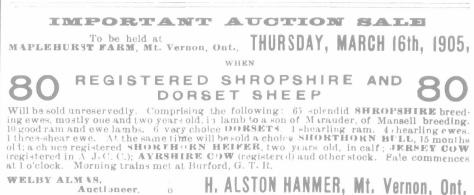
The property of WM. G. LAIDLAW, Lot 11, Con. 3, Township of Westminster, six miles south of Loadon, Ont., on

#### WEDNESDAY, MARCH 15th, 1905,

Commencing at 1 o'clock p. m.. This sale will include 17 head of pure-bred Jerseys (A.J.C.C.), that have been bred with care and are in excellent condition. Eight cows and heifers in calf; 3cows, fresh; 1 stock bull, dam imported from Island of Jersey. The remainder yearlings and calves. A number of COTSWOLD SHEEP. Also all other **FARM WICK and IM**-PLEMENTS. As the proprietor has sold his farm, everything will be sold. For catalogue As the proprietor has sold his farm, everything will be sold. For catalogue and further particulars, apply to

HUNT & McG&EG DR. Auctioneers, London, Ont.

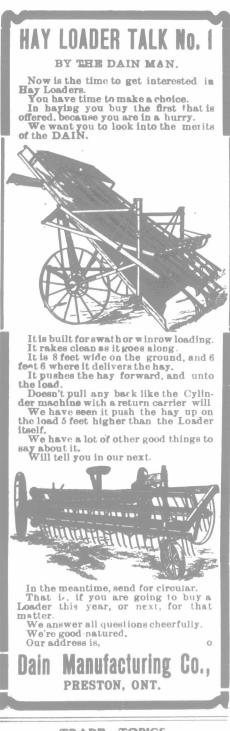
WM. G. LAIDLAW, PRP, Wilton Grove, Ont.



SPRINGHILL AYRSHIRES | CLEAR SPRING STOCK FARM BY AUCTION. HIGH-CLASS SHORTHORNS

A consignment of 11 young bulls and 5 fcmales will be sold along with the e of W. W. Ogilvie's at Rapids Farm, o March 22nd.

A specialty. Present offerings young bulls and heifers from first-class stock. Correspondence or inspection of herd invited, o Robert Hunter & Sons, Maxville, Ont. Farm one mile from Maxville Station on C. A. R. JAS. BROWN, Thorold Sta. & P. 0. Utful imported ewes, safe in lamb, and at



354

### TRADE TOPICS.

BIGG'S SHEEP DIP.-Bigg's Sheep Dip (powder), advertised in our March 2nd issue, page 292, should interest stockmen. The proprietors of Bigg's Sheep Dip are pushing the sale of their goods in all parts of the world. They are advertising in this paper for agents in Canada. The dip is supplied in powder form, done up in attractive packages. Users dilute it in water as directed. Their dips have been well and Hiawatha, whose stock has swept the favorably known in England for 70 years. Parties interested should correspond with Anyone wanting to get important brows Bigg's Sheep Dip Co., 111 Great Dover St., London, England.

### THE FARMER'S ADVOCATE.

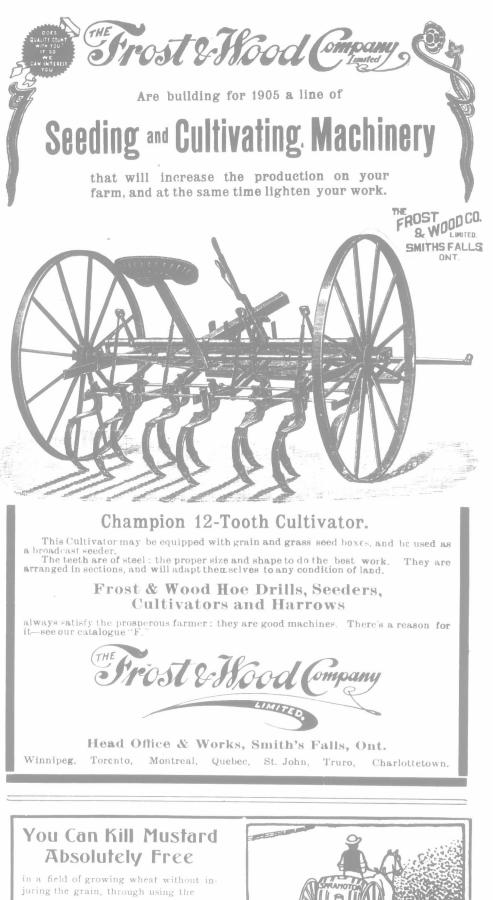
GOSSIF

A German Coach stallion is advertised for sale in this issue by Messrs. Gordon, McRoberts and McLellan, of Glencoe, Ont.

Burndennett Stock Farm Unionville. York County, Ont., about seventeen miles from Toronto, on the Midland division of the G. T. R., long known as the breeding ground of good Clydesdales, is now controlled by A. G. Gormley, formerly by his father. The stud is headed by Fullarton (imp.) (9910), a horse of splendid conformation and substance. with good feet and pasterns, beautiful dark, dappled bay, by Prince of Kyle, the horse that brought \$10,000 as a twoyear-old, dam Lily Buchanan (11695), by Go Ahead (5052), a horse that was exported back to Scotland for service. Among the mares are several imported ones of grand breeding and quality, perhaps the best of which is Imp. Beauty (4784), by Ornament, a premium horse, and champion winner in Scotland, dam Flora of Garthland (3973), by Darnley (222). This mare was a winner in Scotland over a Royal winner, and is said by many to be one of the best mares of the breed in America. She has been shown a few times, and has won several important premiums, among others first and champion at Ottawa, 1903, against She is certainly well strong odds. gotten up. Miss Todd (imp.) 4785 is another good four-year-old, by King's Cross (10070), half-brother to Baron's Pride, dam Clarinda of Hillhurst 4852, by Lord Erskine (3603), is a mare with good feet and legs well placed under her. She is also a good actor.

Lady Minto (imp.) 4772 is a very stylish filly that won first as a yearling at Ottawa. She is by Carbineer 4030, dam Lady Rothsay 4858, by Duke of Rothsay (9191).

One of Fullarton's get that is going to make a large, good quality mare is Queen of Maple Grove 6058, from Riverside Corinne 2957, by McMurchie (8014), by McGregor. She won second at Toronto last September, which practically means second against the world, and third at the winter Clydesdale and Shire Show in Toronto, in a class practically one year older than herself. Madge of Hallcroft (imp.) 4776 has never yet been beaten in the show-ring, Toronto Show included. She is by Ornament, he by Baron's Pride, his dam by McGregor, her dam, Ursula 13985, by Flashwood's Best (9211). Besides several other imported and Canadian-bred mares that are on hand, and that will be sold very reasonable, some of which are in foal to imported sires, there are some good foals in the rough, by the Unionville Syndicate horse, Hopewell (11375), whose sire was Prince Robert 7135, dam old Darling 7365, by Tom 877, a full brother to Anyone wanting to get imported brood mares in this breed will consult his own



FOUNDED 1866

SPREADING MANURE BY HORSE POWER - The manure spreader is a coming implement. We used to be content with the manure hook and fork, but then we didn't know any better. We would haul the manure to the field, dump it in piles, and then when it had got well dried and caked, we would tackle it with a four-tined fork and distribute in chunks of more or less fineness, generally less, especially if the hired man was tired. The modern way is to keep the hired man in the farmyard to fill the manure spreader, and then drive out to the field with three horses, and unload while you ride, spreading the manual at the same time much better than can possibly be done by hand. The Willinson Plew Co., Ltd., of

#### California Excursions.

The Chicago, 1 western Line to President front class Pullman and Treast beging points in Californ. ducted excursions to in Thieres week; lowest rates. balce of 'nest scenery. Spec 1 attended family parties. For maps allow for the standard General Agent, 2 East King S

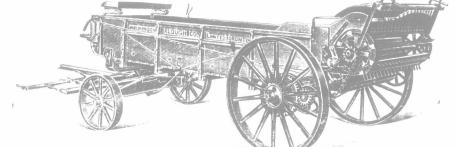
interest by writing to Mr. Gormley, or calling at his stables to see what he has.

### Settlers' Low Rates West.

Via the Chicago and Northwestern Railway every day from March 1st to May 15th, 1905. Settlers one-way, secondclass tickets at very low rates from Chicago to points in Utah, Montana, Nevada, Idaho, Oregon, Washington. California, also to Victoria, Vancouver. New Westminster, Rossland and other points in the Kootenay district. Correspondingly low rates from all points in Canada. Write for full particulars and folders to B. H. Bennett, General Agent, 2 East King St., Toronto, Ont.

A CHANCE FOR THE SMALL POLL Torento manufactor of eachang to do TRY-RAISER.-George H. Stahl, of it with Writ to toplars of the Quincy, Ill, the old-time incubator manu-Great Western I also Vision Manure facturer, has sold hundreds of his famous Spreader. Do it new ing good money with them. Of correspondences but with a hatcher like the Wooden He price, \$12.80, is within the reach of are tone better Mr. Stahl issues a very





### Great Western Apron Manure Spreader

Has taken the lead everywhere. It is the most convenient and practical machine ever made. The ENDLESS APRON saves time and work. The wide tires and the fact that the wheels track make easy draft. Turns in its own length. Everything is ground line; no bunches can possibly pass over. Write us for catalogue and handsome hanger -FREE. 0

### The Wilkinson Plough Company, Ltd. TORONTO, CANADA.

MARCH 9, 1905

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& WOOD CO.

MITHS FALLS

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### THE FARMER'S ADVOCATE.

A Smart Boy WITH A MASSEY-HARRIS MANURE SPREADER at work in your fields will give you a handsome balance in crop results at harvest. It will also double your land value. The Massey-Harris Manure Spreader doubles the value of your fertilizer to the soil. It gives

best possible results in manure-spreading, as it is systematic and a great labor-saver. A smart boy will do more work and do it better than two men with the old-fashioned uneven method of hand distribution. It will pay you to inspect the merits of the Massey-Harris Manure Spreader.

**Doubles your CROPS.** 

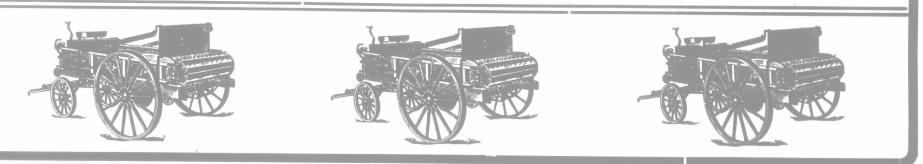
Doubles your PROFITS.

Doubles your LAND VALUE.

MASSEY-HARRIS C TORONTO

BRANTFORD

WOODSTOCK



# **First Biennial Auction Sale**

of the produce of THE FAMOUS OGILVIE HERD OF AYRSHIRES, to take place at Rapids Farm, near Montreal,

### DND, 1905

355





WHEN WILL BE SOLD

# **48 High-Class Young Ayrshires**

including absolutely all the two-year-old and yearling heifers, numbering 26 head, and 17 young bulls, comprising 1 two-year-old and 8 yearlings fit for service, and 8 calves from 7 to 8 months old.

These young animals have already made a name for themselves, having won, last fall, 12 first prizes, 9 seconds, 8 thirds and two fourths, at the Dominion Exhibition at Winnipeg, and at Toronto, London and Ottawa.

There will, in addition, be offered 11 Grand Young Cows (imported and home-bred), from 3 to 6 years old, including the Champion Ayrshire Cow at Dominion Exhibition at Winnipeg, imported Carsegowan March Bell. All the animals offered, except those that are imported, are by the three well-known Champion Stock Bulls Douglasdale (Imp.), Black Prince (Imp.) and Lessnessock Royal Warrant (Imp.)

SALE TO COMMENCE AT 1 P.M.

Mr. Ogilvie is very anxious to make these sales a success, and none but first-class animals will be offered.

For further information and Catalogues apply to

Walter M. Kearns,

Auctioneer, Montreal.

One mile from electric cars. Take Ontario and Wellington Line to Verdun. Cars will be met on day of sale, LONG DISTANCE TELEPHONE MAIN 2228.

Lachine Rapids, Que.

Robert Hunter, Manager,



356



In the olden days of whitewashed chapels, a minister went into the Little Bethel and found the workmen, with their caps on their heads, working their whitewashing brushes up and down the wal to the tune of " Pop Goes the Weasel." He was shocked. He said : "Take your caps off, and, if you must sing, sing hymns." The next day but one he found the brushes moving very slowly on the wall to the tune of "Before Jehovah's Awful Throne," and he saw that very little work had been done; so he said to the workmen : "Put on your caps and get back to the old tune, or we shan't have the place ready for Sunday." No doubt the whole incident passed without any sense of humor between them.

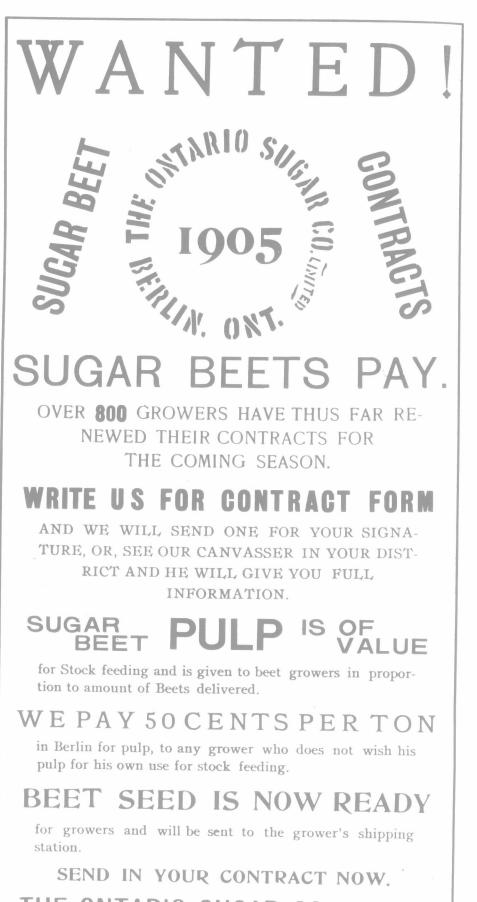
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### THE FARMER'S ADVOCATE.

**GOSSIP** 

Mr. L. E. Morgan, of Milliken P. O., in York County, Ont., a G.T.R. station 16 miles from Toronto, is a very enthusiastic breeder of Berkshire swine, and that he has acted wisely in selecting a foundation is without a doubt, having headed his herd with superior imported stock. The grandly-bred imported boar, Royal Kingston, heads the herd. He was sired by Orme (7119), in B.B.H.B., said to be the sire of many winners at the best shows in England, and is a son of the famous English champion, Highclere Topper, sold for \$600 to Mr. Vanderbilt. of New York. Royal Kingston's dam is Kingston Myrtle (8929), a daughter of the champion English boar, Grand Duke (7653). The blood of such famous sires as Jubilee Star, Dr. Jameson, and Grant of Orne, one of the largest boars in England, is included in his pedigree.

Among the sows we noticed a choice Canadian-bred one. Matchless, sired by Big Ben 10500, winner of first at Toronto in 1902; grandam Eclipse's Matchless, the champion of England and America, winning 22 first and champion prizes in one season. She is a sow of good length and quality, and is bred to Polegate Doctor (imp.), a winner at some of the best shows in England, now at the head of Geo. Thompson & Son's herd at Woodstock. Oakdale Sally is another choice young imported sow, bred by Lord Portman, of England. Her sire was the famous First Rank F., sire of many winners. This young sow is a pure Sallie on her dam's side, one of the choicest families in Berkshire history. Oakdale Ruby, imported in dam, was bred by the Duchess of Devonshire, and sired by Polegate Dragoon (9811), one of the leading boars in the herd. Her dam is Kingston Pansy (8933), of the Ruby strain, one of the most popular strains in England. Another one, imported from the same herd, is Oakdale Dawn, by same sire as above, dam Polegate Dawn. This beautiful young sow is a pure Compton on her dam's side. Imp. Oakdale Desire was sired by the noted Cecil Augustus 7756, her dam being one of the Compton strain. This young sow was a prizewinner in England, has produced a nice litter of pigs, and is bred again to the English champion and silver medal boar, Stratton King Clere. There are a few other imported-in-dam pigs, of both sexes, on hand, of the Duchess of Devonshire's breeding, that are expected to make good This new herd has been founded ones. upon the most fashionable strains, and we bespeak for Mr. Morgan a fair share of the patronage of our readers. Write him for description and prices.



FOUNDED 1866

### QUESTIONS AND ANSWERS. Miscellaneous.

### CONDITION POWDERS.

Would you please give me, through the columns of the "Farmer's Advocate," a good recipe for condition powder, for horses-something to purify the blood and increase the appetite? I. S.

Ans .- The following tonic is recommended : Two ounces each of ferric sulphate, pulverized gentian, pulverized nux vomica, and nitrate of soda. Mix these, and give a teaspoonful night and morning in ground oats or bran. Also give two or three times a week a feed of boiled outs, and to the regular grain food add a little oil cake, which aids digestion. Give plenty of exercise.

### Veterinary.

FARING FOR BONE SPAVIN.

1 Would firing or blistering for bone and have an injurious effect upon a

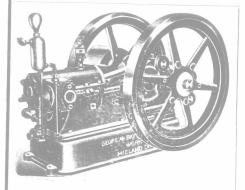
2 Would a lake operation injure a suck-W. K. H.

Aus 1. The effect might be injurious. All operators should, if possible, be

An operator's should, a possible, be avoided in possible and mares. 2 The only 2 diger is the liability of the feal setting some of the blister on blinself while indefing against the mare, but this would not be serious. V.

### THE ONTARIO SUGAR CO., LIMITED. BERLIN, ONT.

### IN SAVING HORSE FLESH



### You are saving money. The "Midland" **Gasoline Engine**

saves the drudgery connected with the horse-power. You don't have to stand outside and freeze, and it costs less to feed a horse which is not working than it does one which is tugging on the sweeps. Then you don't have to dig the blamed thing out of the snow. Our 6-horse-power engine is meeting with approval among progressive farmers. Are you progressive?

### Georgian Bay Engineering Works MIDLAND, ONT.

ADVERTISE IN THE ADVOCATE

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MARCH 9, 1905

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Send for our Price List of cash

for your Furs. Also our letter as to values. You miss an oppor-

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**REVILLON BROS**, Ltd.

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The Only

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Why buy a separator filled with bottomless cake

pans, punched and bent sections of stove pipe, or

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The only modern bowl has no contrap-

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and easily handled as any woman could wish. The

Write for catalog K-193

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MONTREAL.

### THE FARMER'S ADVOCATE

### GOSSIE.

Mrs. Burdett, the wife of the American humorist, says that, while touring in the Scottish Highlands one summer, she was taken to a cave in which Macbeth was said to have been born. She listened to the excellent speech of her guide. At the end she said to the man, "Come, now, tell me truly, is this really the place where Macbeth was born?" The little guide smiled awkwardly. He shifted about a little. "Weel," he said, "it's one of the places."

Bishop Thorold, at a dinner party, told the following story on his return from America. The chaplain of a large private asylum asked a brother clergyman to preach to the inmates on a Sunday during his absence. Before going away he said, " Preach your best, for though insane on some points, they are very intelligent." So he talked to them on India, and of heathen mothers who threw their dear little babies into the sacred river Ganges as offerings to their false gods. Tears streamed down the face of one listener, evidently deeply affected. When asked by the preacher afterward what part of the sermon touched his heart with grief, the lunatic replied : " I was thinking it was a pity your mother didn't throw you in the Ganges.".

#### HOG NOTES.

Thrift, not hunger, should prompt exercise.

Sows that have very nervous temperaments should be avoided.

Growing pigs should have a dry, warm,

bed, kept clean and free from dust. Keep the fattening hogs away from the

manure heap. Wet stalls and sheds are always filthy,

and filth breeds disease. Do not make growing pigs' slops too

rich, nor make too sudden changes in their diet. Whenever a farmer feeds a pig beyond

nine months, he is needlessly throwing away his profits.

If lean pork is desired, we must begin to cultivate the grazing hog, and the disposition to exercise must be encouraged.

The acid contents of an old swill barrel is not necessary to produce sweet and healthful pork.

Hogs can live in filth, and eat and drink filth for a while, but the chances are that they will not live so very long. Close confinement being an unnatural condition to swine, it is liable to lead to sterility.

The brood sow should receive carefully

**ONTARIO Provincial Auction Sales** 

### **PURE-BRED CATTLE** (REGISTERED)

MALES AND FEMALES OF BEEF BREEDS

Will be held by Local Management, under the auspices of the Live Stock Associations of Ontario, at the following points:

### **OTTAWA, MARCH** 10

PORT PERRY, MAR. 14 CAMPBELLCROFT, MAR. 16

### **GUELPH, MARCH 22**

All stock inspected before being accepted. Only good representatives of the various breeds will be offered. For Catologues and full particulars, apply to

A. P. WESTERVELT Secretary Live Stock Associations - Parliament Buildings, Toronto

## **Dunn's Hollow Concrete Block Machine**

Most compact, portable and easies operated machine in the market. Price so reasonable that it would pay you to buy one if only to make blocks for one fair sized building. Blocks are made out in the open air, alongside of your building, or down by yoursand pit. No firing or baking; no steam or other power required. Skille1 labor not necessary. Full di-rections furnished with machine

MAKES BLOCKS for houses, bank barns and buildings of every description. Cheaper than brick or stone and much hand-somer. Warmer in winter; cooler in summer; and indestructible.

Write for partic ulars to

The JAS. STEWART MFG. CO., Ltd., Woodstock, Ont.

### 125 Percheron, Shire and Hackney ... Stallions and Mares ...



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CLYDESDALES

Also a few choice

Percharons,

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Prices, terms and guar-antee to suit the buyer.

Hackneys

Suffolks,



by any body, and a single so-minute ap-ation usually does the work-occasional-wo required. Write for Free Horse Book reordering. It gives all the particulars, tells you what to do fer other kinds of

Fleming's

Spavin and Ringbone Paste

FLEMING BROS., Chemista, 45 Front Street, West, Toronto, Can.



on taith, but we do suggest that it is the part of wisdom to investigate our claims before buying any other. It Costs You Nothing

Advertise in the Advocate

AND GET BEST RESULTS.

to investigate, and it helps you to buy more intelligently. We only ask for a chance to show you. Send for name of nearest agent. Catalogue and dairy

booklet free. **Empire** Cream Separato Co., 28 80 Wellington St. W. st Toronto, Ontario,

selected and concentrated food, containing the full maximum of nutritiousness.

You can help growing pigs along in two ways; one by feeding the sows liberally on milk-producing foods, and by learning the pigs to eat themselves.

So far as is possible it pays to keep old sows for breeding. They may be bred twice a year and will produce litters of constantly increasing value.

To give the pigs a good start in life, the sow must be well fed, both before and after farrowing. It is not necessary that she be fat, but very essential that she keep in good flesh.

Never let hogs or any other animals shift for themselves while young, and think you can make up for such neglect at the end.

A most excellent slop can be made of four parts wheat bran and one part linseed meal mixed dry and then made into slop with sweet skim milk.

Charcoal or coarse coal and wood ashes should always be kept where the hogs can reach them. It is one of the best preventives of worms.

A hog as well as any other animal will thrive best when its surroundings are clean. A clean, dry pen is a profitable investment.

Even with fattening hogs, it is a good plan to feed a liberal ration of good slop before giving the grain at each meal. But it should be rich and not simply dish water.

March is often a boisterous month, and if sows are to farrow during this month. especial care should be taken to provide warm, dry quarters.-]Live-stock Journal.

At the World's Fair at St. Louis I won more Premier Cham-pionship awards than any other exhibitor of live stock; I won every Premier Championship offered on Hackneys, also every Gold Medal but one. At Chicago International, 1904, on 20 head I won 34 prizes

Gold Medal but one. At Chicago International, 1904, on av nead I won 34 prizes I HAVE THE GOODS and will pay intending buyers' R. R. fare here from any part of Canada, sell you a good Stallion for \$700 to \$1,000, or choice of my barns for \$1,400, delivered in your town. I will guarantee stallions. I will sell against death for two years, and to get 60% mares in foal.

Time of payments made to suit the purchaser.

LEW W. COCHRAN, 607 West Main St., Crawfordsville, Ind.

### ALEX. GALBRAITH & SON,

### JANESVILLE, WISCONSIN



Twenty-five years in the front rank of importers. Address as above. Send for new Catalogue.

### 358

# What To Do **For Heart Trouble**

I back up my advice with this Remarkable Offer :-- A Full Dollar's Worth of my Remedy Free to Prove that I am Right.

I ask no reference, no deposit, no security. There

I ask no reference, no deposit, no security. There is nothing to promise, nothing to pay—either now or later. To any heart sufferer who has not tried my remedy—Dr. shoop's Restorative—I will gladly give, free, not a mere sample, but a full dollar bottle, I am warranted in making this unusual offer because mine is no ordinary remedy. It does not vainly try to stimulate the heart. Such treatments are worse than useless. It goes straight to the cause of all heart trouble—the heart nerves—and strengthens them and vitalizes them and restores them. Then that is the end of heart diseases. For the heart isself has no more self control than a common sponge. It is made to beat by a tender nerve

common sponge. It is made to beat by a tender nerve so tiny that it is scarcely visible to the naked eye. Yet ten thousand times a day this delicate nerve must cause the heart to expand and contract.

The heart is about the size of your clenched fist. Open and close your fist a dozen times, even, and you will see the monstrous labor this little nerve must do. The heart nerve is only one of the branches of the parts symmathetic persons enterm.

will see the monstrous labor this little nerve must do. The heart nerve is only one of the branches of the great sympathetic nervous system. Each branch of this system is so closely allied with the others that weakness or irregularity at any point is apt to spread. Heart trouble frequently arises from Stomach' trouble through sympathy, and Kidney trouble may also fol-low. For each of these organs is operated by a branch of these same sympathetic nerves.—the inside nerves. The bond of sympathy between the nerves that operate the vital organs has a useful purpose as well. For what will cure weakness in one branch will surely cure weakness in every branch—what will restore one center, will surely restore them all. There is nothing new about this—nothing any physician would dispute. But it remained for Dr. Shoop to apply this knowledge—to put it to practical use. Dr. Shoop's Restorative is the result of a quarter contury of endeavor along this very line. It does not done to organ or deaden the pain—but it does go at once to the nerve—the inside nerve—the power nerve --and builds it up, and strengthens it and makes it well. If won have heart trouble and hear any tried mu

If you have heart trouble and have never tried my If you have heart trouble and have never tried my remedy, merely write and ask. I will send you an order on your druggist which he will accept as gladly as he would accept a dollar. He will hand you from his shelves a staffdard size bothe of my prescription, and he will send the bill to me. This offer is made only to strangers to my remedy. Those who have once used the Restorative do not need this evidence. There are no conditions—no requirements. It is open and frank and fair. It is the supreme test of my limitless belief. All that I ask you to do is to write— write to-day. write to-day.

| For a free order for a                             | Book 1 on Dyspepsia.  |
|--|---|
| ull dollar bottle you                              | Book 2 on the Heart.  |
| must address Dr. Shoop,                            | Book 3 on the Kidneys.  |
| Box 52, Racine, Wis.<br>State which book you want. | Book 4 for Women,<br>Book 5 for Men.<br>Book 6 on Rheumatism, |

Mild cases are often cured by a single bottle. For sale at forty thousand drug stores.



### THE FARMER'S ADVOCATE.

### COSSIP

THE SIGNIFICANCE OF SEX CHAR-ACTERISTICS.

By J. McCaig.

Apart from a knowledge of breed characteristics and differences which are valuable and necessary to the breeder of purebred stock, there is much to learn from sex characteristics and differences. An animal may be just as badly out of character with respect to sexual properties as with regard to breed properties, and this defect is no less a hindrance to successful breeding.

The practical and important thing to remember, is that there is such a thing as male and female type, and that we should study and observe to get a just appreciation of these. In this view the features that go to make up male expression must not only not be undervalued, but should be sought for and insisted upon. Heavy manes in horses, strong horns in the horned breeds of sheep, heavy crests in bulls, and all such features are in order, and their absence is a defect, as they bespeak appropriate male constitution. If the scientist were to translate such inappropriate lack of male properties into a practical breeding principle, he would say that the lack of organic capacity in such male to develop exuberant features would indicate a want of power in him to produce variation in the offspring; in other words, to STAMP HIS OFFSPRING with special character. This scarcely needs scientific interpretation to the experienced breeder, as he never fails to choose a sire of strong male individuality if he wants to transform his herd or flock.

A female may be similarly out of character as respects sex characteristics. In contrast to the male, she should be marked by a characteristic simplicity and unattractiveness, or perhaps we should say plainness. This difference has strong confirmation in the popularity of a string of exhibition males over a string of females.

This difference has its origin in what may be called natural selection rather than in sexual selection. In a state of nature there is obviously an advantage in the plainness or want of prominence of the pregnant or brooding female, if we extend the discussion to birds. There is another difference which may be referred to the same principle. Besides being more attractive, males are usually stronger and more active than females, which is due to the offices of defence and nourishment devolving on the males. This is no longer a consideration with animals under domestication. It is still the case,

#### HORSE OWNERS! USE GOM BAULT'S

CAUSTIC BALSAM. safe, speedy and positive cure. he safest, Best BLISTER rer used. Removes all bunches ver used. Removes all bunches rom Herses. Impossible to roduce scar or blemish. Send THE EAWRENCE-WILLIAMS CO. Porento, Can.

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ELIXIR. and cures Spevine, Ring Bone. Cockle Jeints, b, Grease Heel, Founder, Sore Becks and b, Braines, Wirs Cuts, Cellar and Saddle Calla a) Distempor, Chafed Places, etc. Used and A dams Express Co., Chicago Fire Department Tutte's American Worm Powders never fail the Express Co. ind others. Tuttle's Family Elizie stops the pains and aches of mankin instantly. Our 100-page book, "Veterinary Experience" free Tuttle's Elixir Co., 66 Beverly St., Boston, Mass. Beware of all other Elixirs, Avoid all blisters; they a Tuttle's is the only

LYMAN, KNOX & 50N, AGENTS, Montreal and Toronto, Canada,

THE OXFORD

Cream

COLUMN I



Separator

Those are a few of the features that

OXFORD the most up-to-date machine on the market.

### WRITE FOR CATALOGUE. The DURHAM MFG. CO., Ltd.,



FOUNDED 1866

### **GOSSIP.**

Mr. L. K. Weber, Hawkesville, Waterloo Co., Ont., breeder of Shorthorn cattle, in ordering change of advertisement writes sales have been fairly good, but prices have been favoring buyers, and good for beginners wishing to increase their herds or to improve by introducing new blood.

At the annual sale last week of Berkshires from the herd at Biltmore Farms, Biltmore, N. C., 49 head sold for \$5,172, an average of \$106; highest price, \$400; lowest price, \$30.

Mr. W. H. Arkell, Teeswater, Ont., breeder of Oxford Downs, writes : " Sheep are all doing well, have at present eighteen fine lambs, as good as I ever had, and they are doing finely. 1904 was a good year for us in the sheep business. Sales and prices were good, and we have always found the 'Farmer's Advocate' a good medium for advertis-ing stock."

Vol. 22 of the English Hackney Studbook has been received at this office, through the courtesy of the editor, Mr. Frank F. Euren, 12 Hanover Square, London, W. The volume is handsomely bound, finely printed and illustrated, and contains 469 pages, the pedigrees of stallions numbering from 8713 to 9076, and mares numbering from 16388 to 17074, besides a list of members, transfers, prizewinnings, etc.

Messrs. J. Crouch & Son, of the La-Fayette Stock Farm, of LaFayette, Ind., have sold from their branch stables at London, Ont., one of their fine imported German Coach stallions to Fred A. Jennings, of Thedford, Ont. This is a horse that farmers and parties wishing to raise good horses should patronize, and feel proud that they have him in the country, for he is a horse of great style and action. He will prove a great good to the country. If you have not seen him, it will pay you to see him.

Lew W. Cochran, of Crawfordsville, Indiana, advertises in this issue an assortment of fifty Percheron, Shire and Hackney stallions, which he will trade for farm lands or city lots in Western Canada. Mr. Cochran's horses won many good prizes at the World's Fair and International Exhibition, besides a goodly share of the awards at several State fairs. The offer to exchange horses, which are a comparatively scarce article in this country, for land, which is quite plentiful, is a novel idea, and

Messrs. H. J. Whitteker & Sons, North Williamsburg., Dundas Co., Ont., breeders of Ayrshire cattle, etc., write : "Please renew our advertisement in your paper, as we cannot get along without adverMARCH 9, 1905

### Waterrthorn ertisegood, uyers, to in-

1866

Berk arms, 5,172, \$400:

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### GOSSIP. CURED THOROUGHPIN AND IS GOOD FOR ALL BUNCHES.

Thamesford, Ont., Jan. 12th, 1905. The Lawrence-Williams Co., Cleveland, Ohio :

We have a bottle of GOMBAULT'S CAUSTIC BALSAM. We used it on a mare for thoroughpin and it disappeared entirely. We have a horse with a lump on his breast, and we would like to try the Balsam on it. We have lost the directions for using it. Would you please send us a copy of the directions? FRANK PETTIT.

Messrs. J. R. McCallum & Sons, Iona Station, Elgin Co., Ont., breeders of Shorthorn cattle, in ordering a change of advertisement, write : ..... Our herd is coming through the winter in good condition. We have had quite a number of very promising calves born lately, sired by our present stock bull, Wandering Count, by Imp. Wanderer's Last. We have several young bulls fit for service. sired by Royal Duke, son of Imp. Royal Sailor, also cows and heifers bred to Wandering Count.

Mr. Israel Groff, Alma, Ont., Lreeder of Shorthorns and Berkshires, writes "Victor's Roan Duke, our stock bull, a worthy son of Golden Drop Victor (imp.), has improved very fast since Toronto Exhibition," and his calves are very promising. I have a number of heifers and cows with calves at foot, which I would sell at reasonable prices. Following is a list of recent sales : Τo Hugh Semple, Hereward, one bull; to John Clements, of Alma, one bull; to Joseph Underwood, Lakelet, the bull calf. Royal Wenlock, sire Royal Prince (imp.), dam Olive Wenlock 2nd (imp.); to Levi Galbraith, Lakelet, roan heifer calf, sire Victor's Roan Duke, dam Roan Mary ; to Malcolm McQuern, Salem, Royal Stamford, sire Royal Hero, dam Rose of Stamford, and to Albert Goetz, the roan bull calf, Crimson Victor, sire Victor's Roan Duke, dam Crimson Flower, by Golden Robe.

'Berkshires have also been in good demand. Have sold two boars and three sows within the last few days."

The herd of Scotch and Scotch-topped Shorthorns, property of T. Douglas & Sons, Strathroy, Ontario, is steadily improving along popular lines. Their herd numbers upwards of 70 head, and is headed by Diamond, a two-year-old roan bull that won first at Toronto in 1903 in the junior yearling class. He has not been fitted since, but has developed into a thick, smooth bull of good type, and his calves are coming good. The red imported cow, Graceful 8th, is well filled out in all her parts, and is what her name indicates. She also has a fine, large red daughter to her credit, by Imp. Diamond Jubilee, of splendid quality, low and thick which is now in calf to Diamond. Hillhurst Welcome is a beautiful roan three-year-old, by Imp. Scot tish Hero, out of an imported dam, and is just due to calve to Diamond. She is large, and shows great wealth of natural flesh. Vain Blossom is another deep, thick roan that is doing well by her owners. Maple Bank Pansy 2nd is a choice cow that is nursing a nice heifer calf, by Double Gold. The yearling and two-year-old heifers are by Double Gold, the previous stock bull, a son of Imp. Golden Drop Victor. There are several young bulls on hand by Double Gold and Diamond Jubilee, from dams by Young Abbotsburn's Heir. Valkyrie and other noted sires, that are fed with an eye to future usefulness, several of which are good enough to head pure-bred herds, and will be sold very reasonable. if taken soon. Several of the principal families are here represented, upon which choice Scotch sires have been used, until a strong herd of milk and flesh producers has been established. Among the Clydesdales, besides the brood mares, is to be seen Imp. Royal Viscount, a three-year-old, bred by Mr. Cross, of Argyleshire, a nicely-topped colt, with a splendid quality of bone and good feet; also a bay filly foal, by Royal Viscount, from Maggie of Vanneck, dam by McGregor that appears to be equal to its sire in quality of bone, and promises to develop into a good one. Call and see this stock. It is only about a mile from the town of Strathroy.

### THE FARMER'S ADVOCATE.

Clydesdales



### FOR THREE SUCCESSIVE YEARS

GRAHAM BROS.

Have won the Clydesdale Stallion Championship at the International, Chicago, and similar honors at Toronto. : :

Baron Sterling, 1904 Sire Baron's Pride.



1902 Young McQueer Sire McQueen

Also a multitude of other important prizes.

We have select stallions and mares to sell, winners here and in Scotland among them. We can offer more Sons and Daughters of Baron's Pride than any other American firm. Stallions to get pure-breds. Stallions to get grades. Mares for all. Prices are low-any single breeder can afford them. Correspondence solicited. Catalogue on request.



Our fourth carload of Shire, Percheren and Hackmay stalling just arrived at our London, Ont., stables, at the Reid Hotel, and with these already on hand make the best collection of stallions to pick from in Canada, many of them being World's Fair and International winners. A responsible guarantee given with every here. We will sell a better stallion for the money than any other firm. TWENTT-SEVEN YEARS IN THE INFORTING BUSINESS. Write for full particulars and new Catalogue Q.

### QUESTIONS AND ANSWERS. Miscellaneous.

359

HOW TO MAKE A "BRANK.'-

Could you give me a description of how to make what I have heard called a Scotch brank, a kind of halter, some parts of which are made of iron, to teach cattle to lead by halter? R.

Ans .-- Can any reader answer this inquiry ?

### FARMING ON SHARES.

A works farm for B, B doing no work whatever. Writings are drawn to the effect that A is to market and sell the market produce, and divide the cash receipts equally.

1. Can B allow strangers to remove products that are of market value without first consulting A?

2. Or has B any say in the running of the farm, or the marketing of produce? A holds lease for a term of three years. A SUBSCRIBER.

Ans.-1. No. 2. He probably has not as regards the marketing, but in respect of the management of the farm, we would require to see the exact wording of the agreement in order to advise.

### MARRIED WOMAN SELLING FARM.

A married woman owns a farm and wishes to sell. She was married, and purchased the farm with her own money a number of years before the Act to facilitate the conveyance of real estate by married women was passed. Could she now, under those circumstances, give a valid title without her husband joining in the conveyance, or does that Act only apply to property acquired after the passing thereof? ENQUIRER. Ont.

Ans .- It is very probable that she can, but before definitely contracting to sell, she should submit the title to a solicitor and have him report upon her legal rights respecting the property.

### BUSHES AT BOUNDARY.

A's farm joins B's on south and east. R has kept his share of fence in good condition, and brush cut away as much as possible. A has not kept up his share of fence, and has allowed brush and trees to grow to a width of fifteen fect on his side of line, which shades B's fields, and the roots draw the fertility so that B cannot grow more than half a crop for two rods from fence.

1. Can B now compel A to make a hawful fence. (2) and cut down trees and brush so as not to damage his land? 3. How far can he compel him to cut

them from the line?

4. Does B have to give A a written notice ?

5. How long will A be allowed to have it done? These are both cultivated farms. TIM.

### Trumans' Pioneer Stud Farm BUSHNELL, ILL., U.S.A.

Address H. W. TRUMAN, Manager, London, Ont., Branch.

J. H. TRUHAN, Whittlessa, England.

# Imported Clyde, Shire and Hackney STALLIONS.



A few left on hand for sale that I wish to close out at from \$600 to \$1,000 each. These stallions are all bred from the best sires of Scotland and England. Such noted sizes as :

King of Fashion (12195), by Baron's Pride (9122). Prince of Kyle (7155).

0

Harbling Harold (15619), by Harold (4629). Gunthorpe Advance (13136), by Bar None (2388).

Write-

J. B. Hogate, Sarnia, Ont., or Lennoxville, Que.

Ans.-1 Ves 2, 3, 4 and 5. We do not think that B can compel A to cut down or remove the trees, etc., in question.

### CLOVER FOR PASTURE.

1. What is the best clover for pasture? 2. What quantity of timothy and clover would you sow per acre? 3. Would you keep a heifer's calf? 4. How long would you keep a calf with its mother ?

5. Would you feed roots to a cow when she is in calf?

Ans.-1. A mixture of red clover and alsike answers very well for pasture for a short time; but if permanent pasture is desired, then no clover will compare with lucerne or alfalfa. Care should be taken not to let it get too high before stock is turned on, and not to allow it to be eaten down very close. It should not be pastured at all the first season.

2. A very satisfactory seeding for land in good condition is made up of six pounds timothy seed, five pounds red clover, and one pound alsike per arre.

3. Certainly, if it is a good one. One of the best fat steers we ever had was a beifer's calf.

4. One or two days. It is good for both cow and calf. Some practical and successful stockmen allow the cow to ck the calf, but remove it before she

5. Roots are wholesome food for cows in any condition, if not fed in immoderate quantities.

### QUESTIONS AND ANSWERS. Miscellaneous.

360

#### FEEDING EGGSHELLS-POULTRY BREEDING QUERIES.

1. Would you advise feeding eggshells to hens? If so, should they be crushed fine or not?

2. How long after a fowl is mated before the eggs become fertile? 3. How long will eggs remain fertile

after the male is removed ? 4. Is it inbreeding to allow a male to remain with pullets of the same setting

SUBSCRIBER. of eggs? Lincoln Co., Ont.

Ans .- 1. Yes, if available. Crush them up, else the hens, by breaking large pieces, may acquire the habit of eggeating.

2 and 3. It is not definitely known exactly how long it takes for the eggs to become fertilized. A practical rule is to mate the breeding pens up five or six weeks previous to the earliest date of

hatching. "On the farm of the Ohio State University, 40 Leghorn hens, which had previously been kept without males,

were placed in pens with the male birds February 18th, and the percentage of fertile eggs observed for nine days after mating. This increased from 0, on the day of mating, to 95 per cent., on the eighth day after mating. July 1st, the males were removed from the pens. The fertility of the eggs was apparently not materially affected until the twelfth day after removing the roosters. Unfortunately the eggs were saved only fifteen days, and hence it is not shown how long hens may lay fertile eggs after removal of the male bird." The above, however, is the result of only one experiment, and final conclusions should not be drawn from it. Some authorities allow a shorter time, from four to jourteen days, as the time after mating during which fertility may be depended on. 4. Yes, if the eggs were laid by the same hen, or sired by the same cock.

#### Veterinary.

### TUMORS.

Last June two lumps appeared on my horse's breast-one on each side of the throat, just under the skin. They are as large as large hen's eggs. They are not painful. C. C. K.

Ans .--- These are fibrous tumors, and should be carefully dissected out. As they are in such close proximity to large blood vessels the operation must be skillfully performed, and I would advise you to employ a veterinarian. V.

#### CONGENITAL MALFORMATION.

When calf was born it could not suck, but drank milk out of a pail. It is over two months old and cannot suck yet. Saliva is continually flowing from its mouth, and every time we go to feed it there is one or two wads of straw in its mouth. M. M.

### WARNING NOTE FROM THE BACK.

People often say, "How are we to know when the kidneys are out of order ?" The location of the kidneys, close to the small of the back, renders the detection of kidney trouble a simple matter. The note of warning comes from the back, in the shape of backache. Don't neglect to cure it immediately. Serious kidney trouble will follow if you do. A few doses of

### DOAN'S KIDNEY PILLS.

taken in time, often save years of suffering. Mr. Horatio Till, Geary, N.B., writes :-- "I suffered for about two years with kidney disease. Had pains in my back, hips and legs; could not sleep well, and had no appetite. I took one box of Doan's Kidney Pills, and they cured me. The pains have all left, and I now sleep well.

Price 50 cents per box, or 8 for \$1.25. All dealers, or

THE DOAN KIDNEY PILL CO., Toronto, Ont.

THE REPOSI Burns & Sheppard, Proprietors,



Cor. Simcoe and Nelson Sts., TORONTO

Auction Sales of Horses, Carriages, Buggies, Harness, etc. every Tuesday and Friday at 11 s'elock.

Special Sales of Theroughbred Stock con dusted, Consignments solicited. Correspond ence will receive prompt attention. This is the best market in Canada for either

buyer or seller. Nearly two hundred herees

### BREEDING CLYDESDALES I have recently filled my stables with just the class of imported Clydesdale Stallions that will do the horse-breed-

chat will do the horse-breed-ers of this country most good. They are a grand lot to select from, and I can give the best possible terms to intending buyers. Be logi-cal, and secure a horse of the approved breed. It is a privilege to show my stock enquiries by letter. Call or

Veterinary.

### WORMS.

Six-months-old colt is not doing well. He eats well and feels well, but will not G. W. S. gain in flesh.

Ans .-- It is probable he has worms. Take four drams each sulphate of iron, sulphate of copper, tartar emetic and calomel; mix, and make into twelve powders. Give him a powder every night and morning. After the last has been taken, give him a purgative of half a pint raw linseed oil. Feed bran only for twenty-four hours after giving purgative.

#### AGALACTIA.

Mare that has bred several times, and always was a good milker, produced a foal on February 14th, but she had no milk. She was well fed and in good condition. I gave her bran and chopped oats, warm, with a tablespoonful of saltpetre, and warm water to drink. Would you advise me to breed her again? Would you advise me to breed her threeyear-old daughter, weighing 1,200 lbs. to a Clydesdale stallion weighing 1,800? W. C.

Ans.-Agalactia, or absence of milk, occasionally occurs in mares without appreciable cause, and nothing can be done for the condition, other than feeding on milk-producing food. You fed her all right, but should not have given the saltpetre. This drug had a tendency to prevent milk secretion, but I do not think it made much difference in this case. I would breed her again so that she would foal while on grass. The sire mentioned should mate well with the filly, but I would prefer one not quite so large.

#### LOCKJAW

Calf was castrated January 14th. On the 25th, its appetite failed; in a few days it bloated, became stiff in every joint and muscle. Its neck became very stiff, and if the animal was turned on its back, the head and neck would support the shoulders clear of the ground. In four or five days we killed it. An examination of the scrotum revealed some puss

1. Was it lockjaw ?

2. Would cold cause it after castration ?

- 3. Would indigestion cause it? W.E.S
- 4. Is there any cure?

1. It was lockjaw.

2. No. The disease is caused by a germ that exists in the earth or stables and gains entrance through a wound or sore. Any operation may be followed by the disease, and it often follows pricks in the foot, sore shoulders, scratches, or any sore. No blame can be attached to the operator when tetanus (lockjaw) follows an operation. The only blame in this case is your own for allowing the wounds to close too quickly. They should have been kept open to allow the puss to escape, but this neglect is not responsible for the disease.

3. No. 4. In rare cases recovery takes place Children Are Underfed

FOUNDED 1866

THE RESULT IS WEAKNESS, RIC ETS, ST. VITUS' DANCE AND MANY ILLS OF CHILDHOOD -THE CURE IS

### Dr. Chase's **Nerve Food**

"Nine-tenths of children are underfed," writes a great English scientist who made an exhaustive study of the subject.

Children require double nourishmentto enable them to grow as well as to repair the wear and tear consequent on living.

Active exercise of mind and body, together with growth and physiological changes, consume nerve force at a tremendous rate, exhaust the supply of rich blood and leave the body weak and liable to disease.

Pallor and weakness, weak eyes, nervousness, skin diseases, rickets, St. Vitus' dance and constant liability to catch cold and to contract the disease of childhood are the result.

As a means of restoring the vitality of weak, puny children there is no preparation so effective as Dr. Chase's Nerve Food.

Being mild and gentle in action and powerful as a creator of new, rich blood and nerve force, this great food cure is admirably suited to the needs of childhood, soon adds new, firm flesh and tissue to the weak and emaciated body and restores the vigor of robust childhood.

There is no means by which nourishment is so directly supplied to the blood and nerves as by the use of Dr. Chase's Nerve Food, because this preparation is composed entirely of the elements of nature which are required to build up and restore strength to the system.

Dr. Chase's Nerve Food, 50 cents a box, at all dealers, or Edmanson, Bates & Co., Toronto. The portrait and sig-nature of Dr. A. W. Chase, the famous recipe-book author, are on every box.

### **FULL-BLOOD PERCHERONS** 30



both nome-bred and import-ed. The foundation stcck is principally Brilliant blood, a son of the noted Besique, at the head of our stud at present. We have them with size and quality, clean legs and feet like iron. We are prepared to give better quality for less money than can be obtained elsewhere for less money than can be obtained elsewhere in America. If you need a horse in your lo-cality, we will assist you to form a company. Terms easy. Stock fully guaranteed. Lo-cated three miles out of town, or two miles from Ruthven, on the Pere Marquette. We pay livery if not on hand to meet you. Ad-dress:

Ans .- There is some congenital malfor mation of the mouth or tongue, or both, and it is not probable anything can be done. It may be it is what is called tongue-tied, and it is possible this might be corrected by an operation. It геquires a personal examination to diagnose the trouble, and the possibility of a successful operation.

### CONSTIPATION.

Colt was sick in October and again in January. It refused to eat, became restless, would paw, lie down, rise on its fore feet, rub hind quarters against the stall, etc. Is it indigestion, and is it liable to further attacks? W. J. T.

Ans .- This is a form of indigestion. The colt appears to be predisposed to the trouble. All horses are liable to an attack, and those who have congenital weakness of the digestive organs suffer from slight provocation. I would advise you to give him a purgative of six drams aloes and two drams ginger; follow up with a dram each of gentian. ginger and nux vomica, night and morning for two weeks. Feed regularly on moderate quantities of food of firstclass quality, and do not make any sudden changes in his food. If he is attacked again, give injections of soapy warm water per rectum, and give one ounce chloral hydrate dissolved in a pint of warm water every hour until relieved. bourne P.O., or W. W. Gordon, Glencoc. Follow this with a persentive and treat- GORDON, McROBERTS & McLELLAN, Props. ment as above.

and attend to write. T. H. HASSARD, MILLBROOK, ONT Clydesdale Stallions and Fillies.

Imported and Canadian-bred. For sale: Two Canadian-bred stallions, rising 3 years, from imp. sire and dams, Also SHORTHORN Cows and Helfers for sale. Reasonable prices, For particulars write to JAS, W. INNES,

Cityview Farm, Woodstock, Ont, 0

2 Registered Clydesdale Stallions FOR SALE. For price and particulars write to



FOR SALE: SALOMON, the celebrated imported GERMAN COACH STALLION

which can be seen at Mr. John McRob-erts' Township of Caradoc, Lot 5, Con. 2, County of Middlesex, and informa-tion regardleg the above can be had by writing either John McRoberts, Mel-bourne P.O., or W. W. Gordon, Glencoe,

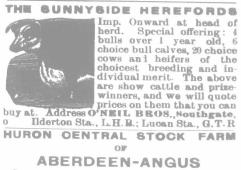
ENLARGED KNEE 1. Heavy mare started off slightly lame, but went all right in a few minutes. She was given a long drive in deep snow with crust. Next day her knee was badly swollen. I applied liniment, and reduced the swelling, with the exception of a bunch on front knee. I drove her again in about three weeks. and now her knee is badly swollen, and she is very lame. 2. How can a team be prevented from

crowding in deep snow? F. B. G. Ans .-- I am of the opinion she bruised her knee in some way, and a serous abscess has formed. If fluid is present, it must be removed, either by lancing or using an instrument called as aspirator. As the knee is a critical part to operate on, you had better employ a veterinarian. If you decide to treat yourself, give rest, bathe long and often with hot water, and apply camphorated liniment (which you can get at any drug store) after bathing. When the inflammation is allayed, rub well once daily, to reduce the bunch, with the following liniment : four drams each of resublimed iodine crystals and iodide of potassium, and four ounces each of glycerine and alcohol. It will require patience and attention.

2. There is no known means of curing a team of crowding in deep snow, when once the habit has been acquired. V.

dress: I. A. & E. J. WIGLE, V Essex County. Kingsville, Ontario.

Burndennet Stock Farm Clydesdales of the most fashionable strains, Imp. and Canadian-bred mares for sale reasonale. Also Berkshire pigs. For particular, write to o A. S. GORMLEY, Unionville Stn. and P.O.



Our present offering is seven young bulls, 8 to 18 months old. All sired by the champion oull Goderich Chief 37437. All stock registered in the American Herdbook. Also offering the young coach stallion Godolier, winner of 1st at London this year. 0 E. BUTT & SUNS, - Clinton, Ont.



Attacks stopped permanently. Cause re moved. Breathing organs and nervous system restored. Symptoms never return. No medi-cines needed atterwards. 21 years of success treating Asthma and Hay Fever. 58,000 patients. Book 57F Free. Very interesting. Write P. HAROLD HAYES, Buffalo, N.Y. o

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t blood, blood, Besique, stud at e them feet like r quality lsewhere your lo-ompany. ed. Lo-vo miles tte. We

Ans .- Either mares or stallions with

MARCH 9, 1905

ringbones, or kindred bone diseases, are very liable to produce foals with a congenital predisposition to the same diseases. Of course, all foals produced by diseased parents do not become diseased, but a large percentage does, hence the practice of breeding from such is generally condemned.

**QUESTIONS AND ANSWERS.** 

BREEDING MARE WITH RINGBONE.

Twelve-year-old mare developed a ring-

L. B. B.

bone about a year ago. Do you think

it would be safe to breed her?

Veterinary.

### AZOTURIA. ETC.

Mare stood in the stable, and was fed on hay and oats for two weeks. I hitched her, and after driving two miles she became stiff; I drove her two miles further and she was better. I let her stand in a stable for two hours and then drove her home. What can I do to prevent a further attack, and how should I treat her if she has one?

2. One of my fat cattle occasionally loses his appetite and takes diarrhoea. When I cease feeding turnips, chopped oats and barley the diarrhœa ceases

3. Skin in front of mare's hock is cracked and it exudes a yellowish fluid. J. H.

Ans .- This was an attack of a disease called azoturia, due to standing idle and being well fed, and then given exercise. It is exceptional for an animal to get better when exercise is continued after symptoms of the disease appears. Prevention consists in giving regular exer-Treatment consists in unhitching at the first symptoms, getting her into the nearest stable, giving a purgative, applying mustard over the loins, and blanketing warmly. Give two drams iodide of potassium every four hours for four or five doses, and allow her to stand idle for about three days. If she falls down and cannot rise, send at once for your veterinarian, as it will require treatment according to complications. 2. I think the diarrhœa is due to the turnips, and the loss of appetite to the diarrhœa. Some cattle cannot eat turnips with impunity. Cease feeding turnips, and it is probable that you will have no trouble.

3. This is sallanders, and is very hard to cure. Dress the wound once daily with butter of antimony applied with a feather, for four applications. Then dress three times daily with oxide of zinc ointment. Allow her to stand as quiet as possible.

### SALLANDERS, ETC.

1. Mare had hind leg injured in front of hock. It did not heal, but began to discharge a fætid matter, and proud flesh formed. She has also capped hock. 2. Heavy mare has very hairy legs They are very itchy and sore, and one broke out in front of hock.

3. Cow has a large lump on her throat ust beneath the skin Ans.-1. This is called sallanders, and, on account of the motion of the joint, is very hard to cure. Keep her as quiet as possible. Apply butter of antimony with a feather once daily until all proud flesh disappears, then apply oxide of zinc ointment three times daily. The capped hock is also hard to reduce. If there is serum present it must be lanced. If no fluid is present rub well once daily with a liniment composed of four drams each resublimed iodine crystals and iodide of potassium, and four ounces each of glycerine and alcohol. 2. Treat hock the same as No. 1. Purge with nine drams aloes and two drams ginger. Follow up with one and one-half ounces Fowler's solution of arsenic twice daily every alternate week. Dress the itchy legs twice daily with corrosive sublimate, 20 grains to a quart of water. The hair must be parted and the liquid applied to the skin, and draughts and cold excluded until the legs become dry. Horses with coarse hair and beefy legs are particularly predisposed to this condition, and it is very hard to combat. 3. This may be actinomycosis (lump iaw), or a fibrous tumor. As it has no bony connection it should be carefully dissected out, the skin stitched up, with the exception of an opening at the lowest part for the escape of pus, and the cavity flushed out three times daily with a five-per-cent. solution of carbolic acid.

### THE FARMER'S ADVOCATE. "EXPERT EVIDENCE" SCOTT'S STOCK COMPOUND DR.

Finds favor with the largest exporters and importers and undoubtedly the best judges in Canada. RELAD THEFTS:

There is no Stock Food or Blood Purifier on the market to-day that gives the universal satisfaction and does all that its proprietor claims for it as Dr. Scott's Dietetic Stock Compound. Know ing the ingredients that it is composed of, strongly advised the Dalgetty Bros., the largest importers and exporters in Canada, to give Dr. Scott's Compound a trial with their horses on board ship, and to our utmost delight the consignments have landed with their legs in natural condition, free from the swelling and stalking that we were continually troubled with, their coats and skin in glossy condition, appetite good, and, in fact, the horses were in shape to show to customers and sell right off the boat, and continued to thrive and gain flesh.

Dietetic Stock Compound strengthens the digestive organs and acts mildly on the excretory organs; in fact, tones up the whole system, enabling the animal to get

full benefit of all the nourishment contained in the food. Since using this compound our stables at home and abroad have never been without it

For debilitated and unthrifty animals we consider it has no equal as a flesh and health producer, and cheerfully recommend its use. Si

E. A. BLACKWELL, Veterinary Surgeon for Dalgetty Bros., London, Ont.; Dundee, Scotland. Put up in 25-lb. Pails at \$2.50, 9-lb. Packages for \$1.00, and 4-lb. Packages at 50e MANUFACTURED

DR. SCOTT & CO., LONDON, ONT.



### WIND-PUFFS ON HORSE.

Veterinary.

What treatment would you recommend for removing wind-puffs from a horse ?

Ans .- Bathe with ice-cold water for half an hour every morning; rub dry after bathing, and apply an iodine liniment, consisting of 1 dram of iodine crystals to 16 ozs. of water. If the horse is not lame, I would recommend leaving him alone.

### TAPEWORM IN HORSE.

What is the proper method of removing a tapeworm from a horse? A. M. Ans .- Give 2 ozs. of pumpkin seed every day for a week, after which give a ball. I would recommend pulverizing the pumpkin seed, by putting through a meat-mill or coffee-mill, or anything of the sort, if you have it convenient. The seed may be given in oat chop. V.

### INFLAMMATION OF STOMACH.

I had a valuable heifer die very suddenly. She ate breakfast, and was dead in an hour. She had been in perfect health. I examined her after death, but found nothing wrong, except on opening the stomach half of the surface had a reddish color, and was inflamed. Please let me know what you think was the cause of death.

Ans .--- I think your heifer died of inflammation of the stomach. It is rather hard to say what was the cause, but in any case I consider it most unlikely that any more would go in the same way.

### WARTS.

I have a Holstein bull; he has warts on his neck and head, and has one large bunch of warts on his shoulder. What causes warts? How may they be removed ? Do they hurt him for showing purposes ? F. H. M.

Ans .-- Warts are caused by an irritation in the skin. Sometimes rubbing against the manger might cause them; sometimes an impoverished condition of the skin. Have them cut off, either with a shears or knife, and apply some butter of antimony with a feather. I think it would come against him for showing purposes.

### BURSAL ENLARGEMENT.

Horse raised hard windpuff on hind leg. He is quite lame. M. S. Ans.-Give rest. Clip the hair off, and get the following blister, viz., one and a half drams each biniodide of mercury and cantharides, mixed with two ounces vaseline. Rub the blister well in. Tie so that he cannot bite the part. In twenty-four hours rub well again, and in twenty-four hours longer wash off and apply sweet oil. Let his head down now, and oil every day. When the scale comes off, if he is still lame repeat the blister. The lameness should disappear but it is doubtful if the puff will. V.

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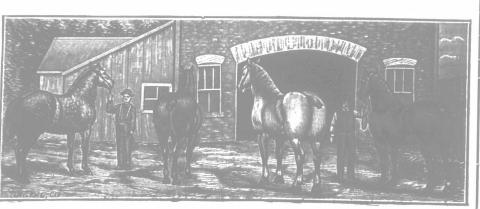
bulls, 8 ampion gistered offering

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nse re s system lo medi-SUCCES 58,000 resting.

G. T. R. Myrtle, C. P. R. Long-distance Telephone at Residence.



### 20-PERCHERONS-20

**20-FERCEREIGONS 3-20** Have just arrived with our new importation, Jan. 31st, 1905, direct from France, of 20 hyperbolic for the probability of the probability of

#### LUMP JAW.

Have a cow that has a lump on her jaw. We have been giving her iodide of potassium for three weeks, gradually increasing dose till she was getting 1 oz. three times daily. The hair on her neck is always wet. Should we continue giving iodide of potassium? D. M.

Ans .-- Your cow is suffering from actinomycosis, or lump-jaw. If the bone is affected, iodide of potassium will not remove the lump; indeed nothing will. Better destroy the animal; but if the lump is only in the soft tissues, it can be removed by a veterinary surgeon.

V

### SORES ON HEIFER'S LEGS.

I have a heifer with sores on her legs, about the size of a one-cent piece; covered with heavy scab. Please state cause and cure. S.F.R

Ans.-I think the sores are caused by insufficient bedding. The animal lies on the hard floor, or if the heifer has been well bedded, it might come from an impoverished condition of blood. The treatment is as follows : 11 lbs. sulphate of magnesia. After the dose has operated, get 3 ozs. hyposulphite of soda; divide into twelve powders, and give a powder night and morning. Keep lard or oil on the scabs to keep them soft, and wherever a scab has been removed, apply a carbolic solution, one ounce of carbolic acid to 24 of water. V.

Save the animal-save your The

herd-cure every case of Lump Jaw. The isease is fatal in time, and it spreads nly one way to cure it-use

Fleming's Lump Jaw Cure

QUESTIONS AND ANSWERS. Miscellaneous.

### COW BUYING.

1. A has a credit auction sale in De cember, 1904, and has a card attached to each cow's stall, containing the number, age and time of calving ? B buys a cow that was due to calve on January 14th. The cow at present has not any appearance of coming in before the first of April. Can A collect the full amount of B's note, B having bought this cow W. J. for a winter dairy?

Ans .- We think so. At the same time it is possible that B may be entitled to damages at A's hands for misrepresentation or breach of warranty, but the statement of facts submitted does not disclose a case sufficient in point of law to warrant legal proceedings.

#### FROSTPROOF CEMENT WALL.

Would you kindly inform me, through the columns of the "Farmer's Advocate," whether or not a cement concrete  $% \left( {{{\left( {{{{c}_{{\rm{c}}}}} \right)}}} \right)$ cellar wall, twelve inches thick, would be frostproof? W. N. M.

Ans.—That would depend upon the severity of the frost. the length of its continuance, and to some extent the wind. Frost will penetrate either stone or concrete walls one foot thick, or possibly two feet thick. To make this wall proof under very severe conditions, better stud it up and thin board closely, leaving a dead-air space.

### TREATISE ON MEDICINAL HERBS.

Will you please give me information as to where I can get a book giving a description of all medicinal herbs, plants and roots-the time for gathering and method of curing properly; also price of the book ? A. F. M.

Ans.-We do not know any work of the kind described, but a very good household medical book is "The Practical Encyclopedia of Medicine," which contains descriptions of the properties and uses of a considerable number of common medicinal plants, illustrated with colored plates. It may be obtained through this office, for \$4.75, morocco binding; cheaper binding, \$4.

SUDDEN DEATH LICE AND RINGWORM. 1. Four-year-old horse dropped dead while working at light work. He was never sick in his life. Was playing in the yard two or three hours before it. What was the cause of his death ? 2. What is the best cure for lice on

The best cure we have found for ring OLD SUBSCRIBER.

Ans.-1. Probably heart failure. A post-mortem examination would be necessary to tell.

### 2. See previous issues.

SHEEP IN ORCHARD-SPRAYING NOZZLES. 1. Will sheep or lambs bark apple

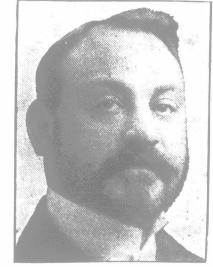
for spraying, and where can it be got? Ans.- 1. In winter or spring they cer by imp. Royal Prince 71490 and Shipping Station, C. P R. tainly will, and we have seen them bark the trees in summer also. Better keep imp. Blue Ribbon 17095 for sale at very THREE IMPORTED your eye on them, even with the rape reasonable prices. Come and see what Shorthorn Bulls there, or you may lose your trees. Four imported cows in calf, home-bred cows, heifers and young bulls, all of straight Scotch families. Four imported Shrop-hire rams, eight imported ewes and any number of Shrop-shire and Cotswold ram and ewel unbs of the highest class, is what I can show you now, and all will be priced at mod rate prices. I have. 2. Consult our advertisers of spraying DAVID BIRRELL, Maple Hall Stock Farm. outfits, any of whom have good appar-Greenwood Ont. Pickering Sta., G. T. R. Claremont, C. P. R. GREEN-CUT BONE-WHEN TO KILL PIGS FOR SUMMER PORK BARN FOUNDA-TION. **SHORTHORNS & CLYDESDALES** all will be priced at mod rate prices. **Robert Miller, Stouffville, Ont. Representative in America of Alfred Mansell & Co.,** Shrewsbury, England. Present offerings, a few young bulls, sired by Prince of Banff (Imp.), also one registered Clydesdale stallion, rising 2 years. Prices low, considering quality. DAVID HVLL. Staffa, Ont. Where can green-cut bone be got? 2. When is the best time for a farmer to kill pork for summer meat? Shorthorns 🐲 3. In building a barn, is it a good Lincolns YOUNG SHORTHORNS for sale. either plan to put foundations in a deep bank? grand Golden Drop show bull, Kinellar Stamp (Imp.), Inquiries cheerfully answered, D. V. 12 young bulls, 6 heifers, and some young cows of choice breeding. Prices very reasonable. o Ans -1. Bone meal may be purchased SOLOMON SHANIZ, Haysville P. O. from dealers in poultry supplies. In many Plum Grove Stock Farm. sections local dealers keep it in stock. W. H. TAYLOR & SON, Parkhill, Ont. Green-cut bone may be prepared by pro-SHORTHOR NS curing fresh hones from kitchen or Shorthorns. Lincolns and Berkshires Choice young bulls for sale, ready for service. o For particulars write to JOHN ELDER, Hensall Stn. & P.O., Ont hutcher shop, and grinding with one of Young stock of either sex for sale. Reason ble. For particulars apply to the numerous bone cutters designed for the purpose, and costing, according to ca-W. H. Ford, Maple Shade Farm, Dutton, Ont **MOUNTAIN VIEW SHORTHORNS** pacity, from about \$8.50 to \$12. IT MAKES MOORE BROS. 2. Almost any time after the middle of Imported and home-bred, male and female, prize and sweepstakes winners, various ages. Anything for sale. o November. l'eterinary Surgeons. of a bank are dark and damp. Three or BREED. S. J. McKNIGHT, ALBANY. NEW YORK Thornbury Station. lection, however, and, in certain sites, Scotch Shorthorns 4 bulls, 20 months old; several cows and heifers in cdf, and young heifers. At let-live prices. L. K. WEBER, Waterloo Co. 0 Hawkesville, Ont. WILLOW BANK STOCK FARM - 1855 saves considerable labor in preparing the approach. It is understood, of course, Old Established Herd. that the foundation should be laid deep Special offering of SHORTHORNS, either sex; also choice BERKSHIRE PIGS, fit for service. o JAMES DOUGLAS, Caledonia, Ont. enough to prevent danger from frost.

FOUNDED 1866



Detroit Specialist Making Men's Diseases a Specialty for Years, Will Accept Your Case, Giving It Individual Treatment. You may Use it in the Privacy of Your Own Home.

You May Pay When You are Cured. A Detroit Specialist who has 14 diplomas and certificates from medical colleges and state boards of medical examiners, and who has a vast exper-ience in doctoring diseases of men, is positive he can cure a great many so called incurable cases;



DR. S. GOLDBERG.

The possessor of 14 diplomas and certificates, who wants no money that he does not earn.

in order to convince patients that he has the abil ity to do as he says, Dr. Goldberg will accept your case for treatment, and you need not pay one penny until a complete cure has been made; he wants to hear from patients who have been unable to get cured, as he guarantees a positive cure for all chronic, nervous, blood and skin diseases. which he accepts for treatment. He not only cures the condition itself, but likewise all the complica-

which he accepts for treatment. He not only cures the condition itself, but likewise all the complica-tions, such as rheumatism, bladder or kidney troubles, blood poison, physical and nervous debility, lack of vitality, stomach trouble, etc. The doctor realizes that it is one thing to make claims and another thing to back them up; so he has made it a rule not to ask for money unless he cures you, and when you are cured, he feels sure that you will willingly pay him a small fee. It seems, therefore, that it is to the best interests of gveryone who suffers to write the doctor confi-dentially and lay your case before him, which will receive careful attention, and a correct diagnosis of your case will be made free of charge: if you have lost faith write him, as you have everything to gain and nothing to lose; you must remember not one penny need be paid until you are cured. All medicines for patients are prepared in his own laboratory to meet the requirements of each individual case. He will send a booklet on the subject, which contains the 14 diplomas and cer-tificates, entirely free. Address him simply Dr. S. Goldberg, 208 Woodward Ave , Room 135 Detroit, Michigan. Medicines for Canadian pa-tients sent from Windsor, Ont., consequently there is no duty to be paid.

## YOUNG BULLS AND HEIFERS

o Baden Sta.

Epping P.O.

#### GOSSIP.

362

Messrs. J. Watt & Son. Salem. Ont. write : "We have recently sold the following Shorthorns : To Mr. Meyers, Brodhagen, Ont., a very good bull, out of an imported Merry Maid heifer, and by imported Bapton Chancellor; to Mr. Coutts, Egerton, Ont., a nice, straight, short-legged, blocky calf, one that is sure to make a good breeder. We have still on hand a very fine imported bull, a grandson of Golden Fame, and out of a Miss Ramsden dam. Nearly all our cows have calved this season to imported Royal Archer, a Bessie, and bred by Wm. Anderson, Kintore, Aberdeenshire, and Royal Star, a Strathallan. As we are crowded for room, we will sell a number of females very reasonable. We have still a few nice Berkshires on hand."

Mr. H. K. Fairbairn, Thedford, Ont. writes : "The red and roan Shorthorn bulls we are offering at the Provincial auction sale, at Guelph, on March 22nd. are grand individuals. Their dams are mentioned in the 'Farmer's Advocate ' of February 23rd, page 286. The red is by Royal Prince, dam Myrtle, grandsire Indian Chief (imp.). The roan is out of Juliet, the dairy-test winner. He is a grand feeder and handler; girths six feet and not a year old yet. A mate to him, and we think his rival, the same color, and may be a better bull, two days younger, is also for sale. Parties attending the Guelph sale should make it a point to see these cattle. We are also offering a four-year-old cow, dam of the last named calf, due to calve March 27th These cattle are all sired by the grand stock bull, Royal Prince =31241=

Mr. J. A. Govenlock, Forest, Ont. writes : " Any person having any intention of purchasing a good young Hereford bull or female will do well to attend the Provincial sale, at Guelph, on March 22nd, of pure-bred cattle, as we are offering our prizewinning bull, For st Pride, that captured first prize at Toronto. London and six other leading fairs in Canada during this past fall against lots of opposition, winning sweepstakes as the best bull any age or breed at Sarnia. This will be a rare chance to get a proper good bull to head a herd. Mr. Govenlock is also offering two very handsome heifers, two years old, one bred to this noted bull, and the other to his herd bull, Imperial. Imperial has also won a wide reputation as a prizewinner at eight different fairs, sweeping everything in his class as a yearling bull. This is the kind of stock kept at Forest View Farm.'

The Compton Place herd of Berkshire pigs, claiming the preface "Polegate," the property of her Grace the Duchess of Devonshire, Eastbourne, Sussex, Engadvertised in this paper, was land. started in 1903. by purchasing all the best in the Compton Valence herd, a name well known to old-established Canadian breeders, and from which have been produced such champions as Tinker Warwick, Honeymoon, Highelere, Eclipse, Royal Star, Her Majesty, and many others. The "Sallie" and "Ruby strains have also a place in the herd. From the outset, size, purity and constitutional vigor have been the chief points aimed at, and with success specimens having withstood twelve con secutive weeks' showing under carvas in the ever-changing English climate, and the journey across the Atlantic, manwhile producing litters, and still being in the condition to win against Canada's best. Showing in 1903 resulted in the winning of 73 awards, being more than the combined winnings of any other two herds. The champion cup against all breeds of either sex was won with "Pole gate Daily Bread," and the champion cup for the best sow against all breeds with "Polegate Delightful Lady." In 1904 the winnings total up to 102 awards, again being more than the com bined winnings of any two herds; the challenge cup, champion cup, and champion plate being won in the carcass competition against all breeds at the Smithfield (London) Fat-stock Show. Specimens have recently been exported to Germany, New Zealand, and Canada, and enquiries are at present on hand Denne Victoria, Melbourne, United States, whilst many have been parts of England. See the ante for particulars,



Champion 81984). Also a few promising home-bred bulls. sired by Bapton Chancel lor, and a number of imported and Canadian-bred females at moderate prices.

Woodstock, Ont. H. J. DAVIS,

### SPECIAL OFFERING OF SHORTHORNS and SHROPSHIRES

(Imp.) Scotland's Pride = 36098 =, 5 years old Cruickshank Clipper, by the great sire, Star

a Cruicksnank Chipper, by the great sire, Star of Morning. (Imp.) Scottish Pride = 36106=, 4 years old, a grand sire, of the Marr Roan Lady family. 2 bulls, 2 years old, and 7 from 9 to 15 months. 20 imported and home-bred cows and heifers. All of the most approved Scotch breeding. 30 Shrop-hire ewes, one and two years old. 25 ram lamba

25 ram lambs. NO reasonable offer refused. For catalogue or further particulars write

### W. G. PETTIT & SONS,



Present offering includes our herd bull. Imp Greengill Victor, a Princess Royal, bred by W. S. Marr. He is a grand individual and an extra sire, and 13 bulls his get, from 6 to 18 orange Blossom, Augusta, Mysie, Jilk, Claret and Missie. Also 40 cows and heifers, all of noted Scotch breeding, with calf at foot or bred to hard bull bred to herd bull.

R. MITCHELL & SONS, Nelson P O., Ont.; Burington Junction Sta

FLETCHER SHORTHORNS Our herd of breeding cows, both imported and home-bred, are of the most fashionable trees ten years old, when there is rape Sooth families. Among the really good sires which have been used are Spicy Robin 28259, winner of 3rd prize at Dominion Exhibition. Toronto, and Joy of Morning (imp.) 32070, win-ning 1st prize at same exhibition, 1904. Stock of either sires for sale. GEORGE D. FLETCHER, Binkham P. O., Ont. Erin Shipping Station, O. P. R. for them to eat in the orchard? 2. What is the best kind of nozzle made



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; BULLS ND FERS

### MARCH 9, 1905

### OUESTIONS AND ANSWERS. Miscellaneous.

### SCHOOL TRUSTEE RESIGNING.

Can a trustee who was legally appointed at the annual meeting in January, 1905, resign, who claims that they are not doing business under the School Act, and that he cannot work with the other two trustees ? W. H. W.

Ans .- Yes; by giving notice in writing of such resignation to each of his colleagues in office.

### COMPULSORY CUTTING OF WEEDS.

Can the council pass a by-law to compel the farmers to cut their own weeds around their own farms along the road ? Or should the Government pass that bylaw? H. A.

Ans .- Under the Consolidated Municipal Act, 1903, the council may pass by-laws for preventing the growth of Canada thistles and other weeds detrimental to husbandry, and for compelling the destruction thereof. But the Revised Statute of Ontario, 1897, chapter 279, contains very comprehensive provisions for the destruction, by owners and occupants, of weeds growing on their lands, and by overseers as to weeds growing on highways and road allowances.

### SHIFTING LINE FENCE.

1. A and B buy farms side by side. Of course there is a line fence between them. It was there before they bought. B has moved his part at the one end on A several feet. Can A make B move it back? How would A go about it? Could A move it back without saying anything to B?

2. A and B were driving on the road. A had a buggy and a man in with him. B had a heavy wagon. A went to turn, but never stopped his horse. B was going straight on. B's wagon caught A's buggy and upset it ; threw the two men out, and broke the buggy. Could A make B pay damages, and how would he proceed ? SUBSCRIBER.

Ans.-1. If really in upon A's land as stated, he could himself move it back to the boundary line; but he ought first to make sure that it is so improperly on his land and then request B to attend to its removal, and only do it himself in the event of B's refusal or neglect. 2. It does not appear from your statement that the case amounts to more than one of mere accident, and we do not see that B is legally liable.

### AN UNRELIABLE TANNER.

About the 23rd of November last I sent an unusually fine sheepskin to a tanner fourteen miles distant to be tanned and colored. He agreed to have it done in two weeks. At the end of that time I went and paid him \$1, but it was not done. He promised to do it and leave it on the 21st of December within five miles of my house. He did not do so. On New Year's Day he past and told my nephew to tell me that it was done, but he had forgotten to bring it. I then drove for it again, and he said it was not finished, being still not colored. The second time I went I decided to take it home uncolored. He then offered me a very inferior one to my own, which I refused to take, but offered to settle the matter for two dollars. He would not do so. About a week after, he wrote me saying that another man claimed the skin he offered me, but that he had one he would send me. I answered that I would consider the matter ended if he sent me mine, or one that I thought equally as good, and if he could not I would accept three dollars in settlement. He then wrote me a very insulting letter, in which he offered me back the dollar I gave him and 85c., which he claimed was the market value of a first-class skin, or otherwise he would have a skin at his shop for me inside of ten days. Must I accept either of his offers, or can I successfully sue for what I think is reasonable value for my sheepskin, and also for the time and trouble of driving so much for nothing ? SUBSCRIBER. Ans .- You are not obliged to accept either offer, and it is open to you to sue him for the value of your sheepskin, tanned and colored, but not for trouble or loss of time. The matter, however, although no doubt very annoying, is so small that it would not pay you to go to court with it, and we would advise you to compromise.

# THE FARMER'S ADVOCATE.

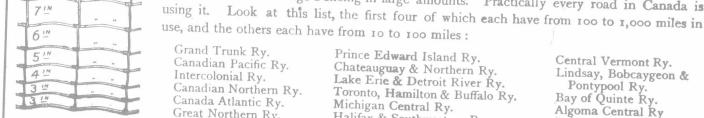
# Why do "Page Fences Wear Best"?

BECAUSE-They are made of wire 50% stronger than Common Spring Steel Wire, so called.

BECAUSE-The horizontal wires are COILED. Mind you, COILED, not CRIMPED. A COIL gives several times the elasticity that does a crimp. This COIL is what enables Page Fences to do with posts long distances apart.

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deliver an 8-wire, HIGH CARBON FENCE, to any station east of Manitoba, and wherever 81 we have a dealer, an experienced man with the proper tools will assist in putting the fence Nº.12 on the posts, if the order is of fair size, for not to exceed 41 cents per rod. All of our 8'" VE other styles in proportion, some for less money and some more. -7 !" heavy (all No. 9 gauge.) 7 11 7 !"



Grand Trunk Ry. Canadian Pacific Ry. Intercolonial Ry. Canadian Northern Ry. Canada Atlantic Ry. Great Northern Ry. Quebec Southern Ry.

Prince Edward Island Ry. Chateauguay & Northern Ry. Lake Erie & Detroit River Ry. Toronto, Hamilton & Buffalo Ry. Michigan Central Ry. Halifax & Southwestern Ry. Cape Breton Ry.

Our prices are very low, as you can judge for yourself when we tell you that we can

We have all kinds, some close mesh (19 bar, 57 inch), some light (5 bar, 36 inch), some

The railroads use Page Fencing in large amounts. Practically every road in Canada is

Central Vermont Ry. Lindsay, Bobcaygeon & Pontypool Ry. Bay of Quinte Ry. Algoma Central Ry Baie des Chaleurs Ry.

Now, you know railroad corporations do not buy large amounts of goods, and keep on buying the same kind year after year unless they prove by use to be good value. Railroad men now acknowledge that PAGE FENCE is the best and cheapest.

NOTE.—All Page Fences are now painted WHITE—our special distinguishing mark. Get the WHITE brand and you will have our make of fence.

Also Page Gates, from \$1.75 up. Ornamental Lawn Fence, from 20c. per running foot. Also Poultry Netting.



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Send for our Handsome Booklet Illustrated in Colors. Free.

### THE VERMONT FARM MACHINE CO. BELLOWS FALLS, VT.

Transfer Points : Sherbrooke, Que., Montreal, Que., Hamilton, Ont., for the East. San Francisco for British Columbia and Minneapolis for Manitoba and N.W.T.



Herd headed by Bapton Chancellor (Imp.) 40359, 78286. Present offerings: Young stock of either sex, from choice Scotch families. Prices reasonable. For further particulars,

KYLE BROS., Ayr, Ont. Paris, G. T. R. Ayr, C. P. R.

### Wm.Grainger & Son Hawthorne Herd of Deep-milking

Shorthorns. Aberdeen Hero (imp.) at head of herd. Present offerings 6 good young bulls by Scotch sires. Come and see what we have. Londesboro Sta. & P.O. o

SCOTOH-TOPPED SHORTHORNS Nine young bulls ready for service; also sev-eral heifers by Scottish Baron 40421 (imp.), for sale reasonable. Come soon and get first choice, H. GOLDING & SONS, 0 Themesford P. 0

Thamesford P O Stations, Thamesford, C.P.R.; Ingersoll, G.T.R.

LAKEVIEW SHORTHORNS. Spicy King (imp.) at head of herd. Young bulls for sale reasonably. For prices, etc., apply to

THOS. ALLIN & BROS., OSHAWA, ONT.

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### QUESTIONS AND ANSWERS. Miscellaneous.

364

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FURS AND HUNTERS' SUPPLIES.

Give the address of a firm in Toronto and one in Montreal that deal in furs and hunters' supplies ?

YOUNG HUNTER. Ans .- Such houses should make themselves known by advertising in the " Farmer's Advocate."

FRUIT-GROWING BOOKS-THE BEST PAPER Kindly inform me where I could obtain a good text-book on the management of orchards and fruit-growing. Also what are terms of subscription to "Farmer's Advocate "? J. C. York Co., N. B.

Ans.-1. " Principles of Fruit-Growing," by L. H. Bailey, \$1.25, and "Amateur Fruit-growing," Green, 50c., may be ordered through this office. 2. The "Farmer's Advocate and Home Magazine " may be secured at \$1.50 per year, and is universally considered cheap at double the money.

SHIPPING EXPENSE FROM ENGLAND. What would be the cost of shipping a

one-year-old bull from Liverpool, England, to Toronto, Canada? F. H. Ans.-Replying to this question, an ex-

perienced importer writes : "It depends upon the value of the animal and the attention and precaution you take. If the bull in question requires good care, then I would say the cost would be about \$125. If you are willing to trust to the class of fellows that follow the ships, this will lessen the cost, and it also depends whether you bring a man from Quebec to Toronto in charge. There are many things. Ordinary care would include the following costs : Liverpool to Quebec-freight, feed and a man on ship to care for animal, say \$40; guarantine, feed and care, 60 days, \$35; freight and a man in charge to Toronto, or a man only to Montreal from Quebec, \$15; incidentals, \$10; total, \$100. As stated, there is no regular charge in bringing one animal, and it remains with the shipper to make the best arrangements he can. Figuring on 60-day quarantine, the bull could be brought from Glasgow on Donaldson ships with a bunch and landed in Toronto for \$60."

### Veterinary.

### RINGBONE.

Have a colt that has been lame on hind leg for several weeks. I noticed a slight enlargement on luxar joints, as if ringboned. What would you recommend for cure ?

Ans .- Have the colt fired for singhone by V. S., and follow by a blister of biniodide of mercury, 1 dram, to 8 drams of lard.



# **Milking Time**

is the farmer's daily harvest. Unlike the raising of crops or of beef cattle the dairy account can be balanced almost daily. This enables the dairy man to know at any time whether he is getting all that he should on his investment. If the cow's food is not assimilated or is not of the right sort to make milk the results show at once in the milk pail. With these facts in view we ask every cow keeper to make this experiment. If you have just one cow, weigh or measure the milk for ten days, then for ten days continue the same ration and add Dr. Hess Stock Food as directed; if you don't have a notable increase, sufficient to pay for the stock food many times over, your money will be refunded. Or, if you have a herd, feed Dr. Hess Stock Food to every other cow down the line as you have them stationed; otherwise give to all cows exactly the same feed, continue this system of feeding two weeks, measure or weigh the milk of those getting the stock food, and those that don't. These tests will show that a greater quantity of milk is produced from the same ration when

the same ration when



is fed. A. Holmquist, Moorhead, Minn, says: "I fed Dr. Heas Stock Food to my dairy herd of thirty cows, one feed a day for one week, and found that the flow of milk increased five gallons per day. I then gave two feeds per day and the milk increased to ten gallons per day. To further test the Stock Food I gave up feeding it and the milk decreased the ten gallons it had gained. I now feed Dr. Heas Stock Food regularly." It is not a condimental food, but a scientific stock tonic and laxative, the prescription of Dr. Hess (M.D., D.V.S.), that makes the grain and other foods digest properly, al-lowing the least possible amount of nutrition to pass off as waste, and relieves the minor stock aliments. Good alike for cattle, horses, hogs and sheep.

Dr. Hess Stock Food is sold on a written guarantee, 100 lbs. for \$7.00; 25 lb. pail \$2.00 (duty paid); smaller quantities at slight advance. Fed in small dose.

Remember, that from the 1st to the 10th of each month Dr. Hess will furnish veterinary advice and prescriptions free if you will mention this paper, state what stock you have, also what stock food you have fed, and enclose two-cents for reply. In every package of Dr. Hess Stock Food there is a little yellow card that entitles you to this free service at any time. Dr. Hess Stock Book Free if you will mention this paper, state how much stock you have and what kind of stock food you have used.

DR. HESS & CLARK, Ashland, Ohio, U. S. A.

Also manufacturers of Dr. Hess Poultry Pan-a-ce-a and Instant Louse Killer.

**Instant Louse Killer Kills Lice** 



#### SCRATCHES ON FILLY.

I have a filly has something like scratches on her legs; she also passes what looks like dead tapeworms. Drinks very little; seems rather costive; eats a lot of salt; hair rather dry; seems easily tired.

Ans.-A good ointment for scratches is composed of 1 dram of oxide of zinc to 6 drams of lard; rub once a day. For internal treatment give 2 ozs. of turpentine every day for a week, which will have to be administered in a drench; mix with a little water. At the end of the week give a ball. In my opinion the mare has not tapeworms, but just ordinary worms. V.,

#### SCRATCHES.

What would be a safe remedy for scratches, in the case of a mare with foal ? F. H.

Ans .-- As the mare is in foal avoid purgatives. Give one ounce Fowler's solution of arsenic three times daily every alternate week as long as necessary. Poultice the heels with warm linseed meal with a little powdered charcoal for two days and nights; put fresh poultice on every eight hours, and then dress three times daily, with a lotion consisting of one curve each, sulphate of zinc and acetate of lead, and two drams carbolic acid, to a just of water. Do not wash the legs at all. If they get wet, rub and then brush

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### OUESTIONS AND ANSWERS. Miscellaneous.

### HANDLING INCUBATOR.

I would like to have someone who has had success with an incubator and brooder say through your paper what kind is the best to buy, and what his experience has been, and how much time and attention has to be given to incubator. I think this would be of benefit to many who would like to get one; but there are so many incubators advertised that one does not know which is best. M. D. F. Ans.-This subject has been very fully treated in the last two issues of the "Farmer's Advocate."

#### CEMENT SILO QUERIES. .

I purpose building a silo next summer, and would like to know from you or some of your intelligent readers who have had experience, the following information: I would like to make my silo of concrete (cement, sand and gravel) which is convenient.

1. Does the ensilage freeze worse than in a wooden silo?

2. Does it, if well plastered with Portland cement, absorb the moisture from the ensilage and leave it moulded worse than wood. J. N.

Ans.-1 and 2. No.

### TO KILL LICE ON CATTLE.

What do you recommend for killing lice on cattle? J. L.

Ans .- This question has been asked and answered fifty times in these columns in the last two years. We have no settled opinion as to what is best, but would say that any of the sheep dips advertised are claimed to be effective. Any kind of grease or oil will kill them, but coal oil should only be used with twice the quantity of raw linseed oil, as if used alone it will blister. Tobacco juice is a sure thing for the purpose, and we have known common fly powder (pyrethrum) sifted into the hair from a flourdredger to prove very effective.

#### TREATMENT FOR ABORTION.

Please let me know through your valuable paper what is the best disinfectant to use for injections for abortion in cows. How many times do cows need to be injected before cured of it, and what is the best kind of syringe to use? Would the same syringe used for the cows do for the bull too Would giving the cows crude carbolic acid in the salt be as good for them as the pure carbolic acid in bran, for abortion ? E. A. Ans.-See answer to similar question in this issue.

### **RE ABORTION IN COWS.**

1. Is abortion contagious? How long after a cow aborts would it be safe to her again, without danger of spreading the disease?

### THE FARMER'S ADVOCATE.

# Free for a Post Card

It costs just one cont for you to get relief from Kidney and Bladder Troubles. A simple request on a post card brings a free sample box of Gin Pills. We don't ask you to buy. Simply try Gin Pills at our expense, and let them prove themselves all that we claim for them. And we know the samples will do you so much good that you will voluntarily buy Gin Pills until a complete cure is effected. We intend to give away

### 100,000 Boxes Free of Charge

in order to show our confidence in this remedy. We know what Gin Pills will do. We have implicit confidence in their power to relieve and cure all Kidney and Bladder Troubles. We know that you have only to try them to believe in them.

Gin Pills Never Fail to Cure.

All over Canada, Gin Pills are known as a certain and speedy cure for Inflammation of the Kidneys; Gout and Rheumatism, caused by uric acid in the blood; Catarrh of the Bladder; Painful and Suppressed Urination; "Burning" Urine; Gravel or Stone in the Bladder; Bed Wetting; Pains in the Back, and all other Kidney and Bladder Troubles. Each Gin Pill contains all the medicinal pro-

perties of one and a half ounces of best Holland gin, without the alcohol, and combined with other curative agents of recognized value.

Don't Delay-Write Te-day.

Don't put this off. If you have any of these troubles, don't run the risk of Bright's Disease or Chronic Cystitis. Write for a free sample of Gin Pills, and start yourself along the road to a certain cure.

Use a post card, ask for a free sample of Gin Pills, say in what paper you saw this advertisement, and sign your name and address. Write to-day-now-to

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nont, C. P. R. K FARM DANADA.

### HORNS

RES. .td., Props. nager. om SONS,

### DESDALES

bulls of No. 1 service; also Also one imp. Prices reason-one mile from om

### k Farm

OLN SHEEP.

and sweepstake, a, 3 years in suc ded by the im-ed bull, Rosy ite Hall Rams-rop of calves ince Sunbeam, S, High-class lages for sale. OED

TON. ONT. animal under breed, or re-ce a day. Mr. arm, Coleman, Barren Cow ry hard case.

risburg, Ont

2. Could a man be fined for bringing a cow shortly after aborting and not telling the owner of the bull?

SUBSCRIBER.

Ans.-1. There is a species of abortion that is contagious. This question has been fully discussed in these columns recently. See Jan. 19th issue, page 79; also Feb. 2nd, page 172. As a rule, they should not be bred again for three or four months.

2. We do not think so.

### ABORTION TREATMENT.

About three months ago one of our cows calved at seven months, calf dying few hours after birth. This week another did the same, calf also dying. Cows appear all right, and are milking well.

1. Do you think it is contagious abortion ?

2. Would you advise giving our cows which are in calf the carbolic-acid mashes? If so, how often and for how long ?

3. Where can we get fuller information regarding the abortion treatment than is contained in your issue of Jan. 19th, particularly the injecting with Nocard's solution and the coal-tar disinfectant? J. E.

Ans.-See Feb. 16th issue, page 16, and Dec. 16th, 1904, page 1767, for detailed treatment.

heiters, some first-class show stuff of the lead-ing families, including Missies, Mayflowers and Village Girls, and by such sires as Imp. Favorite (83469) E. H. B., Imp. Nonpareil Arch-er and Marquis of Zenda. No fancy prices. Satisfaction guaranteed. Visitors met by ap-pointment and always welcome. o K. C. & E. C. ATTRILL, Goderich, Ont.

Belvoir Stock Farm. Stock Farms, stock sto

Societies Show. **YOKKSHIRES**—Sows and boars, various ages; not akin. Three imp. boars and 5 imp. sows to select from, and their progeny. Prices right. Also honorable dealing. o **RICHARD GIBSON, Delaware, Ont**.

### Three Scotch-topped Shorthorn Bulls

FOR SALE. Two got by Prince Gloster =40998=, and one by Collynie Archer (imp.) =28860=. The names of such bulls as Royal Barmpton (imp.) =217=, Stanley (imp.) =241=, Prince of the Realm (imp.) =2730=, Earl of March =17252= and Revenue =21053 = appear in the pedigrees. Good individuals; must be sold. Inspection solicited. Visitors welcome. Stations: Myrtle, C. P. R.; Brooklin, G. T. R. o WM. D. DYER, Columbus, Ont.

First-class Shorthorns—Young cows and breeding. Also Shropshires of different ages. Write for prices, etc., to T. J. T. COLE, Bowmanville Stn., G. T. R. o Tyrone P. O

1864 - HILLHURST FARM - 1905 Scotch and Scotch-topped F. S.WETHERALL, Cookshire, Que. Rushton Farm. SHORTHORNS Broad Scotch =46315= (Sittyton But-Broka Scotch = 40315 = (51ty ton But-terfly) at head of herd. FOR SALE: Young bulls by Lord Mounts' ophen, Joy of Morning and Scottish Beau, 12 to 18 months old, Prices moderate. o 140 - JERSEYS - 140 to choose from. 74 First Prizes, 1904. We have what you want, male or female. B. H. BULL & SON, Brampton, Ont. JAS. A. COCHRANE, Hillhurst Station. Compton Co., P. Q. Woodbine Holsteins

### SHORTHORNS and CLYDESDALES

Spicy Count (Imp.), 5 thick, fleshy bulls, 12 months old; a few heifers and 6 splendid Clydesdales; 3 mares regis-tered. All young. 0

### JAS. MCARTHUR Pine Grove Stock Farm. GOBLE'S, QNT.

ELMHEDGE SOOTCH SHOFTHOENS. Stamfords, Minas, Nonpareils, Crimson Flow-ers, Marr Floras and Lavinias. Our herd will stand comparison with any. We reserve noth-ing: 45 head of both sexes, all ages, for sale. o James Bowes, Strathnairn P.O., Meaford Sta.

High-class Shorthorns — We have now for sale prizewinner, and one yearling; also a number of young cows and heifers. BROWN BROS., Lakeview Farm, Orono, Ont. Newcastle Sta., G. T. R. 0

Bowmanville Stn., G. T. R. o Tyrote T. O J. WATT & SON -1 imp. BULL; also a num-bred cows and heifers, in calf or with calvesat foot from (imp.) Royal Archer and Royal Star. Salem P. O., Elora station, G.T.R. & C.P.R. o

A. KENNEDY, MP: MAPLE PARK FARM HOLSTEINS.

'Phone 68.

Herd headed by Sir Mechthilde Posch, whose four

nearest ab cestors average 25 lbs, of butter in 7 days in official tests. Cows, heifers and young bulls, aired by Homestead Albino Paul DeKol, a grandson of DeKol 2nd Paul DeKol, sire of 41 A. R. O. (augh-ters, the greatest sire of the breed. Write for ex-tended pedigrees and prices

tended pedigrees and prices.

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Two choice bull calves for sale, sire Hom-stead Albino Paul De Kol. Also two 1-year-old heifers with 70-lb, dams. S. MAOKLIN, Prop., Streetsville, Ont.

Hilton Stock Farm Holsteins, Cotswolds Present offering: One young bull. A few young boars. One good one fit for service. At very reasonable prices if taken soon. For particulars write to R.O.Morrow, Hilton P.O., Brighton Tel. & Stn.

### **QUESTIONS AND ANSWERS.** Miscellaneous.

#### DOG AND SLEIGH.

366

If a man has a dog broken so that he can hook him to a sleigh, and driving along the highway a team becomes frightened and runs away, would that man be responsible for any damage done, or would he not be responsible ? READER.

Ans .- We do not see that he incurs any legal liability.

#### A MILK-DRAWER'S CLAIM.

A drew B's milk during the summer of 1908 for \$20. Drew it again the fcllowing summer, but no bargain made. A wants \$20 again from B. B offered \$19, and A offered to divide the difference, but B refuses to pay at all now. Can he be made to do so, and how? SUBSCRIBER.

Liquozone has cared.

size bottle to try.

germ disease.

Don't blindly take medicine for what

medicine cannot do. Drugs never kill

germs. For your own sake, ask about iquozone; then let us buy you a full

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is a liquid that does what oxygen

does. It is a nerve food and blood food – the most helpful thing in

scientific and chemical research. It is Asthma

not made by compounding drugs, nor with alcohol. Its virtues are derived solely from gas—largely oxygen gas— by a process requiring immense appa-ratus and 14 days' time. The result is a liquid that days the later that the solution of the

the world to you. Its effects are ex-

For the American rights to Liquo-

Ans .- Yes, by suit in the Division Court.

TRAINING YOUNG HORSE.

I have a colt nineteen months old. Do you think it advisable to break him in at this age? He has considerable life, and we were thinking the earlier we broke him in the better, before he got too big and strong. If he is too young now, how old should he be before being broken ? H. H. K.

Ans .- While some men claim that a colt should not be broken until three or four years old, the best authorities say that his education should begin early, and be gradual, and that during the second winter of his life he should be trained to drive. Of course light exercise only should be given him at this age.

#### COLD FRAME-PRUNING TOMATOES.

1. How is a cold-frame made, and does it keep out frosts ?

2. What is the proper way to prune tomatoes?

SUBSCRIBER'S SON. Hants Co., N. S.

Ans.-1. A cold-frame is just like a frame for a hotbed, except that the earth on which it is set has no manure under. It is made any size required, about 18 inches high, and covered with glass. It can be banked up with earth to hinder cold drafts. It is not used for very early forcing, but will protect against light frosts perfectly.

2. In ordinary practice tomatoes are scarcely ever pruned. Some who, grow plants in pots to a considerable size before setting out, by pinching back, keep plants stocky and confined to one leader. Some also, after plants are set out, allow only two main branches or leaders to each plant to grow.

#### ROOTS VS. ENSILAGE.

1. Would maple lumber be all right for huilding a silo ? Would it be liable to rot?

2. How does silage compare with turnips for feeding ? Where only one of is grown which would give the most feeding value, and which crop could be handled with least expense? Which is hardest on the land?

Millions of people, of nine different hilarating, vitalizing, purifying. Yet Dyspensia and the second secon some to keep well. Some to cura germ diseases; some as a tonic. No medi-cine was ever so widely employed. S1,000 for a disease germ that it can-not kill. The reason is that germs are vegetables; and Liquozone—like Gonorrhea-Gleet These users are everywhere; your an excess of oxygen-is deadly to neighbors and friends are among them. vegetal matter. And half the people you meet-wher-ever you are-know some one whom

Now Use Liquozone. Won't You Try It-Free?

Nine Nations

There lies the great value of Liquo-zone. It is the only way known to kill germs in the body without killing If you need help, please ask some of these users what Liquozone does. germs is a poison, and it cannot be germs is a poison, and it cannot be taken internally. Every physician knows that medicine is almost helpless in any germ disease.

### Germ Diseases.

These are the known germ diseases. All that medicine can do for these zone. We did this after testing the troubles is to help nature overcome product for two years, through physithe germs, and such results are indi-rect and uncertain. Liquozone attacks cians and hospitals, after proving, in thousands of different cases, that the germs, wherever they are. And when the germs which cause a disease are destroyed, the disease must end, and forever. That is inevitable. Liquozone has, for more than 20 years, been the constant subject of

Hay Fever-Influenza Kidney Disease La Grippe Leucorthea Liver Troubles Malaria—Neuralgia Many Heart Troubles Piles—Pneumonia Pleurisy-Quinsy Rheumatism Constipation Catarrh—Cancer Dvsentery—Diarrhea Scrofula – Syphilis Skin Diseases Stomach Troubles

Throat Troubles Tuberculosis Tumors-Ulcers Varicocele Women's Diseases All diseases that begin with fever-all inflamma

All diseases that begin with rever—all inframma-tion—all catarrh—all contagious diseases—all the results of impure or poisoned blood, In nervous debility Liquozone acts as a vitalizer, accomplishing what no drugs can do.

### 50c. Bottle Free.

If you need Liquozone, and have never tried it, please send us this coupon. We will then mail you an order on a local druggist for a full-size bottle, and we will pay the druggist ourselves for it. This is our free gift, made to convince you; to show you what Liquozone is, and what it can do. In justice to yourself, please accept it to-day, for it places you under no obligation whatever.

Liquozone costs 50c. and \$1.

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### **OGILVIE'S AYRSHIRES**

Present offering in the Ogilvie herd includes two or three of the very best young bulls and heifers ever offered in this country, including the winning senior bull and heifer calves at Toronto, London and Ottawa last fall; also the winning yearling heifers, served to calve in August and September next. Also a big choice of young cows.

Abscess-Anæmia

Bright's Disease

Bowel Troubles Coughs—Colds Consumption Colic—Croup

Constipation

ROBERT HUNTER, MANAGER, LACHINE RAPIDS, QUE. Farm near Montreal, One mile from electric cars om



# Maple Grove Holsteins—In official tests they stand 1st for cow, 1st for 3-year-old. 1st 2-year old and 1st under 2 years old. If you want bulls or heifers from such stock at reasonable prices, write o H. BOLLEBT, Cassel, Ont.

TWEDINNOOK AYRSHIRES fimporied bulls from the best milking straight in Soctiand head the herd of 75 head. Wil-nings for 1908 at Toronb and Ottawa: The gold medal and s first prize herds; 38 prizes in all-18 firsts, 6 seconds, 5 thirds, 9 fourths. In the Pan-American milk test, the 9 first Ayr-shires ware from this herd. Quality, size, milk and tests is our aird. Young bulls and heifers for sale. Price and particulars, apply to com JAS, BODEN, Managar, St. Anne de Bellevue, F. Q. G. T: R. and C. P. R. stations en the farm. E miles word of Mongreal.

Breeders of Clydesdale Horses, Ayrshire Oattee, Berkshire and Tamworth Pigs. Young stock for sale at all times. B. BLID & OO.. - Hintonburg, Ont. Farm adjoins Central Experimental Farm.

FOUNDED 1866

3. How many acres of good corn would be required to fill a silo 30 feet high by 15 feet wide?

4. Will ensilage and cut straw keep cattle as healthy and strong as turnips and cut straw will?

5. In building a cement silo, will it be necessary to build iron rings in with the wall to strengthen it?

SUBSCRIBER.

Ans .-- 1. Maple lumber, being very liable to rot if it gets wet and dry, would not be suitable for silo-building. 2. Where corn can be successfully grown, much greater food value is obtained from it per acre than from turnips, and the crop can be handled with less labor. There is not much difference on the effect on the soil if corn is planted in hills or sown thinly. Thickly-sown corn leaves the ground poorer.

3. A silo of the dimensions you give, inside measurement, will hold 105 tons of ensilage, which would take about ten acres of an average crop of corn of early-maturing varieties, which should be sown in your county (Simcoe).

4 Possibly not. It is better to feed neither ensilage nor roots in that way. Both should be used if possible, with the addition of a little meal, bran and

5. Yes