

SPECIMENS OF CLYDESDALES AND SHORTHORNS, THE PROPERTY OF MR. JOHN E. SMITH, BRANDON, MANITOBA.

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Canadian Cattle Matters.

Some idea of the popularity of the Hackney horse in England may be gained from the fact that at the late London show there were two hundred and thirty-five entries of stallions, and one hundred and forty-eight of mares. Of these, fourteen stallions and twenty-five mares belonged to the pony class under 14 hands.

EDITORIAL.

Now is the time to cut the black knot from the cherry and plum trees. Directly warm weather begins the spores that propagate this fungus disease are ripening and spreading the evil. The branches cut off will burn as readily when first cut as they will after a few weeks time, and if not thus destroyed they will be just as liable to work harm as though left upon the trees. Wherever orchards are isolated there is very little trouble in keeping trees free from this scourge.

The creation of a live stock sanitary commission in the State of Texas is commented on by the Rural New Yorker in the following :---"Think of it! Actually insisting that the man to head this cattle commission must actually know something about the cattle business! In New York State such a section would be at once amended or killed entirely, because it might spoil the chance of putting some practical politician in a new place. In New York State, you know, a dairy commissioner can obtain all the dairy knewledge he needs in a lawyer's office. Why is Texas about a century ahead of New York in such a matter ?"

Breeders from all localities report an active demand for pure-bred cattle; especially is this the case for young bulls. Whenever the prices of grain run unusually low, farmers turn their attention towards improving their stock. When beef, pork, butter and cheese are the products that are depended upon for cash sales, there will be found well-tilled farms that are yielding profitable crops. If manure is the sheet anchor of good farming, it is in the line of special stock feeding that best occupies the idle time of the winter season on the farm, makes fertile fields, produces paying crops, fills the coffers of those who arrange their farm operations by selling the products of their fields on foot, or in butter and cheese.

The farmers of a locality that we know have formed a Game Protective Association for the purpose of keeping at bay the city pot-hunters who usually range the fields and woods every fall. The association has raised funds to put up plenty of signs warning hunters off the different farms, and, if they still persist in coming, every one will be prosecuted for trespassing. That is right. These city hunters are a nuisance in any farming district. They tramp through crops, break down walls and fences, leave gates open, to say nothing of filling pockets and bags with apples or other fruits. They have no business on a man's farm, and we wish

Pressure is continually being brought to bear by the representatives of a number of the cattle producing districts of England to at once and forever prevent further inland shipment of imported live cattle. Yet, judging by the tone of the discussions in Imperial Parliament, no permanent step is likely to be taken at present toward prohibiting Canadian stores or finished cattle from being shipped to inland points. It is true that the present restrictions are not likely to be soon removed, but at the same time there are so many British feeders, especially in Scotland, interested in this trade that there is undoubtedly a chance that the British authorities may be persuaded to release the obstructions as soon as they are assured that there is no danger of infection through our cattle.

We are perfectly satisfied that there is no shadow of a possibility that any kind of infectious disease can be lurking among the cattle of any locality in the Dominion. If such had broken out it would have been impossible to have suppressed the knowledge of its existence, and it would be contrary to reason if the news were not reported far and wide. But as yet no breath of rumor that any symptoms of such a calamitous visitation has come to light. It therefore behooves the Department at Ottawa to do two things:-First, to remove any possible chance by which infection may be introduced, either among our herds or among Canadian cattle in transit, and then to use every means to assure the British authorities that we never had and that there is no possible means by which it could be introduced into Great Britain through Canadian cattle. The latter the Department at Ottawa have endeavored to do to a certain extent, but could the Department expect to successfully plead their cause when they have been so lax in their regulations? And through this and nothing else have we nearly lost all hope of the freedom in a trade in future that we have so long enjoyed in the past. If Canadians think that the British authorities are not conversant with the regulations by which cattle are being shipped into and through Canada, they are greatly mistaken. In this particular they are kept far better posted than our people here, and it is no further use to deny that there has been a wretched laxity in our regulations, by which we have nearly lost a trade that is of the greatest importance to Canadian farmers.

Part of this has already been admitted. But what about the regulations while in transit? Canada has for years allowed Western hogs to be shipped through in bond, and once through the breaking down of a car these hogs were unloaded and hog cholera was introduced into a section of the country where it was never known before, and it took several years to stamp it out. In cattle transit more rigid measures are also required to be put in force, and much of the laxity has been caused by too great assurance of safety.

The trade has gone along for years, and although there have been occasional ripples on the surface

There is no sense in us taking chances of contagion being brought amongst us. It is quite possible for an outbreak to happen and a number of cars and boats become the very instruments for disseminating disease.

No particular care has been exercised. Cattle, through their sale and sale of their products, are now one of our largest exports—the chief means of bringing in money, considerably over \$20,000,000 of these having been shipped last year. This gives some idea of the calamity that would befall us if disease were really to break out. The Department cannot pay too much attention to this matter, which requires the most prompt action on the part of our Canadian authorities.

Against Clydesdale Interests.

At the late annual meeting of the Clydesdale Breeders' Association it was resolved that all horses of this breed foaled and reared in Canada will be considered Canadian-bred, this rule to come in force after the present year.

This motion, although passed, was strongly opposed, it being a question that has been brought up at previous meetings and always negatived by a large majority of breeders. We consider this action quite against the interests of Clydesdale breeding, and cannot see the fairness in the decision, At our leading shows, as generally known, there have been classes for imported Clydesdales and another for Canadian-bred draught horses. The latter class is supposed to admit only such horses as have been crossed up, while the offspring of imported sire and dam have shown in the class for imported animals. Now, it is the men who have brought to such perfection the horses which compose this Canadianbred class who deserve much of the credit of the advance made in Clydesdale breeding in Canada today. Without the assistance they have contributed through their patronage, there would have been no demand for imported stallions. And it is difficult to conceive that anything but a personal interest should have led the leading members to pass so discouraging a measure, which means turning loose the produce of the best imported mares obtainable to fight against a class that has been the whole support of the trade in imported horses. Again, it is these men who have made the Clydesdale Association what it is; without their annual subscriptions and annual registering fees, the finances and annual stud book would both make a very small showing. Now, the class for Canadian-bred Clydesdales with five or more crosses is of the greatest importance to the horse breeding interest of the country. It is from this class that the sales to the Northwest have been made; in fact, it is from this class our sales in the past and our hope in the future lies,

There are several buyers in Ontario constantly buying and sending away car loads to Great Britain, and the future is still hopeful, if the Canadian farmer will but breed them larger and good enough; and what we have so often urged is to rethe best mares for breeding and sell the geldings, the demand for such is very good. In late years it was the young stallions and mares sold that brought the best prices ; now the demand for stallions is passed by, and geldings are the best selling horses. And it would be suicidal not to encourage this class to the utmost. Any observing man who has taken any interest in the show of heavy horses of late years must have been wonderfully impressed with the uniform excellence of this class, and no men are more deserving of credit for the enterprise than the farmers who have yearly exhibited the splendid specimens that have been brought out, and the very fact that they (especially in the mare and filly sections) have always compared favorably with the imported animals is a proof that the prizes offered have assisted in developing this sort. Now that our draughthorses are fast becoming the admiration of those who have purchased and used them in the cities of Great Britain is another proof that they should be further encouraged. Doubtless the hope of winning a prize in this class has prevented many an owner from accepting a tempting offer that would otherwise have taken the best mares and fillies out of the country. We have no desire to prevent the encouragement of importing mares or breeding from them; these deserve all the assistance that can be accorded to them, but they have most of the younger sections to themselves, as few stallions or mares are imported and shown until three years old, and less of these will be imported, in all probability, for a few years to come. Again, we consider, with the class of stallions and mares that have been imported, it is an admission of weakness in our breeding arrangements to admit that we cannot rear horses as well as the old country breeders.

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every farm community would form an association to keep in cheque this class of marauders.

Last November the ADVOCATE urged the adoption of a system whereby all live stock exhibits should be catalogued, so that visitors could, by comparing the number on the animal or pen with the catalogue, see at a glance the animal's name, owner and breeder, age, etc., etc., without having to hunt all over the fair grounds for the "man in charge." There should be no objection raised by exhibitors, as it would advertise their stock and save them an endless amount of inconvenience. We feel satisfied that even if a small charge was made for the catalogues, that they would be highly appreciated by both visitor and exhibitor. Why do not the representatives of the various breeders' associations endeavor to have this plan carried out at the coming exhibitions?

When the electors of an agricultural constituency are about to choose a candidate, "whatever their stripe of politics may be," would it not be better to select a representative man, one who would do battle in their behalf when occasion offers, instead of, as is generally the case, the candidate dictating to the electorate how they should meet the views of his party? The fact is the would-be representatives of the present day wish to cram down the throats of the electorate what they should want instead of studying the requirements of their constituents, which is our view of the duties of a representative. Yet the other course is the usual one pursued. Then how can agriculture hope to have any say in our legislative halls if city men are to direct the bill of fare, prescribe for their wants, and pull the strings which are to lead to the assistance of agriculture?

through British inspectors giving false alarms, they have continued to pass our cattle, and Canadians have, like the boy and the wolf in the traditional fable, become so accustomed to the cry that they thought no danger was to be apprehended. However, we have at last awakened to the fact that there is a most dangerous foe lurking around, and it is now for us to find how to destroy the least vestige of its presence. Although none of our breeders and feeders have had any personal Canadian experience with these infectious diseases which have been the terror of British stockmen, they still have a pretty good idea how terribly contagious and infectious some of these are.

Many of our best breeders have had the experience before leaving their native England or Scotland, and the best opinions expressed go to show that there is always danger in buildings that have been occupied by animals that have had infectious pleuro—that such is the insidious nature of the contagion that sooner or later it will again break out, and many contend that nothing short of burning the premises where these forms of infection have existed will ever entirely keep the locality in safety.

Now if this is the case with buildings where the most careful and painstaking means have been practised to disinfect and purify them, what about ships and railway carriages where this duty is only carelessly performed at best?

The fact is in Canada we have no means of tracing how, when or where previous cargoes may have been handled by boats or railroad cars. And it would not be surprising if they could have been contaminated through some such means as these. APRIL 1, 1893

THE FARMER'S ADVOCATE.

Poland-China and Duroc-Jersey Swine.

In answer to a subscriber who made enquiries regarding the history of Poland-China and Duroc-Jersey swine, we will say that articles on these subjecs have been prepared, but pressure of other matter will prevent their appearance until next issue.

J. E. Smith's Clydesdales and Shorthorns.

J. E. Smith's new stock barn at Brandon and a few of his magnificent horses and cattle are represented in the frontispiece of this issue. The barn is situated a short distance east of 1st street on Smithfield avenue, in the city of Brandon. The size is 50x112 feet; the basement of solid stone, 2 feet thick and 101 feet high; the superstructure 16 feet clear. The interior is fitted with all the modern improvements and conveniences for ventilation, feeding, etc., and include a windmill for cutting fodder, crushing grain and pumping water. The object of the proprietor in establishing this barn is to have a central emporium for distributing the products of the Beresford Farm, know as the home of pure-bred Clydesdales and Shorthorns. It is also the intention to keep thoroughbred Herefords and Galloways. The two latter are now bred on separate farms owned by Mr. Smith, and quite remote from the Beresford Farm. Another feature is thoroughbred Large Improved Yorkshire pigs; orders for these are now being booked for spring delivery.

The Beresford Stock Farm was established in 1882, and is one of the largest in Canada. Its aim has always been to keep pace with the times and the demand, which has been steadily increasing with the development of the home trade and that of the West. The best sires have always been kept, both in horses and cattle. The breeding stock has always been selected with care from herds of renown; not only good individual animals, but descendants of good ancestors have always been purchased for the Beresford herd.

Mr. Smith being not only a breeder, but also an importer of both Clydesdales and cattle, an abundant supply of the several varieties of stock is for sale at all times, and parties can depend on getting what they want. Brandon being such a central point, the facilities for shipping are most excellent. During the past few years thousands of farmers from all parts of the province and territories have been attracted to Brandon to inspect the Experimental Farm, and we are quite satisfied that when paying their annual visit to Mr. Bedford they will now find it a pleasure to also visit this immense stock farm. Mr. Smith will be pleased to show parties over it, whether they wish to buy or not. There is conclusive evidence that farmers are trimming their sails to grow less frozen wheat and raise more cattle, of no ordinary class, judging from the number of young bulls leaving this establishment for different parts of Manitoba and the West, and Mr. Smith's efforts to place before the farmers stock equal to any in the Dominion is being heartily appreciated, but not more than it should be. The following animals are represented in the cut :-No. 1. — The young Clydesdale stallion, Sin Donald A. [1224], is a horse of very compact build, round body, short legs flat and well feathered, and has grand action. He strongly resembles his famous sire, Star o' Stewarton [588] (5376). Sir Donald A. was bred at the Beresford Farm, both sire and dam imported from Scotland, and his pedigree includes many of the most noted horses of Scotland, notably old Darnley (222). Sir Donald A. is now being fitted for Chicago Exposition, and his owner will be much disappointed if he does not prove himself worthy of his immortal grandsire, old Darnley, known as the hero of a hundred red tickets No. 2.—The Clydesdale mare Rosilee [541], bred by Peter Innes, of Newplace, Keith Hall, Aberdeenshire, Scotland; imported by Alex. Russell, of Unionville, Ont. Sired by the great Scotch stallion Rob Roy (713); dam Jess of Newplace (6292), by Daintie Davie (213). Rosilee is a broad set mare, with well sprung ribs and massive quarters, with a grand set of legs, and, as can be seen by her pedigree, is of good Clydesdale breeding. Rosilee is not yet seven years old, has three colts, all living and hearty, sired by Lord Randy (imp.) [1011] (5174), and is due to foal in June to the same sire. No. 3.—Lady Beresford [1075] is rising four years old. She is one of the group awarded Bonanza Sandison's \$100 prize at the Brandon Summer Fair; 1892, for the best pedigreed mare with three of her progeny-Lady Beresford being the eldest filly, her dam being Lady Kenmuir, sired by Kenmuir Prince (1459), he by old Prince of Wales (673); dam of Ken-1 had roads.

muir Prince, Lily, by Lockfergus Champion (449); Lady Kenmuir's dam, Darling (Vol. X., S. C.B.), by Darnley (222). Lady Kenmuir is descended from the two most noted Clydesdale stallions in the world, Prince of Wales (673) and Darnley (222). Lady Beresford's sire is Bravery (imp.) (383), sire Strathleven (1539); dam Beauty (436), by Prince of Wales (673). From the above it is easily seen, by those versed in Clydesdale lore, that a much better pedigree could not be found in the annals of Clydesdale Stud Books than that possessed by Lady Beresford.

No. 4.-Windsor (56771), bred by S. Campbell, Kinellar, Aberdeenshire, Scotland, imported by J. & W. Russe'l, Richmond Hill, Ont., has proved himself one of the Shorthorn stars of Canada, not only as a show bull and prize-winner, but also as a stock bull. Windsor was awarded first prize at the London Provincial Show, also first at the Toronto Industrial as a two-year-old bull in 1889; first in Toronto as a three-year-old in 1890; also first in the class of three-year-old and over at Ottawa, and was shown in the herd awarded gold medal and diploma at Ottawa in 1890. Windsor is the sire of the young bull Prince Royal, which carried first prize at Toronto Industrial, 1891 and 1892, and first at Ottawa and Montreal, 1892. Windsor is a half-brother of the first and second prize bulls at Toronto in 1892. He is now king of the Beresford herd. Several tempting offers have been made and refused for Windsor, but Beresford needs the best, and at the present time Windsor is one of the things money won't buy

No. 5. -Lady Irvine =9516= was bred by J. & W. B. Watt, of Salem, Ont.; sired by the veteran bull Barmpton Hero = 324 =, sire Royal Barmpton (imp.) =217 = (45503), bred by A. Cruickshank, Sittyton, Aberdeenshire; dam Mimulus(imp.) = 343 =. Barmpton Hero has been acknowledged by all Shorthorn breeders one of the greatest bulls ever bred in America, not only as a show bull, but as a stock getter, many of the most prominent breeders in Canada to-day using the descendants of Barmpton Hero as their stock bulls. Lady Irvine has been a very successful prize winner as well as breeder. Her calves are always spoken for in advance. Her career in the show ring, together with that of her progeny, has done much to spread the fame of the Beresford Shorthorns.

No. 6.—Beresford Flower =15199=, got by Lord Lansdowne(imp.) =2712=; dam Lovely20th =12301=, by Butterfly's Duke =390=, dam Lovely 19th (imp.) She is a true type of the Aberdeenshire Shorthorns, and a great breeder. She is a sister of Pauline, that carried so many prizes in Ontario, also in Manitoba after coming to Beresford. Beresford Flower is rich in royal ancestors, her sire being a Cruickshank Sittyton bull, and her dam of the noted Lovely family; her maternal grandsire Butterfly's Duke, by the 4th Duke of Clarence (33597), the \$13,000 bull, dam imported Butterfly Duchess—two of Bow Park's most successful show animals.

No. 7.—Matchless of Elmhurst 11th = 12451 = bred at Elmhurst by W. J. Biggins; sire Royal Elmhurst: dam Matchless of Elmhurst 3rd = 3881 = sire Baron Lonan 3rd, bred at Bow Park, Brantford, sired by the pure Booth bull, imported Royal Tudor (35411). Matchless of Elmhurst 11th is of one of the longest and most prominent Sittyton strains ever in Canada. Her stock has always proved a very pro fitable auxiliary in the Beresford herd. No. 8.-Lady Greenway =15205=, by Lord Lansdowne (imp.) =2712=, dam Violet =2004=, by Barmpton Hero = 324 =. Lady Greenway, named in honor of Manitoba's Premier, is one that even he might be proud to possess. Sufficient to establish her reputation is the fact that the blood of the grea Barmpton Hero flows through her veins.

"The Robertson Combination for Ensilage."

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Ensilage has come to mean any kind of fodder which is cured and preserved in a succulent state for the feeding of domestic animals. The silo has no power to add any nutrient to the fodder which is put into it for preservation. Its contents may become more digestible and palatable by the changes which proceed slowly under the action of ferments, or they may become less pleasant and wholesome if fermentation goes too far. Fodder which is deficient in nutrients before it is put into a silo, will experience no regeneration there. Degeneration into offensive material is the only and constant tendency, and that can be arrested.

To prevent deterioration and decay is the function of the silo; and to that end it should be constructed to exclude the atmosphere. To do so requires the use of building material of adequate strength. The fastening of its parts, at the foundation and at the corners of the silo, should be secure. I have found one ply of sound one-inch lumber, tongued and grooved, nailed horizontally on the inside of studs two inches by ten inches, or two inches by twelve inches, to be sufficient.

Indian corn—the great sun-plant of this continent—is undoubtedly the most serviceable_cropwhich has been used for ensilage; but although it be ever so well preserved as to succulence, odor, flavor and color, it is an incomplete food for cattle. With a marvellous proclivity for storing up starch, gum and sugar out of the elements of the air, the corn-plant becomes a veritable accumulator of sunstrength and energy. Its carbo-hydrates or "heatproducing parts" are largely in excess of its albuminoids or "flesh-forming parts." These latter are present in no mean quantities in fodder corn per jacre; but, for a wholesome, economical, complete food, they are out of correct proportion to the other constituents.

A main function of intelligent men on earth seems to be, to put and keep things in their right relationships to each other, and therefore the intelligent farmer has been putting carbo-hydrates and albuminoids, in the rations for his cattle, in the right relationships and proportions to each other even at the expense of his purse. That has been done commonly by adding ripened grain, such as oats, barley, wheat and pease, to the bulky-fodder part of rations, or by buying for that purpose oilcake, cotton-seed meal, or some other feeding commodity which is rich in albuminoids.

For a few years I have been seeking to find and put into the silo, with Indian corn, some other plant or plants which would furnish the necessary quantity of albuminoids, in a form which would cost very much less than ripened cereals, or concentrated by-products. Clovers and pease have been tried with indifferent success, and the climbing or pole beans have been grown, with cornstalks for trellis, without appreciable advantage.

The Horse Bean or Small Field Bean (Faba Vulgaris, var. Equina) seems to meet the needs of the plant grows with a stiff, erect quadrangular shape. It attains here a height of from three to four feet; and it grows in England and Scotland to a height of from three to six feet. It bears pods from within six or eight inches from the base of the stalk to near its top. The ripened beans are of a greyish-brown color, and of an oblong, round shape about 1/2 inch in long diameter and about § inch in short diameter. With us the plants have carried ripened beans in the lower pods, while the topmost ones on the same stalks were hardly out of bloom. By growing the Horse Beans as a fodder crop, in rows 3 feet apart, with 3 or 4 plants per foot in each row, we obtained an average yield of 6 tons, 1,610 pounds per acre of green fodder. Representative samples of the crop were analyzed by Mr. Frank T. Shutt, chief chemist of the Dominion Experimental Farms, and from his analyses it is established that the Horse Beans contained 370 pounds of albuminoids and 94 pounds of fat per acre. They were preserved in a silo in a laver by themselves, and also in mixture with Indian corn plants. They were grown also in alternate rows with Indian corn, and, moreover, were grown in the same rows with Indian corn,the beans and corn being mixed before they were put into the planter. I have not exact data for the vield of beans in the latter case, but I estimated (and I think correctly) that the yield of bean-fodder was at the rate of $4\frac{1}{2}$ tons per acre, in addition to the Indian corn, and without causing any less yield of corn than where no beans were grown with it. It will suffice at present to say that the cattle relished the Indian corn and Horse Beans ensilage. Although albuminoids and carbo-hydrates (in the form of starch, gum, sugar and fibre) may be

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tallions an adgements as the Besides the Clydesdales illustrated Mr. Smith has twenty registered Clydesdales, and fifty brood mares, fillies and working horses—all high grade Clydes.

There are in all one hundred Shorthorns, all registered in the Dominion Herd Book; ten registered Galloways, the cows and the bull, Professor Troquhain, imported from Scotland by the late Thos. McCrae, Guelph, Ont. The herd of Herefords comprsies twenty-seven animals, principally of the celebrated Tushingham strain. The stock bull is Tushingham 5th, and several of the cows are the get of Tushingham 2nd, first prize wherever shown in Ontario in 1892, and the best bull any age in the Hereford class at Toronto, 1892.

A bad road is a tax, and a heavy one at that, Want to escape that tax? Join the crusade against bad roads.

FARMER'S ADVOCATE. THE

STOCK.

Isaleigh Grange.

contained in an Indian corn and Horse Bean mixture in nearly correct proportions, it is still an incomplete food, from deficiency in fat. The Sunflower (Helianthus annuus) grows luxuriantly over the whole of the temperate zone of this continent, and the seeds contain a large percentage of fat. The variety known as the "Mammoth Russian" was grown in rows 3 feet apart, with the plants from 3 to 18 inches distant in the rows. There did not appear to be any appreciable difference in the weight of the crop per acre, where the plants were grown close or more distant in the rows. They yielded at the rate of $7\frac{1}{2}$ tons of Sunflower heads per acre. From the analyses made by Mr. Shutt, it was established that they contained 352 pounds of albuminoids and 729 pounds of fat per acre. The combination for the feeding of cattle may be

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prepared as follows :--Half a bushel of Horse Beans are mixed with one

third of a bushel of Indian corn, and are sown or planted on one acre, in rows 3 feet to 31 feet apart. The method of cultivation to be followed is similar to that for the culture of fodder corn. When the corn reaches the glazing stage of growth, the pro-duct from two acres of the mixture, (which being grown together is necessarily handled as one crop), is cut and put into the silo, together with the heads from half an acre of Sunflowers. The Sunflower heads may be reaped with a common sickle, carried to the cutting-box on a cart or wagon, and put through it, on and with the Indian corn and Horse Beans.

The following Table shows the quantities of the nutrients which are contained in the crop from two acres of Indian Corn and Horse Beans grown together, and in the heads from half an acre of Sunowers grown separately:-

	Albuminoids.	Carbo- hydrates and Fibre.	Fat.
	Lbs.	Lbs.	Lbs
INDIAN CORN: 15 tons per acre=30 tons	1,092	10,302	324
HORSE BEANS: 4.5 tons per acre=9 tons		1,361	125
SUNFLOWER HEADS: 7.5 tons per acre = 3.75 tons		1.186	364
	1.758	12,849	813

The 666 lbs. of albuminoids in the Horse Beans and Sunflowers are the equivalent of the albumin-oids in 115 bushels of mixed cereals (barley, wheat and oats.)

Two acres of fodder corn, at 15 tons per acre, furnish 1,200 single feeds fo 50 lbs, each. The albumi noids, in the Horse Beans and in the heads from half an acre of Sunflowers, are the equivalent of the albuminoids in a quantity of mixed cereals sufficient to give 41 lbs. with every feed of the 1,200. It is to be expected that further experiments will demonstrate that the albuminoids in the Horse Beans and Sun-flowers, being in a succulent condition, will be more easily and fully digestible than the ripened cereals. The cost to produce the "Robertson Combination for Ensilage" from 21 acres, is \$15 more than the cost for growing 2 acres of Indian corn alone. The extra items are :- Sunflower seed for half an acre labor of planting, cultivating and reaping half an acre of Sunflowers; and Horse Bean seed for 2 acres; total, \$15. Against that outlay of \$15, the return in albuminoids is the equivalent, for the feeding of cattle, of 115 bushels of mixed cereals. I have made no estimate of the value of the large quantity of fat in the Sunflower heads. A group of milking cows are being fed on a ration, of which the ensilage part is made from mixing the heads of Sunflowers from half an acre with Indian corn fodder from two acres. The cows of another similar group are being fed upon a like ration, of which the ensilage part is from Indian corn alone, with 2 lbs. of grain per head per day more than is allowed the cows of the former or Sunflower group. The milk from the two groups, is set in deep setting pails in ice water under the same conditions; and the following results are apparent from an average of nine tests :-

This farm, which is the property of Mr. G. N. Greenshields, Montreal, is now the seat of one of the largest fine stock breeding establishments in the province of Quebec. It is conveniently situated for railway accommodation, being within two and a-half miles of Danville, P. Q., which is on the main line of the G. T. R., between Quebec and Montreal, and near Richmond, the junction between the above line and the Portland branch of G. T. R. The farm contains eight hundred acres of easily worked land, which is very suitable for pasture and growing the crops required in stock feeding, while water in abundance is supplied by the living springs abounding throughout the property, and two never-failing streams coveniently situated for furnishing this essential on a stock farm. Many improvements have already been added since the farm came into the present proprietor's hands, among which are extensive stock and grain barns, sheep houses and piggery, all of which are equipped with modern appliances of most modern character.

Stabling for 100 cattle is provided, and 300 sheep have roomy and convenient quarters, while the piggery is the most perfect of its kind. This building is 100 feet long and 30 feet wide, is built in the most substantial manner, and is heated with steam, so that cold has no effect upon the occupants, let the weather be ever so severe outside. The main barn is 165 feet long by 40 feet wide, contains four threshing floors, with shafting conveniently placed for running the necessary machinery operated in threshing and cleaning the grain, as well as preparing the feed for the stock. A 25-horse engine supplies the power which drives the whole of this machinery, and is also further connected with the milk separator, the circular saw for cutting wood, etc. The engine-house, grain-grinding room, icehouse and dairy, together with a large store room, are situated close to the barn.

Guernseys are the cattle bred at Isaleigh Grange. At the head of this herd is the bull Ontario's Pride 1029, A. G. C. C., which is undoubtedly one of the best bulls of the breedon the continent, and pronounced by that astute judge, Mr. Wm. Crozier, of Long Island, to be one of the best dairy bulls of any breed inAmerica.

The cows are also a remarkably fine lot, and, taken as a whole, display capital dairy points. They have large frames, are smoothly finished, and are among the most handsome of the dairy breeds. The cow Eliza C. 2nd, a lemon-colored fawn, with white markings, comes nearly to the perfection in type of what we consider a dairy cow should be; her grandly developed milk vessels, elastic touch, and handsomely turned horns all bespeak high breeding.

The four-year-old cow May Queen 7th is another rand, large cow that claimed our attention, al-

of Mr. D. Gibson, Edgebaston, Birmingham, England. This sow has never been beaten in England, having won at the Royal and numerous other large shows. She is now carrying a litter of pigs to Holy-well Prince, also a winner in the best company in

After leaving the main building, a few minutes drive with the manager brought us to the sheep barns, where we found, perhaps, as choice a collec-tion of Shrops as can be found in the Dominion. It is not necessary, perhaps, to say much about the sheep, as a short description with illustrations ap-peared in our December (1892) number. We cannot, however, pass them over without mentioning a magnificent shearling ram, The Other One. This sheep, bred by Mr. George Thompson, of Wroxall, Warwickshire, England, was commended at the Royal, and received the reserved number at the Shropshire and West Midland Show at Welshpool, Snropshire and west Midland Snow at Welshpool, England, being considered one of the best yearlings of the year. While not overly large to the eye, he is a sheep of tremendous scale, showing a grand back and loin, short couplings, good brisket, and a magnificent fleece. The flock, which numbers over 100 head ovelweine of this year's lamba, of which 100 head, exclusive of this year's lambs, of which there were at the time of our visit nearly 50, gives every evidence of careful and judicious handling every evidence of careful and judicious handing without the slightest pampering, all the stock sheep being in strictly breeding condition. Besides the pure-bred Shrops, a flock of about 120 grade ewes are being lambed this spring, thus making the total num-ber of sheep wintered at Isaleigh Grange 235, all in charge of an experienced English sheeperd, the charge of an experienced English shepherd, the manifest signs of whose careful management it does not take an experienced eye to detect.

does not take an experienced eye to detect. Before closing, we might mention that what es-pecially struck us at Isaleigh Grange was the systematic manner in which everything is carried out, the manager, Mr. J. Y. Ormsby, whose reputa-tion as a stockman is already known, being seconded in a wort officiant manner in their respective detion as a stockman is arready known, being seconded in a most efficient manner in their respective de-partments by the farm foreman, Mr. M. Lockwood, and the shepherd, Mr. O. Lloyd, as well as Mr. M. Mansell, to whom we have already referred.

Chatty Letter from the States.

(From our Chicago Correspondent.)

Marketing of live stock, except sheep, is falling far behind last year, though the decrease in cattle is comparatively light.

The fat cattle market is not at all strong, though prices are decidedly better than a year ago, when exporters bought choice cattle at about \$4.00. Some time ago Mr. Armour thought hogs would soon go to \$6.00, and now Mr. Cudahy thinks they will not go below \$7.00. The prices, however, have been on the down grade, and have made a big drop from the high point last month—\$8.75. The fact seems to be that the increased price of pork has reduced the consumptive demand to such an extent that prospects for higher prices, in the near future at least, are not good.

"Hogs scarce" is the one message that comes from all of the swine growing sections. Farmers and feeders are paying as high as 8c. @ 9c. per th. for pigs and brood sows in many counties, and cannot get what they want at that.

There is a very full marketing of calves, looking as if cattle-men preferred good prices for veals rather than take chances on grown cattle. One day recently about 800 native calves were received, principally from Wisconsin, being the largest run of native "bawlers" this year. Sales were made at \$5(@\$7, largely at \$5.75(@\$6.75, averaging 95 to 114 ths. As has been previously stated in these letters, Texas calves have been marketed during the past winter months in unprecedented numbers. A Chicago man who has been travelling in Texas for two months says the business of stock-feeding is developing so rapidly that it will not be long before Texas will have an all-the-year-round beef crop. He thinks the supply of fed cattle will be pretty well out in about thirty days, and then grassers will be ready to move right along. Cattle men expect better prices than last year. Cottonseed meal and hulls constitute the chief feed of the Texas cattle this year. Mexico has repealed the duty on American corn (maize), and the state farmers, especially those in the southwestern portion of the country, are rejoicing. A company of Chicago capitalists is engaged in erecting slaughter and refrigerating plants in Mexico, and the people of that republic are being urged to raise more good animals.

	From ration with Sunflow- er Ensilage.	From ration with ordinary Indian Corn Ensilage.		
Percentage of fat in skim-milk. Churning period, minutes Percentage of fat in buttermilk.	.35 30 .25	.51 20 .40		
		C 1 4h		

The butter from the cows, which are fed on the ration with Sunflower ensilage, has a richer flavor and a slightly higher color than that from the other

lot. The Sunflower ensilage has developed a most agreeable odor, and the cattle are greedily fond of it.

Besides the points which have been mentioned, it should not be overlooked that Horse Beans belong to the family of plants which have the faculty of appropriating free nitrogen from the atmosphere for the formation of the albuminoids which they contain. It is possible to increase the fertility of soil rapidly and to a remarkable degree, by growing the crop and feeding it to dairy or fattening stock. Protection to the land and profit to the pockets of the farmers are the two fruits to be expected. These form a capital combination for Canadian farmers, and no personal proprietory right restricts the use of it.

JAS. W. ROBERTSON. Experimental Farm, Ottawa, Ont., 21st March, 1893.

though there were many others equally good here.

The calves were a remarkably good lot, the gem of the whole collection perhaps being a four-monthold bull calf, Isaleigh Choice, by Ontario's Pride, out of Eliza C. 2nd. This is really a marvellous youngster, showing wonderful size for his age, smooth and level all over, a beautiful handler; in fact, to our mind, about the perfection of what a dairy bull should be.

We cannot leave the cattle without paying a tribute to the herdsman, Mr. M. Mansell, a son of the well-known Shropshire breeder, Mr. T. J. Mansell, of Dudmaston, England. Mr. Mansell, who, we might say, has barely reached his twentieth year, deserves the greatest credit for the beautiful form in which he has brought the herd, numbering over eighty head, through the winter.

The Yorkshire herd, founded on stock from the herd lately owned by the manager, Mr. J. Y. Ormsby, has been increased last year by a large importation from the best herds in England, including two grand stock boars from the well-known herd of Mr.Sanders Spencer. One of these, Holywell Manor, winner of first last year at the Royal Show at Warwick, has been pronounced by good judges, both in England and Canada, a faultless type of a bacon pig. His magnificent hams and well sprung ribs, combined with his tremendous length and depth, cannot but please the most critical eye, while his clean, flat bone and excellent coat of hair indicate a grand constitution.

Among the sows, besides a few choice specimens from Holywell, we noticed a capital sow of Lord Ellesmere's breeding, the dam, we were told, of a prizewinning pen of boars at the Royal; and last, but not least, a beautiful yelt from the Metchley herd | holding to get a better price from year to year.

Boston and Chicago capitalists are trying to stablish a large beef and pork packing plant at Fort Worth, Texas, with some show of success.

Meat distributing centres are constantly multiplying.

Some hay-fed northwestern range cattle were recently marketed here. Eighty-four head, 1,248 its., sold at \$4.15, and 44 head, averaging 1,187 its., sold at the same price. These are about such cattle as could be raised in the Canadian Northwest. A lot of 73 corn-fed western range steers, averaging 1,271 fbs., sold at \$5.25. Some seven-year-old 1,850 b. cattle sold at \$4.60, while fat two-year-olds sold at \$5.50. The owner of the seven-year-olds was APRIL 1, 1893

THE FARMER'S ADVOCATE.

THE FARMER'S ADVOCATE & HOMÉ MAGAZINE

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

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THE FARMER'S ADVOCATE, or THE WILLIAM WELD CO., LONDON, ONTARIO, CANADA.

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Our Scottish Letter. SHOWS AND MEETINGS.

Two events closely connected come before us at this season-the Glasgow Stallion Show and the annual meeting of the Clydesdale Horse Society. Between the two there is no direct union, but the indirect influence of the one upon the other is very apparent. The presence of the numbers attached to the pedigrees of the animals is the least of the indications of that influence with which all have been familiar since 1879. The complete revolution which has taken place in the method of hiring horses, during the past ten years, is undoubtedly due to the silent but steady influence of the movement in favor of pedigree registration, and the independence of this movement of all such abnormal and passing agencies as the foreign demand is conclusively established by what has been transpiring during the past six months. The anxiety of farmers to secure the most valuable horses for breeding purposes is now seen to have been due to no feverish excitement arising from an excessive foreign demand, but to a steadily-growing con-viction that no horse should be chosen for breeding purposes during the bustle and anxiety of a great show and competition. There was too great nerve tension and too little time to make a leisurely survey under such circumstances, and consequently no less than fifty-four of the best horses were under hire before the gates of the show were opened.

How widely supported is the system of pedigree registration followed in the Clydesdale Stud Book evident from the fact that in the three open classes there were but five aged horses, two three-year-olds, and no two-year-olds that would not re-gister, and in the whole show there was not a single horse that could be styled cross-bred. The total number of three-quarter-bred Clydesdales in the whole show was ten, and this indicates a remarkable change in less than the same number of years. The competition for the Cawdor Cup forms an important link between the Stud Book and the show, and the interest taken in it is one of the healthiest signs of the present state of Clydesdale breeding. The tone and temper of the annual meeting of the Clydesdale Society were indicative of buoyant hope, and while there was some difference of opinion in regard to points of administration, it was quite apparent that the future was not regarded with fore boding, but with an optimistic and cheery con-fidence. A society confined to one section of the community, and offering no inducements to its members but the patriotic maintenance of a valuable breed, may well be hopeful when, at the close of its sixteenth year, in spite of a season of depression it counts on its roll no less than 1478 members, and is adding new supporters from month to month to take the places of those dropping out of the ranks by the efflux of time. The Clydesdale Society has weathered many storms ; its infancy was cradled amidst strong opposition, and its mid-life passed in a keen conflict; and while never possessing either the possibilities or the realities of wealth to which its Southern neighbors have attained, it has been loyally supported alike by the leaders and the rank and file of the Clydesdale world. Its future will not be unworthy of its past.

The show yesterday, 10th inst., opened under very favorable weather auspices.

AGED HORSES. The judging of the Glasgow premium and the open prizes proceeded on parallel lines. The entries for the £80 premium for the aged horse numbered 79, and included some notable prize-winners, in-cluding Prince of Princes, and Williamwood, from the Eastfield stud; Mr. Dunn's Master Robin; Gerard, Go Ahead, and Lord Ailso, from Croy Cun-ningham; Mr. Johnston's William the Conqueror, Craichmore Darnley, and Royal Signet, from Hatton; Johnnie's Style and St. Stephen, from Meadowfield ; Moneycorn, from Blackhall ; Hamish M'Cunn and Juryman, from Berryyards; and Royal Stuart, from Westburn. Quite a large number of horses were drawn up for the Glasgow premium-indeed, far too many-but eventually the leet was reduced to the following ten, viz :- Mr. Dunn's Master Robin, a very handsome horse, looking extremely well, and without question the best mover on the causeway in the class, Mr. James Johnston's William the Conqueror, which last year won several prizes; he is looking very well, and has grown into a big, powerful horse. Mr. Riddell's Moneycorn, the winner of the premium last year, wearing very well, and in every respect a very handsome horse. Mr. Alex. Scott's Hamish M'Cunn, which, since last season, has thickened greatly, and now appears to be a much shorter legged horse than he formerly was. Mr. Walter Park's two horses, Craichmore Darnley and Royal Signet, both of which had been successful in securing good premiums: The former is a horse of great sub-stance, with grand lines all over. Royal Signet stood well forward, and is growing into a first-class horse with splendid action. Messrs. J. & J. Wil-son's Royal Stuart was also among the horses drawn. He is a good mover, and a very thick, powerful horse. Mr. Riddell's horse, Sir James, bred by Sir James Duke, and the winner of the and active, both of them sons of Darnley, were great sight. There entered for competition—Prince among the horses of favor. After a careful ex- of Millfield, Master Robin, Goldfinder, Rosedale,

amination two animals were drawn from this lot, namely, Moneycorn and Master Robin. These horses are of distinct types, Moneycorn being a big, upstanding stylish horse, but perhaps a little want-ing in rib; Master Robin, a very fine, short-legged horse of memory and the free memory to a start of the st horse of prime quality. After a few minutes' con-sideration, Royal Signet was drawn over along with these two horses, and the premium was awarded to Moneycorn. Mr. Riddell then withdrew his horse from further competition, and the judges of the open class—Messrs. Robert Bryden and Robert M'Allister—took their work in hand. For the open class there were several important additional com-petitors, the most notable being the H. and A. S. champion of last year, Mr. Taylor's Rosedale; Mr. Kilpatrick's celebrated horse, Prince of Kyle ; Mr. Riddell's grand big horse, Gallant Prince, and the Messrs. Crawford's well-known prize horse Gold-finder, that was first at the H. and A. S. Show at Stirling in 1891. The short leet of seven consisted of all of these horses, with Master Robin, Williamwood, which in days past more than once defeated Rosedale, Johnnie's Style and Royal Signet. It was subject of general remark that never had the merit of the horses in the leet been excelled. There have been perhaps as good horses, but there certainly never were better. The judges had no difficulty in placing the first and second horses— Prince of Kyle and Rosedale. It was generelly admitted that the first was looking better than he had ever before done. He has thickened out wonderfully, and is at present a horse of fine pro-portions, with rare quality of bone, and moving to perfection. Mr. Kilpatrick had certainly cause to be proud of his horse. To our mind he was walking better than when he was younger, and his closely-coupled frame and fine cantour were the subject of universal admiration. Mr. Taylor's finely-built horse Rosedale has always been a great favorite. He was the Duke of Hamilton's premium horse last year, and this season is under hire to the Dunblane, Doune and Callander district. His position was regarded as in every way well deserved—and could he but trot with the same freedom in front as Prince of Kyle, would probably be as stiff a com-petitor as that gallant Clydesdale ever faced. Difficulty was experienced by the judges in placing the third horse. At first their order was Goldfinder third, Master Robin fourth, and Gallant Prince fifth, but second turn there seemed to be a dis-position to place Gallant Prince further up, and eventually matters came to a dead-lock. Mr. Weir was drawn by ballot as referee, and was asked to decide between that horse and Goldfinder for third place. He undertook the task, and after an examination in his usual masterful style, he put Gallant Prince third, and Goldfinder next. This placed Master Robin a stage further down, and our udgment would hardly have gone this way. Following the type of the first and second horses it seemed to us that Master Robin, in view of his own unexampled merits and admirable balance of points, should have been placed third. He has few equals, and no superior if absolute justness of points be considered. The only objection that can be made to him is that he is a little lighter than is requisite in a heavy draught horse. Johnnie's Style, which wears well, was sixth, Royal Signet seventh, and Williamwood eighth. Although we have not inserted their numbers, all of these horses will be found registered in the Clydesdale Stud Book.

THREE-YEAR-OLDS.

This was not nearly so strong a class, either in numbers or merit, as the aged horses. The winner of the Glasgow premium, Mr. Spittal's choice big

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CANADIAN THORPE BARLEY.

CANADIAN THORPE BARLEY. Except on rare occasions and in favorable localities, the English Two-Rowed Barley have not done well in Canada, but the Duckbill – have done very well in all parts where the Six-Rowed Barley succeeds. For feeding purposes it is far superior to the last named; it is also a much heavier yielder, according to English reports. It is an excellent malting variety, but for this purpose should never be mixed with any other sort. It is an upright grower, long, bright and very stiff in the straw; seldom, if ever, lodges. Dur-ing the last three years it has been tested by leading farmers residing in various parts of Ontario; also by the Dominion Experimental Farms. All have found it the variety par excellent, being hardier, withstanding frost and the hardlest wheats in this respect. The average yields of this variety will varv from 40 to 60 bushels per acre. The grains are large and plump; if cut early and carefully hard-picked in the bag and field for the past ten years, and for ten previous years it was each year carefully shard-picked in the bag and field for the past ten years, and for ten previous years it was each year carefully hard-picked in the bag and field for the past ten years, and for ten previous years it was each year carefully hard-picked in the bag and field for the past ten years, and for ten previous years it was each year carefully hard-picked in the bag and field for the past ten years, and for ten previous years it was each year carefully hard-picked in the bag and field for the past ten years, and for ten previous years it was each year carefully hard-picked in the bag and field for the past ten years, and in the field, so that it now is a well-established pedigreed varlety. For one new yearly subscriber to the FARMER'S ADVOATE we will send 20 bbs. of this Barley, or for two new subscribers, 48 lbs.; for every additional new sub-scriber we will send bushel (24 lbs.) bags free. The grain will be sent by freight or express, as desired by

horse, The Summit 9442, was first in the open class. He was got by Sir Everard 5353, the winner of the Glasgow premium three years in succession, and thrice first at the great spring show. Glenlichorn, a son of Ardnacraig, bred at Kippendavie, and owned by Mr. Riddell, was second. Mr. George Alston was third with his beautiful horse, Vanoras Prince 9461, and a capital horse, Lightsome Lad 9273, out of the dam of Royal Signet, and got by Craichmore Darnley, was fourth. He is owned by Mr. David Logan. Mr. Andrew Montgomery's powerful and strong, well-colored horse, the Mac-Kerrall 9303, own brother to Newtonairds, the sire of Rosedale, was fifth. Choice Goods 9161, a stylish horse from Eastfield, was sixth, and Scotch Fashion, from Blackhall, seventh.

TWO-YEAR-OLDS.

In this class there was a reversion to something like the merit of the aged class. Mr. David Mitchell, of Millfield, was first with his immense, dark-colored, big horse, Prince of Millfield 9650, one of the grandest horses of his age seen for many a day. Mr. William Clark was second with Prince of Elgin 9646, bred by Mr. W. Robertson, Linkwood, Elgin, and got by Prince of Kyle. Yet another son of the same sire, Scottish Standard 9674, owned by Messrs. Crawford, was third, and sons of Sir Everard 5353, owned by Mr. Taylor and Colonel Stirling, were fourth and fifth.

CAWDOR CHALLENGE CUP.

The decks were now cleared for the Cawdor Cup competition, and great interest was excited by the war of the Titans. Speculation was busy regarding the prospects of the older horses when pitted against the marvellous two-year-old, Prince of Millfield, the superb son of Orlando and Sunray. Seven brea by Sir James Duke, and the winner of the Lesmahagow premium last year, was likewise in the leet. This is a very good horse of beautiful quality, and was greatly thought of by visitors. Mr. Alexander Scott's Juryman, an old favorite, and Mr. W. Renwick's Johnnie's Style, looking well and active, both of them sons of Darnley, were

FARMER'S ADVOCATE. ТНЕ

Prince of Kyle and The Summit. The judges drew out the three first prize winners—Prince of Kyle, The Summit and Prince of Millfield, and by an ine summit and Frince of minned, and by an unanimous vote awarded the championship to Mr. Kilpatrick's great horse, with Mr. Mitchell's phen-omenal two-year-old reserve. There were many choice horses shown in the aged class, on which we choice norses shown in the agen class, on which we have made no note, but of which it would be fair to write something commendatory. The actions of the two sets of judges showed that there are but shades of difference amongst Clydesdale fanciers when the best are concerned, but amongst the rank and file divergence becomes more marked. The three competitors for the Cawdor Cup were such horses as no breed need ever be ashamed of. SCOTLAND YET.

Care of Colts.

BY DR. TORRANCE, V. S., BRANDON, MAN.

Many colts are lost annually from the want of a proper knowledge of their requirements on the part of their owners. When the foal is dropped, if it be in a stable, the greatest care should be taken that the surroundings are as clean as possible. The afterbirth and all soiled bedding should be removed and fresh straw provided, and in this way a free quent source of danger to the colt may be avoided— blood poisoning through the navel. The swollen joints of young foals, and abcesses that gather in various parts of the body and are often referred to some supposed injury, are generally the result of some supposed injury, are generally the result of blood poisoning from some septic material having been absorbed into the system through the moist surface of the navel cord. For this reason the sur-roundings of the colt should be kept as clean as possible, and, if the season admits, both mare and colt will be much better out of doors than in. The danger of blood poisoning is much greater if the navel cord has been ruptured close to the body than. if it has broken at the usual length, and in such cases the cord should be first washed clean and then ligatured by tieing a piece of stout cord tightly ligatured by tieing a piece of stout cord tightly around it. When mares foal out at pasture there is little danger of this disease attacking the colts, and on the Western ranches, I believe, it is practically unknown.

Bleeding from the navel sometimes occurs, and should be prevented by applying a ligature as described above.

Occasionally a colt will be observed to void its urine through the navel, and in this case, too, the ligature should be applied, but of course if the natural passage is undeveloped or obstructed from any cause, a fatal termination must be expected, unless professional skill can open the proper channel.

Constipation is, perhaps, the commonest ailment of new-born foals, and is the cause of great fatality. When the colt is born its rectum contains a quantity of dark-colored, waxy fœcal matter, which has accumulated there during the colt's existence in the womb, and frequently the colt is unable to expel these hard forces without assistance. Nature makes provision for this difficulty by arranging that the first milk secreted by the mare shall act as a purgative on the foal, and thus increase the action of the bowels and get rid of the obstacle. Owing, how-ever, to the fact that many mares are fed chiefly on dry feed up to the time of foaling, the first milk sometimes has this purgative quality to only a slight extent, and other means must be resorted to. slight extent, and other means must be resolved to An injection of a quart of warm water should be given by means of a syringe, and repeated frequently until the desired effect is produced. Failing in this, a dose of two or three ounces of warm oil may be given ; but, if the youngster is weak, it will be bet ter to give him his medicine through the mare, and with this object the mare may be given a dose of aloes, or oil, which will readily act on the colt through the milk, and without causing griping pains. Diarrhœa is not so common a malady as the op-posite condition, but is more serious and difficult to treat. It may come on during the first or second day after birth, and may be caused by the first milk of the mare having too marked a purgative effect, and before attempting to check it by giving medi-cine, it is better to wait a day to see if it will not stop spontaneously, as in many cases it will do so. Should the diarrhoea begin at a later period the cause may not be apparent. Generally indigestion is the starting point, and a common cause of this is not allowing the colt to have a drink for three or four hours at a time. The mare cannot be spared from work, as the seeding is going on perhaps, so the foal is left shut up in the stable while the mare goes out to work. By the time she returns the colt is very hungry, and takes more milk than its stomach can digest, and indigestion and diarrhoea are the result. It should be remembered that a young colt's stomach is small and requires food often, and therefore during the first two weeks it should not be required to go more than three hours at a time without nourishment. In treating diarrhœa in young animals the object should be to induce a healthy action of the bowels by mild remedies, in preference to giving powerful astringents, which may stop the trouble for a time, but give way to more violent purging in the end. If indigestion is present, a teaspoonful of powdered charcoal, mixed with a beaten egg and a little water. is a good home remedy, and may be given two or three times a day. The milk of the mare may be rendered less laxative by feeding her on dry feed in preference to grass or mashes. Enemas of starch and laudanum are also safe remedies, and if the colt is suffering pain and straining often, a teaspoonful of laudanum may be given by the mouth.

But the object of this paper is rather to advise the breeder how to avoid some of the common causes of mortality among young foals than to discuss the treatment of their diseases, and we will conclude by advising the owner of a sick colt not to put off sending for the veterinary surgeon until he thinks the colt is going to die, or he will then often find, too late, that the surgeon will coincide in that opinion.

FARM.

Building With Concrete. BY G. A. LACEY.

One of your subscribers brought me your last issue, as to me having some knowledge and likely to give a satisfactory reply to James Munro's query as to the building of concrete houses and walls. I have had some little experience with concrete, and give you the result :-

Twenty-three years ago I built a house, 24 x 30, story and a-half; put up $2 \ge 4$ scantling frame, boarded it inside, and filled the space, four inches, with concrete; tacked three feet of boards on out-side, taking them off and raising them as soon as the concrete set. I carefully measured the lime and gravel, thoroughly mixed it three or four days be gravel, thoroughly mixed it three or four days be-fore using. My mixture was one shovel of fresh slacked lime to three shovels of gravel. The gravel was pretty sharp sand and stones as large as would go in the space, with plenty of smaller gravel stones as taken from the pit. The house stands to-lar and the concrete has become as bard as glass day, and the concrete has become as hard as glass.

Eleven years ago I bought a lot in this village, and, as there was plenty of gravel in the cellar, I built my house of concrete, 32 x 34, two stories, with bay windows, eighteen feet walls—the higher I got my house the deeper I got my cellar. I i got my nouse the deeper i got my cenar. I mixed my concrete nearly in the same proportions, though employing laborers it was difficult to make them believe that such mud would make good concrete, and when not closely watched would make the concrete richer with lime. The house stands today as perfect as it was built, except where the concrete was made richer than a fourth, it shelled a crete was made richer than a fourth, it shelled a little, but nothing to hurt. My cellar was 18x30, with good strong foundation walls. The foundation under the other portion of the house was a trench two feet wide down to the gravel—about two feet. I filled the trench with small stones, pounded them down, and built stone on the small stones above the surface from a foot to eighteen inches. The idea of the trench filled with small stones was to prevent the trench filled with small stones was to prevent On the stone wall I put a two-inch moisture. plank, ten inches wide all round, to carry the weight of the superincumbent mass of mortar evenly, in case of any weakness in the foundation trench cracking the wall. No crack came in it. Walls one oot thick, bond timber, strapped and lathed.

Last summer I put up a building of concrete for a store, with offices over, $28 \ge 60$, 25 feet walls. As before, I took the gravel from the cellar-the cellar is seven and a-half feet to joists. After taking the surface soil from the space to be covered by the building, I dug to the depth intended for the cellar walls, throwing the gravel to the centre. Having built the cellar walls, laid the sleepers, and made platforms of plank to mix the concrete on inside the building, three on each side, threw the gravel from the cellar to the platforms for mixing. After the cellar walls were completed I laid a two-inch plank ten inches wide on the wall, and put up a 2 x 4 frame, setting it fourteen inches in so that the walls, twelve inches thick, would go two inches in the scantling-the scantling answering for bond timber, and leaving two inches for air between lathing and plastering. I used one and a-half inch plank, fourteen inches wide, to hold the mortar, lapping two inches, raising a foot at a time. The advantages of the scantling frames are : The walls can be carried up perfectly true, and the cost is about the same a bond timber and strapping. The corners should be of the plank, three feet long, clamped with iron to prevent spreading. I found that mixing the concrete on the floor and raising it with shovels the cheaper plan of getting it up. When it got too high for the man on the floor to shovel it in, I had a movable platform made to which he could raise it. and another man to raise it from the platform. It took no longer to put up the twenty-fifth foot than the first, and the concrete was the better from the additional handling. As it really is building a house in moulds, blocking or other ornamentation of the outside is simply a question of the taste of the builder. To be more minute as to my way of building would necessitate your making an untimed story of it in your valuable and interesting publication. I will give any of your readers, should they desire, such further information as I can by letter To sum up, I believe concrete made from good gravel and lime to be as durable as stone or brick. and considerably cheaper. If good gravel and lime are used properly and thoroughly mixed age only hardens it, and a house built of it should be better in a century than when built. It would become a perfectly solid stone.

Distribution of Seed Grain.

APRIL 1, 1893

Wm. Saunders, director of the Dominion Experimental Farms, has long interested himself in the good work of distributing samples of the most progood work of distributing samples of the most pro-mising varieties of grain among the farmers, believ-ing that only in this way could new varieties be tested properly, and their fitness for all the varying tested property, and their intress for an the varying conditions of soil and climate of the Dominion be shown. With this end in view, last year 16,905 sample bags of promising sorts of grain, weighing 3 pounds each, were sent free through the mail to 9,114 farmers residing in different parts of the Dominion. This large gues through the mail to 9,114 farmers resulting in different parts of the Dominion. This large quan-tity of grain, over 25 tons, was all of first quality, and consisted of the most promising sorts which have been tested on the several experimental farms. By instruction of the Hon. Minister of Agriculture a similar distribution is now in progress for this year, and already over 3,000 samples have been sent out, and a large number are being mailed daily. The object of this distribution is to place in the hands of good farmers in all parts of the country samples of the best varieties of oats, barley, wheat, peas, etc., so that they may shortly be available for seed in every district in the country, and eventually result in the displacing of poor, mixed eventually result in the displacing of poor, mixed and enfeebled sorts with varieties possessed of greater vigor and fertility. The number of samples sent to one applicant is limited to two in each case, and on this basis, a very large number can still be supplied. With careful and indicious handling these three. With careful and judicious handling, these threepound samples will generally produce from one to three bushels the first year, and at the end of the second season the grower usually has seed enough for a large field. The advantage resulting from this large distribution of the best sorts of grain obtainable will no doubt in a few years be generally manifest in an improvement in the quality and an ncrease in the quantity of the average grain crops of the Dominion. A circular is sent with each sample which the recipients are expected to fill up and return at the close of the season, with par-ticulars as to the character and growth of the grain. The request is also made that a sample of not legran. Than one pound of the product be returned to the Central Experimental Farm, so that information may be had as to the measure of success attending its growth. Samples are sent to applicants as long as the supply lasts. Letters can be sent to the Ex-perimental Farm at Ottawa free of postage.

Bromus Inermis.

This new Russian forage plant is being intro-duced by the Steele, Briggs, Marcon Seed Co., of Toronto, who speak very favorably of it for/the Northwest, Manitoba and British Columbia. It has also been highly recommended by the Experimental Farms at Ottawa Brandon Indian Head and else-Farms at Ottawa, Brandon, Indian Head, and elsewhere. They state that they have a large amount where. They state that they have a large amount of evidence in support of their claim that it is un-equalled by any other grass for its power of resist-ing drought, its nutritive qualities and productive-ness. One of the members of the firm saw it growing on the Experimental Farms in Iowa and Kansas and also at Brandon and in all cases it has Kansas, and also at Brandon, and in all cases it has given the best of satisfaction. Messrs. Steele, Briggs & Marcon have received the following reports, which speak for themselves :

PROF. SAUNDERS reports as follows :- Bromus Inermis.—" Of all the grasses not in general culti-vation which we have tried, this is by far the most promising. The seed germinates readily and the young plants soon become established. It is con-spicuous for its free leafy growth and tall stems, which bear an abundance of seed. It flowers here in the last week of June, and has produced nearly four tons of hay to the acre. It is very hardy. early, and a heavy cropper, and produces a heavy aftermath of succulent leafy shoots." GRASS EXPERIMENTAL STATION, Garden City, Kansas:-Bromus Inermis.-"This is also nearly related to the fescue grass, but endures the summer heat and drought much better and will grow on a much harder and poorer soil. It produces a great amount of long and tender leaves near the ground, while the culms are rather slender and are not produced in very great abundance, so that it is better fitted for grazing than for hay. It is one of the few species which remains green through the entire year, and bears grazing well. One plot of this was sown three years ago, and, so far, it has held the ground to the complete exclusion of all other grasses and weeds.

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A subscriber writes us :-- I think your plowing match man, W. A. Hale, is a little off. What a pity he had not been born a hundred years ago; he might have suited the times better. I hope the boys of Ontario are learning to plow for profit. and not merely past time, or rather to potter away their time. Think the ADVOCATE should not only advocate better plowing, but better plows also, because. This firm declare they are was a rule, they are far behind the American plows, reputation on these assertions.

BRANDON EXPERIMENTAL FARM REPORT :--Bromus Inermis is a very promising grass here. This did not winter-kill the least : grew thirty-two inches high, and yielded two and a-half tons of excellent leafy hay.

SUTTON & Sons, Seedsmen, Reading, England :-It is a perennial, and in our experiments has proved to be one of the earliest grasses to start in the spring. It grows with remarkable rapidity, and yields an immense quantity of succulent herbage. equally suitable for soiling or for ensilage. All kinds of stock eat it greedily, and the analysis made shows that it is richer in flesh formers than the Italian Rye Grass.

Russia, but is extensively grown of late in Austria. where it yields large crops of hay even in the most unfavorable and driest seasons. It is a perennial, spreading rapidly by means of its underground roots: the stalks are very numerous and leafy, attaing a height of from five to six feet.

This firm declare they are willing to stake their

Seed Catalogues for 1893.

Below we give the names of reliable seedsmen who have favored us with copies of their catalogues. Each firm will be pleased to send copies free upon application. Those of our readers who wish to get reliable seeds, or to know what new varieties are being offered either in vegetables or flowers, will find it to their advantage to send for these annuals, as each contains useful information which can be used to good advantage by the farmer and gardener.

J. S. PEARCE'S, LONDON, ONT., embraces field, vegetable and flower seeds; all the promising new varieties of spring grains and en-silage corn are offered. This firm has long enjoyed the confidence of the farmers and gardeners. A complete stock of dairy supplies is always kept on hand.

THE STEELE, BRIGGS, MARCON SEED CO., TORONTO, issue a very handsome and richly illustrated catalogue. This firm is noted for sending out the best class of seeds, keeping abreast of the times and testing everything new in grains, vegetables, roots, etc.

RENNIE'S

Illustrated Guide for Amateur Gardeners, issued from Toronto, still keeps up the high standard which it has attained in the past, and will be found to contain much practical information. This firm is widely and favorably known.

WM. EWING & CO., MONTREAL.

The annual catalogue of this firm includes not only select seeds, but also farm and garden supplies and tools. Their claim is that only seeds of good quality, and which have been tested, are sent out, while useless varieties have been weeded out and replaced by superior kinds.

D. M. FERRY'S

descriptive seed annual contains a complete assort-ment of vegetable and flower seeds.

A. G. HULL & SONS'

catalogue, from St. Catharines, contains a full list of fruit trees, vines, plants and ornamental trees. JOHN A. BRUCE & CO.

issue their 42nd annual spring catalogue. This announcement in itself is sufficient proof of the confidence which the people have in this firm. We have received United States catalogues from

the following firms :-J. Salzer Seed Co., La Crosse, Wis.; J. W. Livingston's Sons, Columbus, Ohio; Pitcher & Manda, New Jersey.

LOVETT'S Guide to Fruit Culture. This is the annual publication of J. F. Lovett Company, Little Silver, N. Y., and is one of the handsomest that comes to our office. This book presents the products of the well-known Rumson and Monmouth Nurseries.

The largest and one of the most attractive cata-logues received at our Northwest office is that of

RICHARD ALSTON, Royal Greenhouses, Winnipeg. Mr. Alston has made a new departure in the catalogue line this year, having numerous photo-engravings, illustrating scenes in his greenhouses and plants of his own growing. The particular lines listed are plants, bulbs, seeds, cut flowers and canary birds, but he claims special merit in supplying cut flowers in any desired style for weddings, funerals, etc.; also in roses, of which he has a wonderfully beautiful collection, Chrysanthemums, Begonias, Carnations, Gloxinias : and in vegetables, Alston's Early Manitoba Cauliflower. As an encouragement to his many patrons he purposes holding a Chrysanthe-mum show next November, offering liberal cash prizes. Mr. Alston has been winner of almost numberless prizes, and holds the only silver tup ever offered for competition in Winnipeg. Send at once for a copy of this catalogue, as you will find in it much to interest and instruct you.

Tomatoes in Canada.

(Written Especially for the FARMER'S ADVOCATE by B. Gott.) During the late few years the interests in "tomato rowing" have been very much more active than ever fore known in this country. Instinctively, being a little less Americanized than you are to the south of us, the essential love of the tomato did not easily come to us by way of inheritance, but it had to be brought to us by dint of progressive culture, like our love of grammar, and at last we have successfully 'learned to like it". Personally, I feel that in treating this subject I am not, according to the exhibition catalogues, strictly speaking within the proper range of my favorite culture. This has been the loved employment of my mature years, viz., fruit growing; but, on account of the tomato being of such general usefulness and enticing beauty, and, moreover, so much like an apple, I still, notwith-standing, almost invariably persist in classing it as a fruit, and I think you can hardly blame me for doing so. The essential qualities of the tomato which we look for, and which it must possess before it can be at all popular with our growers, are strictly the following: 1st, Earliness to the greatest possi-ble extent. 2nd, Smooth, round and beautiful exterior. 3rd, Proper uniform size and good bright color. 4th, Good quality as to flavor and texture of flesh; that is, the flesh must be pretty solid or meaty, as it is called—that is, not loose or watery. Each of these qualities is essential to success, and the more of them we can get combined in any one tomato the nearer that one comes to the top. In this relation we are very much pleased with the lass of tomatoes known as Livingston's, embracing his well-known Early Ruby, Paragon, Favorite, Royal Red, Beauty and Perfection. This class of tomatoes comes as near to filling the bill required as anything at present offered by any of the lists. Their earliness, their fine and tempting appearance and color, their agreeable flavor, and their solid meaty flesh, win for them golden opinion and general favor, and mark them out as possessing more good qualities than any other class of tomatoes in the market at the present time. Again, Ignotum has become of late years a great favorite with our growers, and to a very wide extent; and very properly so, for it possesses many very desirable and really good qualities, especially good shipping quali-ties, as well as size and beauty. It is early and a mode favore desirable color and fine favor and good cropper; desirable color and fine flavor, and good, solid, meaty flesh; good size, smooth and pretty, and is free from blemishes and rot. All these things are desirable, and, of course, count very decidedly for its general adoption. The Optimus, the Volunteer and the Dwarf Champion are also each and all of them good and serviceable varieties, and have already secured for themselves a very large place in the attentions of many growers. Indeed, so many really good and serviceable types of tomatoes are offered at the present time, possessing so many good qualities in general, and serviceable for almost every possible use and intention, and all doing so well in this country, that it is found a matter of extreme difficulty, when making up our seed lists, to properly choose between them, and to be sure we have what we want. I desire, however before closing this part of my paper, to say a word or so respecting the larger varieties of tomatoes lately coming to notice, viz., Turner's Hybrid, or Mikado, and the Ponderosa. The first of these is a great favorite over the extent of this country, and is rapidly growing to be more and more so, possess-ing, as it does, almost every desirable quality, either for domestic use or for the market. But for the latter and later claimant we seem for the present at least to have no place for it, as the bill is now better filled without it. Its behavior here, and under our conditions, is about as follows: It is of large size (far too large, as it cannot be carried without mashing and ruining itself), and if ripened altogether too soft in flesh; poor quality; bad, dirty color, and does not ripen evenly over the fruit, but will invariably remain hard and green over the stem side. Such qualities as these in a tomato will successfully spoil it for our uses. The Mikado, on the other hand, being quite free from all these grave objections, will supplant it and keep its own in spite of all the puffing that can be done for it. Indeed, the requirement is now not so much for an excedingly large tomato, but for medium size, smooth and solid, and possessing as good internal qualities as can be crowded in, and then put into the market in the easiest, safest and speediest way possible.

himself the early market before his neighbors have fairly got their eyes open. In planting out we would say, let the plants be placed on good ground, but not too strong, three feet apart in the rows, and the rows four or five feet apart, and set to each plant a good, strong stake four feet long. Train the plants to these stakes and fasten securely with bars; pinch all laterals, and allow only a certain amount of fruit for each plant, and the result will be very pleasing indeed. From our own personal experience in this matter this will produce the best results and secure the earliest, largest and best samples of these fruits that can possibly be realized. In the matter of markets, we would make every effort to secure those nearest to us possible, for the simple reasons that, being heavy and bulky, the transportation expenses will be less, and the fruit can be put into market in better appearance and condition. We would not advise saving our own seeds on a large scale, but in a small way, and for one or two years it may perhaps be safely done. To do this, select the earliest, the finest and best of the varieties desirable, and carefully separate the seeds into a vessel containing the purest rain water, and allow the whole to stand for a week or ten days, that all pulp may come to the surface, and the clean seeds will be found at the bottom free and nice. Strain off the top and wash in clean water, and dry in the sun on brown paper thoroughly, then place in paper bags properly labelled for next spring's use. These seeds will be equal to any seedman's and will have the further quality to you that you know exactly what they are. The methods of using tomatoes are many and various, but in this country the greatest bulk of them are used for canning, in either domestic or factory work. I may, perhaps, be pardoned for giving here my wife's method of can-ning tomatoes, as for some reason or other I have learned to relish and prize hers as something appe-tizing and rather better than any others I have been permitted to test. She selects good specimens, well and thoroughly ripened, of any of the varieties we grow, and in a large vessel pours boiling hot water upon them, and then removing the peelings she slices them into a large dish, or other open vessel, and allows them to stand so for some four or five hours and then drains off the surplus liquor. Then, adding one pound of the best granulated white sugar to every three pounds of the prepared fruit, the whole is boiled smartly for from thirty to forty-five minutes, and at once canned and sealed hot. If this process is well and properly done, and the fruit such as we grow in this country, the result will be very desirable and most acceptable for any season of the year for many months afterwards. I did not intend that all this as here pre-sented should apply to the whole wide extent of this country, but it is essentially true and applicable to the whole of this part of Western Ontario in which it is my good fortune to be located. This whole subject being as it is of such great commer-cial interest to this country, and realizing and recognizing you and your readers as leading authorities in it, we are at all times most pleased to receive from you any new or recent developments relating thereto.

Questions Asked and Answered.

Can you inform me through the ADVOCATE of any way to destroy ground moles? (I suppose that to be the name.) I find every piece of good, rich soil, especially newly laid down, they burrow it up in heaps almost same as if plowed.

AN OLD SUBSCRIBER.

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A particularly neat catalogue is that issued by

BRAXTON & BOWYER,

proprietors of the Fort Rouge Greenhouses, Winnipeg. As we were recently through the greenhouses of this enterprising firm we are able to testify as to the large and varied assortment of bedding plants, bulbs, roses, fuchsias, geraniums, etc., they have in stock. They will also have a great quantity of cabbage, cauliflower, tomatoes and celery plants of the choicest varieties. They speak very highly of their "Fort Rouge White Kidney" potato as being a "robust grower and very prolific." Their cata-logue contains much useful information.

Another interesting catalogue is that of

MR. A. BOWERMAN, WINNIPEG,

containing a list of his Northern-grown evergreen, forest, fruit and ornamental trees and shrubs. Those wishing to make their homesteads more attractive will doubtless take advantage of Mr. Bowerman's liberal prices and place their orders early. Nurseries and greenhouses are on Portage avenue. Write him for a catalogue.

One of the oldest established seed firms in the city, have just got out an illustrated catalogue and to the general public, and doubtless they are prepared to treat their customers even more liberally than heretofore.

J. M. PERKINS,

seedsman, Winnipeg, has issued a very neat catalogue, fully illustrated, containing much useful information as to the care and cultivation of flowers and vegetables, as well as a full list of seeds of the most desirable varieties. Mr. Perkins is increasing his business every year.

OUR METHOD OF CULTURE.

Sometime ago we took a sudden itch, a sort of furore for tomato-growing, and determined there and then to invest some labor and capital upon it. The result was an increased interest in tomatoes and tomato-growing, marketing, preserving uses, etc. Our method of procedure was as follows : Sow the seeds of the varieties desired in shallow boxes in the greenhouse early in March, and get the plants gardener's assistant, and will be pleased to mail copies to all who enquire for them. From personal experience with this firm we can recommend them to the good, strong, stalky and thrifty as possible, and plant out in the open ground about the middle of May, and so have them to come in for market about the last week in July or the first of August. This plan worked very well, but was with us quite risky, on account of late spring frosts about settingout time. But, to get over this difficulty, one of our most enterprising growers proposes to have cover boxes for shelter for each plant whenever frost threatens. His plan is to sow the seeds as described in early February, and plant out in the open ground in early April, and so protect and thus secure for | means for the improvements of our public highways,

We have never heard of any serious injury being wrought by moles in Ontario, and it is usually supposed that they more than make up for anything which they destroy by the destruction of quantities of vermin. Will any of our readers who are troubled in this way kindly give their experience?

Thorah Farmer would like to have some of our readers give their experience with tread horsepower in cutting feed, crushing grain, and cutting roots for stock, and if a two-horse power tread will give sufficient power. Also, their experience with windmill for same purpose, and what size wheel would be necessary to give sufficient power; and which power from their experience would they advise, considering convenience and cost, a beginner to get.

In your March number enquiries were made about fencing. I will endeavor to describe what I have found in my experience the best and cheapest fence. As the saying is, no one can talk on any subject better than those who have had experience. We dug holes 11 feet apart and 3 feet deep ; we used rails from the top of the fence for posts, cutting them in 8 foot lengths; then we laid two rails close to the posts, and then wired a small post on the inside; laid the rails between the posts five rails high, put another wire on the top, then one rail on the top of the wire, making your fence in all six rails high. As to filling posts on low, springy land, I would advise you to fill in with stone; on high, dry land, ground filling will do. Yours, SUBSCRIBER.

There's no politics in good roads. The question can be freely discussed without touching on any sore spots or creating any hard feelings. Whenever two or more farmers meet there should be started an animated debate on the subject of ways and

FARMER'S ADVOCATE. THE

LEGAL QUESTIONS AND ANSWERS. [Answers to legal questions of subscribers, by a practicing barrister and solicitor, are published for our subscribers free.]

To the Editor of the FARMER'S ADVOCATE.

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DEAR SIR,-Will you kindly answer the follow questions through your paper and oblige —A bought a piece of land of a company and hired B to break, backset and put in a crop on it. B has not break, backset and put in a crop on the B hold been paid. A offers B a first mortgage on this year's crop. If A gets into difficulties can B hold the crop against all comers (the company included) until it is returned? until it is returned?

ANSWER.-B's rights will depend entirely upon what agreements A has entered into with the company, and what rights A has given to the company. Before we can answer we must see the agreement or mortgage between A and the company.

GARDEN AND ORCHARD.

Spraying Fruit Trees.

The successful use of Paris green as a means of The successful use of Paris green as a means of destruction for the codling-moth and curculio is being further demonstrated each year by practi-cal fruit growers, who declare that the practice of spraying their trees makes the difference be-tween success and failure. Any fruit grower who neglects to spray his fruit trees is considered as foolish as a man who would grow a large acreage of potatoes and neglect to use Paris green on them to destroy the potato bug. To those who have never used it, but will do so for the first time this spring, a few words of explanation will doubtless be of use. For codling-moth, use 1 pound of Paris green to 200 gallons of water. Never spray while the trees are in bloom, for it will not only be a waste of labor and material, but will be liable to injure the blossoms at this stage. The law also forbids the use of any poisonous material on fruit trees while in blossom. The codling-moth deposits her egg in the blossom as soon as the fruit is set; in a short time the egg hatches and the larva works its way into the apple towards the core. To be effective the Paris green must be applied in such a fine spray that a portion will fall into the calyx where the eggs are laid and before the calyx closes with the growth of the fruit. Spray as soon as the blossoms fall and again in about ten days; two applications are usually sufficient, unless washed off by rains. For curculio spray as soon as the blossoms fall, and then two applications at intervals of about ten days, or sooner if rain has fallen. The mixture must be of less strength for plums, or the foliage will be injured. Use one pound of Paris green to 250 or 300 gallons of water. The different brands of Paris green will often vary so much in strength and purity that it is a good practice to spray a couple of trees, noting the result, and if any of the leaves turn brown use a less quantity of Paris green. As the Paris green does not dissolve, merely being held in suspension in the water, great care is necessary to keep the mixture properly stirred, for if this is not done the Paris green will settle to the bottom and the last of the barrel will be so strong that the leaves will be found to be severely burned. This is a convenient and well tried remedy, and there is absolutely no danger when ordinary care is used. A great deal of non-sense has been written about the danger of eating fruit which had been sprayed. Such statements are about on a par with the exploded notions that potatoes are rendered poisonous through the plants having been sprayed with Paris green. To test this matter the chemist at the Ottawa Experimental Farm analyzed a sample of apples which had been sprayed, but could find no trace of Paris green, though the process used would reveal so small a quantity as one fifty-thousandth of a grain of arsenic. Similar results have been obtained by chemists at the different experimental stations in the United States. Neither is there any danger to stock, for when four times the usual amount of poison was used on trees, Prof. Cook pastured sheep and a horse under them without injury. While spraying for the above enemies it was found that we were killing two birds with one stone, for all leaf-eating insects grew less, such as canker worms, tent caterpillars, web worms, Tussoc moth, bud moth, fern slug, etc. For insects which live by puncturing the bark and sucking the juice, spray with kerosene emulsion. The proportions are as follows:-One half of a pound of ordinary soap is dissolved by boiling in one gallon of water, and when it is boiling hot it is poured into two gallons of coal oil (kerosene), and churned with a syringe or a force pump, and in about five minutes it becomes thick and creamy; when this cools it consolidates into a jelly-like mass, which can be diluted with nine parts of cold water. Such insects are destroyed by the oily material filling up the air pores along the body, so that the insect cannot breathe. For plant lice spray whenever they are noticed in sufficient numbers to cause alarm. The Ovster-shell bark louse is one of the worst pests of the orchard, the more so because in many cases it is not recognized as an enemy until it has overrun the whole orchard. At this time of year it may be seen on the trees in the shape of a small elongated scale like a miniature oyster shell. This is really the dried up body of the female insect, beneath which will be found a large number of white eggs. In the month of May the young emerge from be-neath the scales in countless numbers. They are minute creatures, hardly visible to the naked eye.

They then climb up to the young wood, where the bark is tender, and through it they insert their little tube-like beaks, and never move again, but remain fixed by their beaks, sucking the sap out of the tree. They gradually secrete a waxy fluid which covers and protects them. Spray with kerosene emul-sion in May or June, after the young lice have left the parent scale, but before their own has grown so as to protect them.

Spraying with copper compounds for the pre-vention of fungus diseases is rapidly gaining in favor, and the value of these remedies has been shown, not only by the experimental stations, but also by the fruit growers in the improved quality and appearance of their fruit.

Prof. Craig, Horticulturist of the Experimental Farm, Ottawa, has published a valuable bulletin on Spraying for the Prevention of Fungus Diseases,

from which we take the following:— A complete spraying outfit, including chemicals, might be purchased by a person who would be prepared to spray under contract, by the acre, or at a stated figure per tree. If this system of combating fungus and insect enemies was introduced, it would obviate much of the prejudice and inconvenience now connected with the work, and spraying would probably in a few years, to the great benefit of orchardists, become the general practice.

Lime.	 08.
Danie Green	 Z.
Water	 gallon

This may be prepared by dissolving in a barrel, four pounds of powdered copper sulphate. In another vessel slake four pounds of fresh lime with as many gallons of water. Spread a piece of coarse sacking, held in place by a hoop, over the top of sacking, near in place by a noop, over the top of the barrel in which the copper sulphate has been dissolved. Strain through this the creamy mixture of lime and water. Paris green may then be added, after which the barrel should be filled with water. This forms an excellent insecticide as well as fungicide, and, therefore, useful to destroy Codling worm, bud moth, and canker worm. It should be used soon after being prepared.

2. AMMONIACAL COPPER CARBONATE. Copper Carbonate. Ammonia. Water. 5 oz.

easily applied, and is used as a substitute, especially in the case of grapes, where the Bordeaux mixture might, by adhering to the fruit, injure its sale.

It is prepared by dissolving the copper carbon-ate in the ammonia and diluting with water to fifty The concentrated solution should be gallons. poured into the water. Care should be taken to keep the ammonia tightly corked in glass or stone jars.

TREATMENT OF APPLE AND PEAR SPOT.

1. Before growth begins in spring, spray with a solution of copper sulphate, one pound to fifty gallons of water. On no account should this be applied after the foliage has appeared, as it will severely injure it. 2. Just before the blossoms open spray with

diluted Bordeaux mixture. Repeat this after the blossoms have fallen, and make a third application two or three weeks afterwards. If the season is wet and rainy a later application may be advisable. If Paris green is added to the two latter appli-

cations as recommended in No. 1., this will destroy the Codling moth also. GRAPE DISEASES-(Downy Mildew, Blackrot,

Anthracnose.) Spray the canes with copper sulphate, one pound to fifty gallons, before growth begins. Follow this solution with diluted Bórdeaux mixture (omitting

Horticultural Notes.

BY W. W. HILBORN, LEAMINGTON. All grape vines not already pruned should be at

once attended to. Spray your fruit trees this spring; it will pay you. Dissolve one pound of sulphate of copper in a barrel of water and spray early, or before the foliage appears. After the blossoms drop use the following formula :—Sulphate of copper, 3 lbs.; un-slaked lime, 2 lbs.; Paris green, $1\frac{1}{2}$ oz.; water, 22 gallons. Three or four applications should be made

at intervals of ten days or two weeks. Red Raspberries should be cultivated very early in the spring, and all suckers not required to form canes should be cut off as weeds as soon as they show through the ground; if they are kept well cut off early in the season there will be little trouble with them later on. This will apply to Blackberries as well.

Raspberries and Blackberries should be transplanted as early as possible to obtain the best results. If you do not get enough transplanted early, try leaving a few suckers or sprouts to grow, and when they are about one foot high, transplant some cloudy day. I have often had better success with this method than with the early spring setting.

If you wish to spray your trees or vines before the blossoms drop, leave out the Paris green. To spray for curculio, one oz. of Paris green to twenty gallons of water is sufficient. No good will result from spraying before the fruit is stung by the curculio, as it is the larva that must be poisoned and not the beetle that stings the fruit. You cannot poison the beetle.

Growing fruit at the present time requires much study. Insect enemies have increased to such an extent that only those who are willing to fight them can grow fruit profitably. Were this not true, everyone could produce such quantities that there would be no market for it.

Try an Essex guarded hoe; they are the best I have tried for all kinds of hoeing, where there are no large weeds; more work can be done in a day, and done better. They are to be had from many of the seedsmen now.

Ampelopsis Veitchii (Japan or Boston Ivy) is the best climber to cover a brick wall, it clings fast, and will cover a wall more evenly than any other vine; it also colors up beautifully in autumn.

Shaffer Raspberry should be more largely planted for family use. There is none more productive, and the fruit continues to ripen for a long time. The fruit, however, is a dull purple and rather soft, is not therefore desirable for market, except where you can deliver the fruit directly to your customers; then, when once known, it is sought after, especially for canning. The busy season for the farmer begins this

month, and too often the garden patch is left as a secondary consideration. It is the general belief among farmers that they have not time to plant and care for a good garden. This, however, is not correct. The farmer has time to grow what will pay him the best. Want of forethought and knowledge how to manage a garden is perhaps the greatest cause of failure to have them. While the garden may not be a direct source of bringing in the dollars, the whole family will receive a direct benefit which will equal more than twice that they will receive from the same amount of labor bestowed upon any other part of the farm.

Paris green) or ammoniacal copper carbonate immediately after the fruit sets. Repeat at intervals of three weeks, till the bunches begin to color. Ammoniacal copper carbonate should always be used for the later applications.

PLUM AND PEACH ROT-(Monilia.)

Without being fully tested, the following course of treatment is recommended for trial. Spray as soon as the fruit sets with sulphate of copper, three ounces to forty-five gallons; follow this with diluted Bordeaux mixture to which Paris green has been added, for the purpose of checking attacks of the curculio. If rot develops late in the season, as is sometimes the case just before the ripening of the fruit, spray again with sulphate of copper solution, or ammoniacal copper carbonate.

GOOSEBERRY MILDEW.

This disease can be effectually treated by using either ammoniacal copper carbonate or Bordeaux mixture (No. 1), but as potassium sulphide (liver of sulphur) serves the same purpose, is somewhat cheaper and more easily prepared, it is, therefore, recommended here. Dissolve eight ounces in twenty-five gallons of water.

Treatment should commence with the first signs of growth, and continue at intervals of ten or twelve days till five or six applications are made. SUPPLIES

Chemicals for spraying can now be obtained from most druggists. Pumps of all sizes are offered for sale by the leading seedsmen, dealers and manufacturers, at prices ranging from \$3.50 to \$10 or \$12 The barrel pump may be mounted on a stoneboat. cart or wagon, as convenience or circumstances may suggest. Such a pump may be fitted to a barrel and made ready for use at a cost not exceed-ing twelve dollars. The copper knapsack pump, so called because it is carried on the back of the operator, has a capacity of four or five gallons, and furnishes a convenient means of spraying low growing plants, such as grapes, currants, gooseberries and potatoes.

enough apart to cultivate with a horse. Select good seeds of standard varieties, and do not sow too thickly or the young plants will be so close together that they will not succeed, and there is little time to thin them when it should be done. No greater mistake is ever made than to allow the weeds to get the start of the vegetables. A steel toothed garden rake is the best hoe, if used just as the weeds are coming up through the ground. A man can do as much in one hour at this time with a rake as he can in half a day with a hoe after the weeds get up two inches high.

To start early Melons and Cucumbers, make a ew frames out of thin boards eight inches wide and just large enough to be covered with a 10 by 12 pane of glass. Prepare good hills by digging out holes one spade deep, then put in two shovels of well-rotted manure and thoroughly mix with good soil. Then draw over this good top-soil without manure to the depth of two inches, in which to plant the seeds. This may be done and the seeds planted a week or ten days earlier than it would answer to plant without the frames. In placing the frames over the seeds, slant them to the south and draw the earth up nearly or quite to the top of the box on the outside to keep out cold. After the plants come up they should be ventilated a little during the middle of the day, if the weather is warm. It is surprising how much faster they will grow under glass thus protected than they will row in the ordinary way. If planted too early, before the soil has warmed up, the seeds are apt to

PLANTING TREES.—The best time to plant a tree s just when they are starting into growth; at this time they are full of vigor, and every effort is put forth to make growth. If left a little later, or until growth has taken place, part of the energies has been expended, and the tree receives a shock just in proportion to the new growth made. Some trees start into growth much earlier than others, hence require to be planted earlier. Most evergreens are **APRIL 1, 1893**

THE FARMER'S ADVOCATE.

late starting and can therefore be left somewhat later. Many people have recommended June as the best time to transplant an evergreen, or when the new growth is two or three inches in length. It can be done at this time successfully, if careful at-tention is given, but it is not as good a time to transplant as stated above, just when growth be-Many trees fail to grow, from the fact that they have not had their roots protected from the wind and sun while out of the ground. It sometimes happens that the trees are shipped in bulk from the nursery with the roots exposed, but perhaps the greatest injury is done after the trees have been received at the nearest town or village where the agent has delivered them. I have often seen farmers go after their trees with a rig too small to properly hold them, and tie them on the back of the buggy, or put them in the wagon box with little or no covering, then tie the horses to a post, there to stand two or three hours while the family are shopping, then be surprised that the trees did not make a good growth; the greatest care in planting will not make up for thus exposing the roots. Ten minutes will sometimes so injure an evergreen, if exposed to a strong wind and bright sunshine, that it will either die or make such a poor growth that it will be of no use. Dig the hole large enough to admit all roots without cramping, cut off all broken or injured portions of the roots, and plant a little deeper than they were in the nursery. If the soil is at all moist use no water; when water is used, put it in the bottom of the hole and let it soak down before planting the tree, and not put it among the roots. If put among the roots it forms a paste or mortar that shrinks away from them when drying and admits air, just what we should guard against. If water is put on top of the ground after planting, do not allow it to come in contact with the trunk of the tree, but put it in a circle at a little distance away. Never allow manure to come in contact with the roots of any tree, plant or shrub when planting—use it as a mulch around the tree and work in lightly; this will hold moisture, especially if stirred frequently during the growing season. It is a mistake to cultivate deep around trees or plants.

Years ago nearly everybody had all the red currants they could use. At the present time I presume not one in fifty has a supply of them. Two enemies have attacked the bushes, which, no doubt, explains the cause. The currant borer, that goes through the heart of the branches and destroys them, may be cut out and burned. The currant worm, that eats up the foliage in a few days, requires watching closely. A tablespoonful of white hellebore, dissolved in a pail of water and sprayed over the bushes when the leaves have grown to about the size of a grain of corn, will prove an effectual remedy. By applying the hellebore thus early, the worms are easily kept in check. If this method is followed up every year, I have usually found one application each spring to be sufficient. With a little attention we can grow just as large crops of this fine fruit as ever.

VETERINARY.

Veterinary Questions.

Will you please inform me through your paper what will cure warts on cows' teats, and oblige, SUBSCRIBER.

Warts on cows teats are not usually troublesome, and in such cases are better left alone. They may be removed either by the use of the knife, or by caustic, as nitrate of silver or caustic soda.

DAIRY.

Branch Dairy Convention. One reason why the FARMER'S ADVOCATE has been able to accomplish what it has is because it goes regularly freighted with practical information directly to the agriculturist. Just so in dairying. The men who are handling cows or their products must be reached personally in order to awaken enthusiasm and effect improvement. The wisdom of the directors of the Western Ontario Dairymen's Association in holding branchordistrict conventions, four in number, this season, was more than vindicated, for example, by the immense gathering held at Tilsonburg. The large hall was crowded to the door, in fact a number were actually crowded out, and every speaker was given the very closest attention. Judged by these conventions and the local cheese factory meetings, the interest in dairying was never anything like as great as at present. The forenoon of the Tilsonburg meeting was spent by the visitors inspecting the premises of Mr. E. D. Tilson, whose mammoth new dairy and stock barn, with brick (cement plastered) siloes, will, when completed, be probably the most elaborate and costly in Canada.

President John Geary, of London, in his opening address, felt grateful that farmers were appreciating the efforts of the association. He expected that winter dairying would bring the export of Canadian butter up to \$5,000,000 or \$6,000,000 in a few years. This summer fifty or sixty cheese factories would divide the pay of their patrons by the Babcock test

Secretary Wheaton read a telegram from Hon. John Dryden regretting his inability to be present owing to the death of a relation, but conveying his best wishes and promising to render Ontario dairying all the aid in his power. Mr. Wheaton, who is doing excellent work as secretary, ably justified the continued need for this Association to promote dairying, to maintain the co-operative system, and to furnish the people information on new phases of the work. Since his appointment he had attended over fifty meetings, addressing some 4,000 patrons of factories. Everywhere he found an increasing interest in this business instead of selling raw pro ducts.

Mr. J. A. Ruddick, of Prof. Robertson's staff, gave the results of seventy-five experiments at the Perth Experimental Dairy Station, from which he drew the conclusion that paying for milk at the cheese factory by the fat percentage was a fair and just system.

The following table exhibits the result of his experiments, June, July and August milk being used:

Lbs. Milk.	, Fat.	Lbs. Fat.	Lbs. Cheese.	Lbs. Milk per lb. Cheese.	Lbs. Cheese per lb. Fat.	Price.	Value Milk
5,000	3.2	160	4521	11.03	2.83	913	\$.88
	3.3	165	4584	10.89	2.78	97	Ψ 100
66	3.5	175	468	10.67	2.67	10	.93
	3.7	185	477	10.48	2.57	101	
44	3.9	195	$503\frac{1}{2}$	9.92	2.58	101	1.03
	0.0		0002	0.02	2.00	104	

As 3.50 per cent. milk was the average quality

to decide. "How does my milk test?" (in addition to how much) is now the universal question. Prof. Robertson, the Dominion Dairy Commis-

sioner, recently returned from a trip to England, brought a hopeful message for the farmers of Ontario. Our cheese still holds its place of pre-eminence. The British consumptive demand is for finer foods-finer butter and bacon-for which they will pay handsomely. In view of the fact that 87 tons of butter, worth \$500, only took from the farm as much fertility as one ton of hay, sold for \$10, the dairy farmer really could not help producing wealth. The air was full of lamentation about agricultural depression in England and broken-down farms; but on land not any better naturally as much rent as \$10 per acre was paid and the tenant was prospering, because of more intelligent methods and a change from continuous grain selling. He urged the necessity for improved and better equipped factories, and recommended makers this spring to thoroughly sprinkle the interior (ceiling included) of their make rooms with a solution of bi-chloride of mercury and water, one part of the former to 4,000 of the latter. They should be careful not to over ripen the milk. A large sized cheese (68 to 70 lbs.) was wanted. Bandage should be a little smaller than the hoop. Strong boxes should be used and about twice as many nails as usual, as there were great losses from breakages. Make them neat and close fitting. The brands should be neat also, 4 or 5 inches long, the letters about ³/₄ of inch in length. The word "CANADIAN" should be branded on the side of every cheese, so that we may get the full benefit of our reputation. Stencil the weight on the box. By the use of numerous charts he outlined the subject of animal nutrition and the feeding of dairy cattle. The main point was to keep the cow's skin in good condition, supplying her withsuch foods as will promote the largest flow of the best milk of which she is capable. He announced that enough seed for 2½ acres, at a cost of about \$2.60 or \$2.70, of the new (Robertson) ensilage combination would be distributed (freight paid) to farmers applying to him by letter or card at Ottawa. It consisted of corn and English horse beans sown together, and Mammoth Russian sunflowers, making a perfectly balanced food and mar-vellously cheap. In a test at Ottawa, increasing the meal in a ration fed cows (prior to test under good feeding) had not been followed by an increased fat percentage in milk. The cheapest silo, and one he recommended, was single boards (tongued and grooved) inside the studding, tar paper being put under the boards outside the studding. Covered the silo with 2 or 3 inches cut straw, and longer straw above that. Twice as much butter was made at the Mt. Elgin and Woodstock creameries this winter as last. One patron, Mr. Price, reported that the skim milk paid for all the extra feed he had to give his cows in winter, so that he had the butter money clear. Shallow pans would take more cream out of "stripper" milk than deep set-ting, but adding "fresh" cow's milk would facilitate creaming.

[Ordinarily, however, farmers would do well to bear in mind that they will have their cream in far better condition with less work by deep setting. We

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I have a yearling heifer which has an enlargement on the side of the face about the size of an egg; it is hard and movable. I do not think there is any matter in it, can't say how it came. looks something like lumpy jaw; if you think it is, would it be wise to keep her for a cow or not.

Yours, W. C. WATSON.

There are two general methods of treatment:-The tumor may be removed either with the knife or by the iodide of potassium treatment.

The removal of the tumor by the knife can only be accomplished in the earlier stages of the disease while it is small and before the bone is diseased. The whole of the tumor must be removed, and some anticeptic dressing used. A good one is corrosive sublimate, one part to a thousand of water. If care is taken to remove all the diseased tissue, a complete cure may be expected.

The iodide of potassium treatment consists in the internal administration of the iodide of potassium in doses of from two to three drachms, according to the size of the animal. In the course of a week the usual signs of iodism occur, such as discharges from the nose, weeping of the eyes, and scurfy appearance of the skin. When these symptoms appear the medicine should be discontinued for two or three days, when it may be renewed for a week, and so on according to the progress of the disease. If the animal will take the iodide of potassium in its feed it may be given in bran mash; if not, it will be necessary to dissolve it in a pint of water, and give as a drench. We would advise drenching, for the practice of administering medicine in the food will often prevent the animal taking sufficient nourishment.

The treatment of this disease is so often unsatisfactory that, unless the heifer is a very valuable one, we would not advise kéeping her for a cow.

The above will also answer Mr. Quail's question. We would like to hear from any of our readers who are trying the iodide of potassium treatment as to their success.

used in these experiments the price of cheese made from 3.50 milk was fixed at ten cents. Prof. Robertson's estimate is that every two-tenths of one per cent. increase in fat in milk increases the value of the cheese one-eighth of a cent per pound. The difference in quantity of cheese alone would not make quite the difference the table shows. As a striking object lesson he displayed on the platform two cheeses, one made from 700 pounds 3.2 per cent. milk, the other from 700 pounds 3.9 per cent. Both were made in the same way by himself, about the same time, contained about the same amount of moisture. At three weeks old the 3.9 per cent. cheese weighed 721 pounds, while the 3.2 per cent. cheese went but 61 pounds. That the former was several inches larger was evident to everyone in the hall. The fat lost in the whey was not in proportion to the fat in the milk. As a rule the richer milk was more easily worked, being in better condition through having been well stirred and aired. Good milk and good dairymen went together. Patrons should be particular to stir the evening milk thoroughly, else the cream would rise and become leathery, part of it being lost, and so a proper sample of it would not be got for the Babcock. He took samples every day and tested once a week. The maker would need some extra help, and the apparatus would cost about \$30 and the acid \$10 per season. On the whole the rich cheese did not shrink so much. Took milk samples from weigh can with small dipper holding about a gill. This system would prevent adulteration. It would tend to improvement, that was sure, and consequently there should be better returns. No one desired to force this plan on the patrons; it was a matter for them farmers of Oxford on their progress.

would not advise any one to discard deep setting in favor of shallow pans, especially in winter. Better have a fresh cow coming in now and then through the winter.-EDITOR.]

Mr. E. Caswell remarked that the short, fat, chunky hog would not bring the long price. The Canadian Packing Co. preferred the medium York-

shire style of hog, not corn fed. Mr. John S. Pearce entered a strong protest against the cry of "hard times" among farmers. He took a more hopeful view of things, and urged progress and improvement. If certain farmers were hard up it was probably because they had not kept pace with the times. Many did not raise as much wheat per acre as their fathers did, while they were living far more expensively. They should in-crease the grain yield and the capacity of their herds, and cheapen production, as they could not regulate prices. Mr. Macdonald, Superintendent of the Geary

Butter Factory, alluded to the wonderful strides made by Quebec in cheese making, intimating that Ontario would have to look to its laurels sharply. What was called the "Canadian Jersey" of Quebec was not a Jersey at all. She was a small cow, entirely black, giving very rich milk. He tested one going 8 per cent. fat. They were descended from the ancient Brittany cows. By richer feeding a farmer could get more milk, and so a greater quan-

tity of butter. Mr. Andrew Pattullo, of Woodstock, spoke vigorously in favor of improved methods of road making, such as grading, draining, beautifying the sides, making repairs when needed, and the more general use of road machines, stone crushers, etc. He suggested that the men who were responsible for piling huge piles of boulders (called gravel) in the middle of the roads in Oxford this winter should be arrested and fined.

Dr. McKay, M.P.P., of Ingersoll, also spoke in favor of better roads, and congratulated the dairy

POULTRY.

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Poultry on the Farm.

BY IDA E. TILSON, WEST SALEM, WIS. I went out among my neighbors lately, and, by a sort of natural selection, the topic of poultry culture everywhere came up. Two of the daughters of the land were found pounding up old dishes for their hopeful biddies, wherein I commended them. adding my usual cautions about such dangerous work. A very rough and wasteful woman, however, would be required to furnish useless crockery enough for any kind of a flock, hence I have had recourse to chips from the marble works: they break about as easily as crockery does, and are much relished, being both grit and lime. Of course, a solid hard-wood block, a thick, flat stone, or some like base must be secured for our pounding operations. In New England are regular manufactories of grit, which works up some surplus rock. Unless biddy has gravel to separate and grind her food. this latter may easily become a clotted, compact mass, sealing the openings from crop and gizzard. Leg weakness, though sometimes caused by accidents and injuries, usually results from indigestion: so I have cured cases both of bound crop and of leg weakness by simply placing afflicted fowls in a little pen containing nothing but gravel and water. Gentle kneading also helps such a crop, which, if gassy and bloated, can be reduced with a small soda pill. I was asked whether bran packed and produced such conditions. If it constitutes not more than one-third of any pudding there can be no danger.

Let nothing be an exclusive diet, but everything tried if you would meet each fowl's appetite and case. For instance, the other day I fed a pudding composed of bran, shorts, oil meal, corn meal, ground oats and barley, a little of Pratt's poultry food, salt, red pepper, a few table scraps, and a lot of refuse honey (since hens like sweets), which to gether proved the most "fetching" dish I had pre-sented. It gathered my whole flock. Every hen could find something within that suited her, and was pleased. I am often asked about poultry "foods" and condition powders. Probably any standard kind is good, used carefully, but I think they are primarily designed for lazy folks, who rather buy than invent variety. Some have an impression that the abattoir lard-scraps I recommend may be too Heavy presses make such hard cakes of greasy. Heavy presses make such hard cakes of them, they must be chopped with an axe into available pieces again. I cook with considerable water, and when soft and separated stir in meal till thick, and feed only twice or thrice a week. Home-made scraps are, of course, much richer, because sub-jected to less power. Crumble the latter fine, and mix a little in each pudding. One lady desired a remedy for soft-shelled eggs, which answer in a nut-shell, (or more properly egg-shell this time) is less grain and more diversity of food. Limed water made about the color of rice will cleanse biddy's interior, and furnish some needed material : give for a while only, and but every second or third day. Lime water is another of those things so good I got to overdoing it, till I found, according to homeopathic belief, that persistent use brought back again the very bowl and other complaints which at first cured. Milk is full of the soluble salts of lime. which scientists have claimed is not the case with bone meal. Whether I feed the latter or not, my hens get so much variety I am rarely troubled by soft eggs, but, after repeated tests, am convinced the use of ground bone secures more eggs in number. Another lady visited had accidentally raised early pullets last spring, and received, to her surprise and pleasure, plenty of eggs this winter. which experience might be entitled "A Lucky Accident," like a more ambitious story. Summer chickens may get the size, but do not compass the maturity. To show, however, what judicious feeding can accomplish for these late pullets. I will add that a few July chickens of my own raising laid as soon this winter, or even sooner, than those purchased of May hatches. Early pullets, built upon bone meal, milk and all kinds of food, but not stuffed with corn, will prove an irresistible combination. and show the old rooster something worth while to crow about. Mr. Gregory, the Mass. seedsman, whose nine hens averaged 174 eggs a piece in a year, secured the best egg record I have met. His fowls were mixed Brown Leghorn, Brahma and Plymouth Rock. Fanciers think too much of symmetry, and not enough of laying qualities. They have inbred for form at the expense of vigor, and the story is told of a Java hen, marked perfect at an English show, whose owner would give no egg record till taunted that his beauty was barren, when he hastily replied, "Oh, no! she has laid one egg." When laying days are over, however, a mixed flock is not so saleable as a uniform lot. An old poultry woman told me she made her money by cross-breeding for eggs. then dressed her surplus fowls before sale, because in that condition, minus top-knots, pantalets, etc., their remaining differences were slight and almost unnoticeable. It must be admitted that fanciers are now turning more attention to laying qualities. and cross-breeding, which requires judgment too, has different degrees of success.

Because I am writing about poultry on the farm, instead of a poultry farm, I will again describe my simple method of setting hens, premising that "Farm Poultry" briefly answers a subscriber by saying he must have an incubator to raise a large number of chicks, but an incubator to raise a range mended to anyone, and a brooder is not all bliss. The platform on which my movable nests rest is wider than the nests themselves, and provides biddy a lighting place. When she sets, an upright shingle, wider than nest entrance, is held in place before it by a brick resting on this platform, and thus forms a door which a setter can push outward, but nobody can push in. Hens fastened so they cannot get off at all will, from sheer contrivances. stand up, as two chicks put on choice eggs once served me. My temporary doors prevent outsiders laying with them, unless the setters themselves come off and out, which is seldom, and careful watching the first few days succeeds better than too much 'bossin'.

Poultry as a Branch of Canadian Farming. BY GEO. NICOL, A. O. A. C.

The breeding of domestic fowls commenced at a very early date, and wherever the art of farming has been introduced there we find in some way associated with it the breeding of poultry. Yet it seems that the majority of farmers keep fowls chiefly because of the satisfaction they afford by furnishing supplies of excellent food for home consumption. lot of honey left in the hives, wished to know how while but comparatively few have studied poultry breeding and raising as a special branch of husbandry.

It is quite evident that we, the farmers of Ontario, have not fully availed ourselves of the benefits that might be derived from this important is one of the chief causes of lowering not only the branch of agriculture.

The annual poultry products of France are estimated at \$200,000,000, twelve million dollars' worth much more than a quarter of a century ago, neither of which is exported to Eng and, while in the "the "strained" honey nor the comb honey was United States we find that the poultry products ex- at all equal to the honey of to-day. Not that the ceed in value the entire cotton, corn, wheat and nectar of the flowers was different, but the manner hay crops, and are estimated at over \$500,000,000 annually. Yet, notwithstanding this large produc- reached the table was so differens that while the one tion and high tariff, that country imports from was in those days passable, the scientific out-Canada a large quantity of poultry and eggs.

At the present time in some of our markets good beef is being sold by the carcass as low as four cents per pound, while all kinds of poultry find a ready sale at from eight to ten cents per pound. Sta'e eggs are not and cannot be worth much in any market. but fresh eggs are always in demand. I know of farmers who have no difficulty obtaining contracts for the supply of fresh eggs at thirty cents per dozen.

Eggs to the amount of 2,000,000 were exported from Canada to the British markets. I have not heard the results, which would doubtless depend very much on the temperature of the storage, as eggs and slaughtered fowls can be kept in cold storage for almost any length of time, but if kept in a tem-perature much above the freezing point they soon become unfit for human food. There is much difference of opinion in regard to the value of different breeds of fowls. It has not as yet, and doubtless never will be, decided which of the many varieties is the most profitable under all'circumstances; there seems to be a prevailing desire for a general purpose for d, and marked with the second seco

Poultry Question.

To the Editor of the FARMER'S ADVOCATE. DEAR SIR, -Can you tell me through the Advo-CATE what will stop our hens eating their eggs? I believe they eat more than we do.

Yours, etc.. SAMUEL WHITTOCK Glen Adelaide.

APRIL 1, 1893

[This is a bad habit, and once formed is difficult to break off. It is generally caused by a want of lime or of gravel, or from fowls being kept in idleness, with open nests left in their feeding quarters. To prevent the habit from being formed, remove the cause-provide a plentiful supply of gravel and sand and lime, vary the food, and while the fowls are kept indoors, cover the floor with chaff, scattering grain among it, which will give them good exercise and keep them out of mischief. Provide nests in a darker place and apart from the feeding room.

APIARY. The Apiary.

BY ALLEN PRINGLE, SELBY, ONT, WHAT TO DO WITH HIS HONEY.

The Glengarry correspondent mentioned in this department of last issue, who had lost most of his bees during the protracted cold weather, and had a to handle the honey to the best advantage. One thing is certain, such honey taken from the hives of dead colonies is never number one in quality, no matter whether it be clover, basswood, buckwheat, or other. The placing of such honey on the market reputation but the character of honey among consumers. Before the days of the honey extractor, not of its getting from the flowers to the time it put in these days passade, the scientific out put in these days is simply superb. "True, the comb honey, secured in "caps" in those days (and still so secured among the old-fashioned bee-keepers) was, and is, in some cases where the queen does not choose to turn the "cap" into a brood nest, a good article, which, however, is the exception, But the "strained" honey! From it "Good Lord deliver us "from the eating, who have had our palates tickled by the "pure quill"! Of course, "where ignorance is bliss, 'tis folly to be wise;" and that "strained" honey was enjoyed by our grandfathers with the keenest kind of relish ! How was the stuff made? Why, when the bees died in the winter or spring the honey was cut out of the hives -that is the combs were all cut out, honey, beebread, dead bees in the cells, dead larva and all and this conglomeration was duly mixed up and cut up and squeezed, and put into a linen sack and hung up by the fire place to drain and "strain." Every now and then the aforesaid sack would get

Rock, Wyandotte, Langshan, and other breeds have been produced by crossing.

As a fancier, although discountenancing cock fighting, I would prefer the Game on account of their noble carriage, graceful appearance, and the xcellent quality of their flesh and eggs.

If the production of eggs were among the leading bjects I would prefer the Leghorns, the Spanish or the Hamburgs, because they lay a greater number of eggs than the Asiatic breeds. When the raising of chickens for market is the chief object, it is not by any means a fact that the largest kinds are the most profitable, because the amount of food con-sumed by them is about in proportion to their size. The Brahma and the Cochin chickens, where the chief bulk consists of neck and legs, are not worth as much in any market as plump birds of more moderate size.

Aside from direct profit which may be derived from the sale of poultry productions, the use fowls on the farm, and especially in the orchard. now that insects injurious to fruit have increased to such an alarming extent, is of great importance.

During some months of the year the food turkeys, when allowed a large range, is chiefly insects, and on them they grow faster and thrive better than when fed and kept on grain in limited space, hence on many farms turkeys are profitable stock.

In all large cities the increased demand for geese and ducks has caused a considerable advance in price, and although all farms may not be adapted for raising this class of fowls, still wherever there is a constant supply of water they can be produced with profit, and the supply is not likely to exceed the demand

Taking all things into consideration I doubt that there in any department of the farm which gives more satisfactory results than the production of poultry and eggs

fowl, and with that object in view the Plymoth for the gods and men or angels and women of those Sometimes a little better article of the days! strained honey would be obtained, when in the fall a certain number of the weaker "skips" would be "taken up"-that is, doctored with fire and brimstone (what did the poor bees do to deserve this), and as the honey combs thus obtained were usually free from brood, being late in the season, the strained honey therefrom would at least lack the one flavoring element of " bee-juice.

But, in contrast to all this, how is our present day liquid honey obtained ? From clean combs in top stories, from which the queen with her brood is xcluded, and from which the bee-bread is excluded, and everything foreign to the pure honey. Then the combs, instead of being mashed up and squeezed. are simply uncapped with a sharp knife made for the purpose, and a few revolutions of the basket of the honey extractor, in which they are placed, suffice in obedience to the centrifugal force to throw he honey out of the combs clear, pure and nice. The comb honey, too, being 'secured in supers above the brood nest, from which the queen is excluded by a honey-board of perforated zinc, is much superior in quality as well as appearance to that from the brood chamber of box hives, travel-stained The question and mixed up with the brood comb. of our correspondent, what to do with the honey from his dead hives is easier asked than answered satisfactorily to him. As already intimated such honey ought not to be placed on the market at all. especially in the hands of dealers. What you cannot use yourself sell directly to the consumer as a second class article, telling him, unequivocally, how it was obtained. Never mind "straining" it : give it out just as it is in the comb, so that the buyer may see just what he is getting. If he chooses to strain it, let him strain it. If he should happen to he foud of bee-bread and bee-juice mixed up liber-

ally with his honey a sort of hash let him suit bims bland solvedy will be to blame.

FAMILY CIRCLE.

A Birthday Greeting.

What shall I wish thee for the coming year? Twelve months of dreamy ease? No care? No pain? Bright spring-calm summer-autumn without rain Of bitter tears? Would'st have it thus, dear friend? What lessons, then, were learnt at the year's end?

What shall I wish thee, then? God knoweth well If I could have my way, no shade of woe should ever dim thy sunshine; but I know Strong courage is not learnt in happy sleep. Nor patience sweet by eyes that never weep.

Ah! Would my wishes were of more avail To keep thee from the many jars of life! Still, let me wish thee courage for the strife, The happiness that comes of work well done, And afterwards the peace of victory won.

THE STORY.

Mrs. Goldenrod's Boarder.

Of all the boarders I ever had, none ever interested me like Gentleman George, as we always called him. Who he was, or where he came from, we could not tell. He rang our bell one terribly stormy night, and there he was, standing out in the wind and rain.

where he came from, we could not tell. He rang our bell one terribly stormy night, and there he was, standing out in the wind and rain.
"Can you acommodate me with a night's lodging?" he asked.
And he looked so poor, and sick, and tired, that Matthew (that's my husband) said, "Let him come" in Maria; he has an honest face, and we'll take the references on trust." So we gave him a little room on our third floor back, not much more than an attic, and quite plainly furnished; but he seemed very grateful. And though he brought nothing with him but the clothes he had on, there was something about him that impressed us, and told us clearly as though it were put into words, that he was up birth and education a gentleman.
He was quite young, not over three and twenty, though he looked much younger; and that very night he was took/ down with a fever, and Matthew and I together nursed him for a little over six weeks, (fortunately there were few with us, and we were not very busy just then.) Terribly bad he was, and wandering in his mind for days at a time. Strange things he talked of, disconnected sentences, not often easy to put together, and mixed in with a great deal that was wild and imaginary. He spoke as though he were sorry for himself, and low and lonely; as though every man's hand was against him. But I couldn't believe any bad of him. His face was so pure and innocent like, yet so haggard and withal pretty as a picture.
We watched over him through all the long hours of those weeks, which he spent in feverish unrest and delirium. It seemed to us that he world, bewildered expression in his wide open, beautiful blue eyes, said:
"Where an If How long have I been here?"
"You are anong friends," I answered. "And have been here a matter of six weeks or so."
He started as though I had killed him almost, saying, "I haven't a dollar in the world. How can I ever repay you?"
"Don't you worry about that," said I. "All you have todo is to get well, then it will be ti

appear different." Watte a nittle while and everything will appear different." He shook his head, and I looked the other way and pre-tended not to see, for there was no use talking to him; but it made my heart bleed to see him so hopeless. It was only a day or so after that when Matthew says to Gentleman George, (And me in the room with my sewing. I took it up to sit with him, less he should feel lonely). "Is there any friend that you like to send word to about your illness? Eve had it on my mind to ask, and if so be—" "I have no friends," he replied hastily, turning as red as Polly looked standing over the fire. "There is no one who cares to hear of me." "That's very bad. You're young to be so alone in the world, and you look to be just the sort of man calculated to make friends."

make friends." "You're mistaken, Matthew. I'm just the sort to loose 'em," he replied with a faint laugh that somehow sounded sadder than funereal words. And I just made a sign to Mat-thew to say no more. Matthew is well meaning, but not always quick to see when he is on the wrong track, and most prone to words that are least appropriate. Men are mostly so, especial-ly those who have followed the sea. Among polite circles, it may be different. "All right my dear I won't say any more" answered

Well, he didn't come home to supper that night, and it was the first time he'd missed since he'd been in our house and Matthew hadn't seen anything of him either. "He must have gone out to the new works at Martinsville, and that's a long way," said he. "I daresay he thought he might get a job there."

and that's a long way," said he: "I daresay he thought he might get a job there." That seemed likely enough, so I thought no more about it. But the children were greatly disappointed when he did not come in ; they were all exceedingly fond of him. It began to grow dark, and still he did not come. I grew uneasy, wondering what could be keeping him, for he wasn't overstrong yet. It must have been near nine o'clock, and dark as pitch, when I heard a step crossing the lawn in front of our door, and I says to Matthew, "There comes Gentleman George," when in he comes, and I saw at once that something good had happened, there was such a laugh in his eyes, and he carried his head so high. "There Mrs. Goldenrod," said he : "there's the first instal-ment, and I hope to pay the whole of my debt before long now." And with that he hands me one dollar and a quarter, and I didn't know whether to laugh or cry, between the money and the look he gave me and all. "Thank you, George, "said I, "you've always been welcome to the best we could give you, and if we had never seen a penny of your money, we should have never felt different. Have must not strong enough for that." "No, they haven t taken me on at the Works," he answered smilling: "they never had the chance, Mrs. Goldrennod, so we must not strong enough for that. "No, they haven t taker me on at the Works," he answered smilling: "they never had the chance, Mrs. Goldrennod, so we must not strong enough for that. It's quite another line Tve gone nto. I'll tell you about it after supper. You'll give me some-thing to eat, I suppose, though I'm awfully late." We sat down to supper, and soon as we had done, Gentle-man George says. "I hope you won't object to a little music now and then of

man George says, "I hope you won't object to a little music now and then of an evenings, I've brought home a violin.," "Where did you get that, George?" asked I, wonderingly. "You're thinking my first day's work has been pretty well paid for. You're right; yet not altogether as you think...But never fear; all that I have brought home has been honestly come by." come by "Don't think that I questioned that for a moment, George:

"You wouldn't have been the first to do it if you had," he answered, quiet like with a little laugh, though not as if he were enjoying himself much. "You and Matthew trust me, don't you?"

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don't you?" "Of course we do." said Matthew; and I added, "absolutely and entirely," wondering what was coming next. "I'm glad of it." Gentleman George had a pleased smile. He wasn't smiling when he said that, yet I never before saw him look so pleasant. "It does me good to hear you say that, and I shall not forget it in a hurry. Now you must hear my violin." He took it up and began to scrape away, quick at first as if he was a bit put out; then beautiful, and slow, and feeling, so that it almost made us cry. so that it almost made us cry. "How beautiful!" we both exclaimed, soon as we could get

our breath.

The provide the second exclamed, soon as we could get our breath.
"You like it, do you? I'm terribly out of practice, or—Hallo, young people, what do you want?"
There, standing in a row behind him, with their fingers in their mouths, and their bare feet on the cold oil-cloth, were the three children. As soon as he spoke to them, they began to laugh, and Polly said in her baby way,
"We's come to pitty moosic. Make it again, George."
"No, no, not to night," he says, catching her up and kissing her. "George has been making pretty music all day, and he ss tired, he wants to go to sleep, Polly."
"Polly ants to go to sleep too, but pitty moosic 'aked her up."
"It won't wake her up any more to night: I'll carry her up stairs, Mrs. Goldenrod, if you'll trust me so far, come along, you small fry." And off he marches with our Polly in his arms and the boys following 'ard aft is heels, laughing and chattering'like a couple of magpies.

"And now you can guess what I've been doing all day," said Gentleman George, when he came down again, and was

said Gentleman George, when he came down again, and was standing by the fire. "You don't mean to say-" And I pointed to the fiddle. "That I've turned fiddler! Yes: I'm first violin in the band that we've heard playing about town the last few days. That's my new position, Mrs. Goldenrod. And he laughed a queer sort of a laugh. We're all Germans, yet not exactly brass. We're a sort of peripathetic band, constructed on improved principles, and we have a singer or two among us as well. You, must come down on the beach one of these mornings and hear us. The gentleman that played 'the fiddle," and he laughed again, "had an accident last night, and won't be able to leave his bed for weeks, poor fellow. I heard of it, and offered to take his place. As they had no one else, and my playing hap-pened to please them, they weren't particular about re-ferences. It seems that references don't count for much in a peripathetical band. Anyway I am regularly engaged, and we expect to make lots of money; so I'm told." "Dear me;" said Matthew with a grin, and, "Do you like it, sir?" said I, for I was fair taken back to hear him, and it seemed a queer sort of trade for Gentleman George. "Like it? No. I don't know as I like it.", he renlied slow

"Do you like it, sir?" said 1. for 1 was fair taken back to hear him, and it seemed a queer sort of trade for Gentleman George. "Like it? No, I don't know as I like it.", he replied slow and thoughtful. "I should have preferred something less public and without a uniform. We wear a uniform, of course. It is pretty but at tracts more attention than 1 like, being a quiet man; and I find it a little trying. But the work is light, and beggars shouldn't be choosers. Oh, I shall get along very well with the fiddle and the coat of my friend Fritz. I ought to thank my stars that I've dropped into such an easy berth." Well, the long and the short of it is, that if Gentleman George didn't like his work he never said a word of complain-ing, and weeks went by, and the season changed, and still he was out day after day, wet or fine, a fiddling away with the rest of them. It gave me quite a turn the first time I saw him. I came upon the band round a corner, sudden like, and there was Gentleman George standing in his uniform coat of green and red, his fiddle on his arm, scraping away like mad, and a crowd looking on, and a couple of girls dancing pear the gutter. He gave me such a look when he saw me that I did not know whether to laugh or cry: but, as I said before, he never com-plained, and while he set us laughing, children and all, with the stories he'd tell of his "experiences," as he called them, and mighty queer experiences some of them were. [TO BE CONTINUED.] **Varieties.**

THE QUIET HOUR.

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A Thought.

God knows success is sweet. And yet He thought Not best to give the long-for boon to all, Lest the desire to win it had been small, And His most wise design been set at naught.

By contrast's law our estimates are made ; There were no beauty but for ugliness ; No grandeur but for littleness ; and less Of joy in heaven's sunshine but for shade.

So, friend, if you, or I, must work in vain, Remember that but for our fruitless toil Success had missed some portion of her foil. Let that thought blunt the stab of failure's pain. CARRIE BLAKE MORGAN. —From Demorest's Family Magazine for March.

Attractions of the Bible.

As a book of religion, around which cluster all our hopes of immortality, the Bible has merits of the very highest order; and these, with every serious mind, will be, as they ever ought to be, its greatest attractions. But, aside from the religion which it reveals to us, and the good news of salvation which it brings us, the Bible has other attractions. It is the book of our learning, not less than our religion; the basis of our civilization, not less than our salvation. It is the charter of our rights and liberties, as truly as it is the oracle of our faith, the manual of our devotions, and the anchor of our hopes. It has moulded into shape, and it has quickened into life, the whole body of our secular learning, as well as our theology. It has breathed its own vital spirit into all our science, literature, legislation, philosophy, social and political institutions. It has led the van of ancient and of modern civilization in its march around the globe. It has been the great well-spring of living water, out of which have issued all the glad streams of intellectual and moral health, that are now found flowing in every civilized land beneath the sun. Thus far, it has been the great educator and civilizer of man ; and it is, doubtless, destined to be his greatest educator in all time to come, his most effective civilizer in every dark abode of heathenism throughout the world.

But, whilst it is chiefly as a book of religion, and especially of religious education, that the Bible has spread civilization among the nations; still it is true, that regarded simply as a book of learning, of taste and genius, of history and eloquence, it has exerted an influence which cannot be too highly estimated. As such, it has claims which commend themselves to every cultivated understanding. In-dependently of all its higher glories—the knowledge which it gives us of the way to heaven, and the hope with which it inspires us of a blessed immortality-there are attractions which may be felt and appreciated even by the irreligious and the worldly-minded.

As ancient Israel was the glory of all the earth, Jerusalem the glory of Israel, and her temple the glory of Jerusa'em, even so is the Bible now to Christianity, and to the world. It is the most glorious outward and visible heritage which has come down from the past. It stands to the Christian and to the church as the temple did to the Jew. It is the throne of power. It is the symbol of all greatness. It is the shrine of all good.

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If those who have followed the sea. Among point circles, it may be different. "All right, my dear, I won't say any more," answered Matthew aloud, like a great gawk. And he got up and went away. With that I drew near and hegan to talk to him of something else, that the poor fellow might think I hadn't noticed what was said. But it was of no use. He had been set to worrying, and in a minute or so he began again. "You've been very kind to me. You've took me in a perfect stranger, and looked after me as well as my own mother could have done. I was wrong when I said I had no friends. If you and Matthew aren't friends, I don't know what to call you, and I never can find words to thank you." And he held out his hand to me. Such a white hand as it was against my brown, rough one, and so thin that one could almost see through it. "Thanks are all that I can give you just now," he went on, steady like, "but if I am spared to go out again, I will-repay you somehow for the money I have cost you. The kindness I can never repay." never repay

never repay.
"Don't you worry about that, sir," says I, "but ——""
"Don't call me Sir," he said quickly, "my name's George, and the only friends a man has can surely call him by his name."
That is the way we came to call him Gentleman George not to his face of course : but when we spoke of him to others

He gained strength pretty steadily after that, and in a week or so was able to get up and about. Right glad I was to see him walk down the street of a morning with Matthew, a tinge of color gradually making its way into the face that had been so white, and his head held high like one who had nought to be ashanood of ashamed of

so white, and his head held high like one who had nought to be ashamed of. Then for a few days I scarcely saw him at all. He was down by the Harbor trying to get work, and among so many rough, hardy, sturdy looking men, he stood but a noon chance. It grieved me to see him looking so disappointed as he came in night after night. At last Matthew and I made bold to tell him that he was not adapted for this kind of work. "It is entirely too hard,"#aid Matthew, "You should have something in an office, writing and figuring, that's the vocation for you." "What office would take me without a recommendation?" said Gentleman George, with a queer look. "No, no, Matthew, Ive had enough of offices, and offices of me, To sit behind a desk again would drive me mad, I think." And with that he got up and went out. "I'd take him if I had an office," said Matthew, after he had gone. "I'd take him with or without a recommendation. There s heaven's own writ-ing on his forehead. I can read it and so can you." "He isn't fit to rough it with longshore men, or to live in this way at all. Oh, Matthew, Tim sure that he belongs to a retined family, and I would give a good deal to see him back among his folks again. I feel sure he must have relatives somewhere." "He say She hasn't and he ought to know," answered Mat-

somewhere," "He say She hasn't and he ought to know," answered Mat-thew," but he is a true and worthy man, or I never saw one," All that day I kept thinking and thinking, and worrying more and more about this poor young man: for I had grown as fond of him as though he had been my very own. But the more I thought, the more I worried, so there seemed to be little use in that

Varieties.

To do easily what is difficult for others is the mark of talent. To do what is impossible for talent is the mark of genius.

She that good thinketh good may do, And God will help her thereinto. For was never good work wrought Without beginning of good thought.

Sorrow for having done amiss is fruitless if it sue not_sin doing so no more.

A girl's toilet is a part of her character. The maiden who is slovenly in the morning is not to be trusted, however fine she may look in the evening.

What worse chastisement could God give us than to allow us to run in the path of our own folly. The power to love is the power to suffer.

There are three short and simple words, the the ability to utter which is the test of any girl's good sense. The words are, "I was wrong,"

The wife who sews on buttons is better, than the one who speaks seven languages to some men,

It is the centre of univeral attraction. It is the radiating point of all blessed influences.

We may all look upon the Bible as we look upon the broad domain of nature, or upon the blue heavens above. It is common property. It is all ours. It all belongs to each of us, because our Father made it. We breathe a common air; we gaze upon the same loveliness ; the same landscape smiles in beauty at our feet; the same heavens encompass us : in the Bible, as in the book of nature, we are all at home, for God, our Father, is over all and in all. LE ROY J. HALSEY, D. D.

A Christian is not his own, but keeps himself free for God's work. -St. Ignatius.

First let our own inner life be real, and then we may try to draw others to share its sweetness, its comfort, and its battle.

When we have yielded ourselves to Him, body, soul, and spirit, when His forgiveness has lighted the flame of love and gratitude in our own souls, then there flows forth the power of awakening the latent spark in others.

Partings may come, but it will only be for a time such a little time-and then we shall meet, and never part, but be safe with God for ever. When we have that to look for, how little does any sorrow matter to us, and how short it all seems.

God's will must be everything to us, not our own; though we are sometimes tempted to ask for our own. We must "lay hold" on God's promises, grasp them firmly they never fail; but we must trust and expect Him to fulfil them, and He will.

"The Situation that has not its Duty, its Ideal, hardest of all to pronounce in any language, and was never yet occupied by man. Yes, here, in this poor, miserable, tempered, despicable actual, wherein thou even now standest, here or nowhere is thy Ideal: work it out therefrom: and working, be-lieve, live, be free." *Cartyle*,

FARMER'S ADVOCATE. ТНЕ

MINNIE MAY'S DEPARTMENT.

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Our Irish Letter.

DEAR CANADIAN SISTERS AND BROTHERS : I can scarcely realize another month's having flown since I wrote you before. I suppose it is that events lately crowded on me, and I shall tell you of

a few. I suppose you have all heard of the celebrated Sans. Souci Diamonds, which were amongst the plunder, in fact amongst the crown jewels plundered during the French Revolution, and which had been presented by a certain Madame de Montespan to one of the Louis'—(I forgot which). They were worn last month at our Queen's drawing-room by a lady, a Mrs. Aston. I should like to know how she be-came the possessor of them, but I don't. I fear we are verging towards a revolution here, though that is too tragic a name for what might look like one mean only coop in point. We are more windbags when only seen in print. We are mere windbags, half of us at least. It is simply abominable the way we respectable ladies and gentlemen are being bullied by this Home Riot affair. Some call the thing Home Rule, others Home Ruin, but I have invented my own appellation, which is Home Riot. There is to be a wonderfully large Orange demonstration here in Dublin on the 17th. applied for a press ticket, but have had no reply. suppose the secretary cannot see his way to grant-ing my request; however, it may come, and if it does I shall have an account of the meeting in my next letter for you.

The vice-regal people held a drawing-room last week. Many personal friends were there, but they one and all told me they could give me no pleasant account of it. It was mere wreckage—people odd, dresses odder, refreshments oddest. 1 wish our dear old Queen would come amongst us, and hold even one before she becomes too old. We want something of the kind.

something of the kind. I played Patrick's Day for the last time the night we heard of the "Riot" having had its first reading; unless it is thrown out, I shall never try it again. I think myself a plucky little woman writ-ing in this way. Perhaps my letter will not be taken, but please, dear friends, do not blame Minnie May for any shortcoming of mine. I am a very May for any shortcoming of mine. I am a very out-spoken little lady, and am given to form opinions for myself, and stick to them.

Our antiquarians have been put on the qui vive. Excavations for sanitary purposes were lately ordered to be carried out round St. Patrick's Cathedral. When digging the men came across one pillar, then another, and so on, until the shape of a church was discovered, and some of the walls. I've looked through this morning's paper to see if any fresh light had been thrown on the discovery, but see nothing of it. A thing of this kind sets one thinking. If the antiquarians, who may root out, to their own satisfaction. the when's and why's of this underground curiosity, give us ignoranuses the benefit of their research, I hope the ending may not be a new edition of Dickens' delightful play upon the landmark in Pickwick's Papers, where Mr. Pickwick gloried in discovering the ancient cross with the inscription which he hoped would immor-

with the inscription which he noped would immor-talize the finder, but which when interpreted correctly was only "Bill Stumps, his mark." The wedding I spoke of as coming off came, and a charmingly bright one it was. The very pretty bride (not pretty because she was one, which com-pliment one is apt to pay brides in general, but be-pliment one is apt to pay brides in general, but be-

World's Fair, I wish they would go and see an Irish jaunting car, Irish horse and Irish man, who are all being taken out to exhibit from Blackrock, where I hail from, or, I should say, from near Stillwhere I hall from, or, I should say, from heat of organ. The man's name is Byrne, his trap is a clean specimen of our Jarveys. I advisedly say "clean," as some of our Irish cars and cabs are not so. SUSAN STUDDERT KENNEDY.

Dress.

BY JESSIE J. LAMBERT, (Written for the FARMER'S ADVOCATE.)

"For the apparel oft proclaims the man." Did you ever consider that our clothing is often a true reflection of ourselves. So far as dress can improve our personal charms, I can understand the ove for it, for then it gratifies the desire for adlove for it, for then it gratines the desire for landle, miration, and, to a certain extent, is not blanable, for personal attractions are the gift of Providence, and therefore to be estimated in due proportion to their worth. The earth is not constructed on the principle of producing so much food for man's bodily wants; it has its cornfields, but it has also its wild flowers, on hill and moorland, to give us a sense of simple and touching beauty. Every woman ought to believe in the science of human Every beauty, and to cultivate it they should make the most and best of that which nature has given them. I am a believer in the right of a woman to look her best; it is not only her right, but it is really a duty for the mother of children to dress well and look her best; she should be to them the ideal woman, and ideality and slovenliness never go together. A dowdy woman seldom has good in-fluence; slovenliness spreads to everything—a slovenly dress helps to create a slovenly mind; disorder without means confusion within. A neatly dressed person always meets with a respect which a slovenly one cannot demand. The art of dressing well lies in wearing that which is suited both to the time and place, and to one's position in life. It is not necessary that a person should be dressed in costly garments, or that they be made in the latest style, but it is necessary that they be clean, whole and appropriate, and it is very desirable that they be becoming, and at least passably well-fitting. To be well dressed is to be comfortable, and to be comfortable means to be one's self, not ill at ease and likely to commit any mistake for which one would feel ashamed afterwards. Good

There is a class who innocently wrong themelves by their dress. If a woman paints her face, dyes her hair, and draws in her waist, she may not be morally bad, but she will be quite sure to be mistaken for quite another person than the lady she is.

"Still to be powder'd, still perfumed, Lady, it is to be presumed, Though art's hid causes are not found. All is not sweet, all is not sound."

The woman who delights to array herself in cheap laces, sham jewelery, and inferior silks, is generally as artificial as her attire, lacking the ring of sincerity, just as her garments lack the marks of genuineness. She is commiting a grievous wrong when she centres all attention on the feathers that bedeck, and the flowers that will go out of fashion to-morrow. To seek admiration in this way only is the surest way to lose respect

UNCLE TOM'S DEPARTMENT.

APRIL 1, 1893

MY DEAR NIECES AND NEPHEWS :-

AR NIECES AND NEPHEWS :--"Now the noisy winds are still; April's coming up the hill; All the Spring is in her train, Led by shining ranks of rain, Pit, pat, patter, clatter, Sudden sun, and clatter, patter! First the blue and then the shower; Burosks set free with tinkling ring; Birods sot free with tinkling ring; Birds too full of song to sing; Crisp old leaves astir with pride, Where the timid violets hide--All things ready with a will, April's coming up the hill." rites an American poetess,

Aprils coming up the nul. So writes an American poetess, Mary Mapes Dodge. Our feelings keep time to the words, for who is not glad when Winter's bands of ice are breaking and Spring's winds, sunshine and showers appear? These are soon followed by leaf and bud and blossom and soon we will be ushered into and blossom, and soon we will be ushered into summer. The wild flower and the violet will be in summer. The wild flower and the violet will be in bloom, and the blue flag in the swamp. Your city cousins buy iris bulbs from the florist along with their Chinese lilies and hyacinths, and what do you think they turn out to be after all their watering and sunning and care? Merely *flags*, not so pretty nor so lasting as those you see down there where the cows are eating by the creek side. "Once upon a time" as the stories we used to like to hear a time," as the stories we used to like to hear began, a little girl used to feel badly over the fact that she was not pretty. This silly child was presented by her teacher with an ordinary, onionypresented by her teacher with an orunary, onlong-looking bulb and asked to give it water and sun-light. She did so, and was rewarded in time by a beautiful flower, full and rich in color and delicate in perfume. As she watched it unfolding day by day, what lesson do you think she learned? It was day, what lesson do you think she learned? It was this: unsightly surfaces may cover wonderful pos-sibilities of life and beauty, and we hope she learned what all of us learn as we grow older, that beauty lies not so much in face or figure, grace or carriage, as in thoughtful common sense from which come kind words and actions. These bright spring evenings bring many memories back to us older folks as we sit and hear your merry voices at your play—memories which lie "too deep for tears"; buried away, which only this time of year at even-tide recalls. "History repeats itself," even at even-tide recards. History repeats itsen, even in the lives of persons, and as you rake the lawn, make your gardens, drive your horses, it calls to mind how we, with others now far, far separated, it spiller things in others days. Not one sound of mind how we, with others how fail, fail separate did similar things in other days. Not one sound of enjoyment would I hinder. The days are going by— even to-morrow you will be older than to-day; but I'm afraid Uncle Tom's reverie has been too long to-night, and lest he weary you with his sombre UNCLE TOM. tone he will close.

P. S.-I want to remind all those who have not F. S.—1 want to remind an those who have hot yet sent their photos, to do so at once if they wish to appear in our "Souvenir Group," as I hope to have it ready for distribution early in May. I have been much gratified at the interest taken in selections for the "Poet's Corner." I have been

literally deluged with bushels of poems, but on account of the space occupied in publishing the three selections, henceforth I will be unable to obtain room in our department for more than one selection each month, which, of course, will be en-titled to the prize of one dollar.

POETS' CORNER. Selected Poetry.

cause she is sweet to a degree) was obliged to have six little train bearers --three miniature Lord Faun-telroys, and three little Red Riding Hoods. We returned to the *dejeuner*, which passed as all things of the kind do. I thought it touching to see the bride's little mother (a degree smaller than your humble servant) give her only daughter away. She is a widow, so there was no father to take the happy duty off her shoulders. When it came to going away time, all we guests arranged ourselves down each side of the broad staircase and hall, with rice ad libitum, servants in a back hall armed with dreadful looking old shoes ready for a rush to the front. After a little while the murmur rose, "she is coming, time is up". Then from the upper landing there flew, I might say, down the stairs, straight through the hall door, down the steps, into the carriage, the very brightest looking little girl bride I ever saw. She said during the morning that she felt that she was not like the correct thing. She could not grow pale, her brunette complexion and soft brown eyes were things of beauty to behold. Her cousin, on whose arm the rush was made, is a "McNeill, of Park Mount," a name per-fectly known in "upper ten" circles. He is familiarly known in the north of Ireland as "Long Ed." He is an Edmund McNeill, and measures six foot seven inches. She fitted under one of his arms, he holding the end of her long travelling cloak over her head with the hand of the other arm, to save her face from the showers of rice. When they had only been away a few minutes, lo ! an alarm to return. What has happened? Quite an excitement prevailed for a second or two, but it only turned out to be the bride's Gladstone bag which had been forgotten, and they returning for it. This bag was a wedding present from Lord Cairns. Lady Cairns had given carte blanche for "Manning's" own make in the beauteous white corded silk wedding dress. I dreamed on some of the cake, but having a husband I was satisfied to spend a dreamless night. If any of my Canadian friends go to the Chicago as to break his leg.

and love. A vain woman is not lovable, and has been said to have many points in common with that most unmusical of fowls, whose beautiful plumage does not hide his ungainly feet nor overcome the harshness of his untuneful voice. Vanity is not a becoming sin. The inordinate love of admiration is indicated by an undue attention to dress.

The foolish mother spends her ill-spared pence to purchase a bead necklace, and does not fail to impress on the child the pleasure of putting it on for the first time. The untidy school girl sticks an artificial flower into her torn and dirty hat, and exults over her companions in ideal splendor. little older, and she spends her scanty wages in finery, and goes without decent and necessary clothing. A little older and her wages will not suffice the growing desire, and theft, iniquity, and final ruin are to be traced to this propensity. The inordinate love of dress and display which young women cherish, and the time given to the ministering to their personal vanity, leads very many into a reckless and heartless state, and to an utter distaste for the things which would profit their spiritual, intellectual and social nature.

Some Queer Advertisements.

Babies taken and finished in ten minutes by a ountry photographer.

Wanted-A female who has a knowledge of fitting boots of a good moral character.

For Sale—A handsome piano, the property of a oung lady who is leaving Scotland in a walnut ase with turned legs.

To be Sold-A splendid gray horse, calculated or a charger, or would carry a lady with a switch tail.

• A lady advertises her desire for a husband "with a Roman nose having strong religious tendencies.

A newspaper gives an account of a man who "was driving an old ox when he became angry and kicked him, hitting his jawbone with such force

BY FLOSSIE GRAHAM, HAWTHORNE P. O., ONT.

The poems of Alice and Phœbe Cary were published in a joint volume during the lifetime of the The first venture in this way was made in sisters. 1849, and the large public interested in their works has ever since then instinctively connected writers, who, bound together by peculiar ties, were as akin and divergent in their natures. Subsequently to the first venture, they issued their volumes of poetry separately, but after their death the editor of their writings, Mrs. Mary Clemner, again asso-ciated them. Her memorial contained their later poems, followed by the last poems of Alice and Phœbe, and finally by Ballads for Little—Folk again a joint collection. Alice Cary was born 1820, and her citer Phoche in 1821 in Cincinnetia Theory ware her sister Phæbe in 1824, in Cincinnati. - They were the authors of many beautiful gems of poetry. In 1851 they moved to New York, where they supported themselves by writing poems and prose sketches for newspapers and magazines. They died in 1871, within three months of each other.

"Nobility," ALICE CARY.

ALICE CARY. True worth is in being, not seeming— In doing each day that goes by Some-little good—not in the dreaming Of great things to do by-and-by, For whatever men say in blindness, And spite of the fancies of youth, There's nothing so kingly as kindness, And nothing so royal as truth.

We get back our mete as we measure— We cannot do wrong and feel richt, Nor can we give pain and gain pleasure, For justice avenges each slight. The air for the wing of the sparrow, The bush for the robin and wren, But always the path that is narrow And straight, for the children of men.

Tis not in the pages of story The heart of its ills to beguile, Though he who makes courtship to glory Gives all that he hath for her smile; For when from her heights he has won her, Alas! it is only to prove That nothing is so sacred as honor And nothing so loyal as love!

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THE FARMER'S ADVOCATE.

We cannot make bargains for blisses, Nor catch them likes fishes in nets; And sometimes the thing our life misses, Helps more than the thing which it gets. For good lieth not in pursuing, Nor gaining of great nor of small, But just in the doing, and doing As we would be done by, is all.

As we would be up oy, is all. Through envy, through malice, through hating, Against the world, early and late, No jot of our courage abating— Our part is to work and to wait. And slight is the sting of his trouble Whose winnings are less than his worth ; For he who is honest is noble, Whatever his fortune or birth.

"The Old Homestead." "The Old Homestead." When skies are growing warm and bright, And in the woodland bowers, The spring-time, in her pale, faint robes, Is calling up the flowers. When all with naked little feet, The children in the morn Go forth, and in the furrows drop The seeds of yellow corn. What a beautiful embodiment Of ease, devoid of pride, Is the good old-fashioned homestead, With its doors set open wide !

With its doors set open wide ! But when the happiest time is come That to the year belongs, When all the vales are flyed with gold And all the air with songs, When fields of yet unripened grain And yet ungarnered stores, Remind the thrifty husbandman Of an pler threshing floors, How pleasant, from the din and dust Of the thoroughfare aloof, Stands the old-fashioned homestead, With steep and mossy roof !

When home the woodsman plods with axe When home the woodsman plods with Upon his shoulder swung, And in the knotted apple tree Are scythe and sickle hung; When low about her clay-built nest The mother swallow trills, And decorously slow the cows Are wending down the hills, What a blessed picture of comfort, In the evening shadows red, Is the good old-fashioned hom stead. With its bounteous table spread !

And when the winds moan wildly, When the woods are bare and brown, And when the swallow's clay-built nest From the rafter crumbles down; When all the untrod garden paths Are heaped with frozen leaves, And icicles like frozen spikes Are set along the eaves, Then, when the book from the shelf is brought, And the fire lights shine and play, In the good old-fashioned homestead Is the farmer's holiday!

But whether the brooks be fringed with flowers, Or whether the dead leaves fall, And whether the air be full of songs, And whether the air be full of songs, Or never a song at all, And whether the vines of the strawberries, Or frosts through the grasses run, And whether it rain or whether it shine Is all to me as one, For bright as brightest sunshine, The light of memory streams Round the old-fashioned homestead, Where I dreamed my dream of dreams.

"Nobody's Child."

PRIEBE CARY.

PREBE CARY. Only a newsboy, under the light Of the lamp-post plying his trade in vain; Men are too busy to stop to-night, Hurrying home through the sleet and rain. Never since dark a paper sold; Where shall he sleep, or how be fed? He thinks as he shivers there in the cold, While happy children are safe in bed.

Fleecy locks and black complexion Cannot forfeit Nature's claim : Skins may differ, but affection Dwells in white and black the same.

Why did all-creating Nature Make the plant for which we toil? Sighs must fan it, tears must water, Sweat of ours must dress the soil. Think, ye masters, iron-hearted, Lolling at your jovial boards; Think how many backs have smarted For the sweets your cane affords.

Is there, as ye sometimes tell us, Is there One who reigns on high ? Has He bid you buy and sell us, Speaking from His Throne the sky ? Ask Him if your knotted scourges Matches, blood-extorting screws, Are the means that duty urges Agents of His will to use ?

Hark ! He answers—wild tornadoes, Strewing yonder sea with wrecks; Wasting towns, plantations, meadows, Are the voice with which He speaks. He foreseeing what vexations Africa's sons should undergo, Fixed their tyrant's habitations Where His whirlwinds answer—no.

By our blood in Africa wasted, Ere our necks received the chain ; By the miseries that we tasted, Crossing in your barks the main ; By our sufferings, since ye brought us To the man-degrading mart ; All sustained by patience taught ūs Only by a broken heart.

Deem our nation brutes no longer, Till some reason ye shall find Worthier of regard, and stronger Than the colors of our kind. Slaves of gold, whose sordid dealings Tarnish all your boasted powers, Prove that you have human feeling Ere you proudly question ours.

"Human Frailty." Weak and irresolute is man; The pow well bent and smart the spring, Vice seems already slain; But passion rudely snaps the string And it revives again. But passion rudely snaps the string And it revives again. Some foe to his upright intent Finds out the weaker part; Virtue engages his assent, But pleasure wins his heart. "Tis here the folly of the wise Through all his heart we view; And, while his tongue the charge denies, His conscience owns it true.

Bound on a voyage of awful length, And dangers little known, A stranger to superior strength, Man vainly trusts his own.

But oars alone can ne'er prevail To reach the distant coast; The breath of Heaven must swell the sail, Or all the toil is lost.

Robert Burns,

born 1759, died 1796, is commonly called Scotland's greatest poet, and was positively the most popular greatest poet, and was positively the most popular writer of lyrics in the English language. The greater number of his poems are written in his native Ayrshire dialect, which, however, he fre-quently exchanges for English, especially in his more serious strains. He is the poet of freedom, as well as of beauty. So long as there is warm blood in the heart of Scotchmen, it will thrill under his spirited poem entitled "Bannockburn, or Robert Bruce's Address to his Army. His "Man's a Man for A'That", "Man was Made to Mourn", and many others of the same type, will endure while the others of the same type, will endure while the language lasts. He was a Scotchman. His variety of poetry is equal to his originality : humorus, gay, tender and pathetic come all in a breath. The comic slides easily into the serious, the serious into the tender, and the tender into the pathetic. The following three verses are taken from "Man was Made to Mourn ":

Puzzles.

1-DOUBLE LETTER ENIGMA. In the "summer time" so gay, 'Mongst the "autumn leaves" I play; In the "winter's chilling blast." Merry springtime's here at last.

In the whispered fond "good night", In the moring's "early light", With the "merry birds" I sing, As they fly upon the wing.

Hidden 'neath these lines doth lie A day we all should glorify; Tis hallowed for its sanctity, For't gave us all our liberty. FAIR BROTHER.

2-CHARADE.

One day I spied the ADVOCATE With puzzles FIRST galore, Though of puzzles there were many Of puzzlers there were more.

Now I thought it was second crime To join this happy band Of puzzlers, if Uncle Tom Should take me by the hand.

Some of them may be wealthy, Without a LAST some more, Some stay awhile, then go away, Of steady puzzlers we have four.

Miss Armand and Miss Lily Day, Mr. Edwards and Fairbrother, But there! I did forget Fred Hall, You'll not find such another.

Henry Bobier and G. W. Blythe, I quite forgot them too. I see Minnie May's essayists have done wrong, Not so with Uncle Tom's crew.

They are COMPLETE of such things, I am very glad to say, But I think I am taking up space which might Be used in a better way.

ADA SMITHSON.

3-ENIGMA. 3-ENIGMA. It's taken with us when we die; What some almost possess; What the miser gives away, He can do nothing less.

The prisoner says it in defense, When placed before the bar; What some may be to others, Who perfect strangers are.

What no one cares to work for; What everyone should owe; What you now stand in need of; I trust it may be so.

Now, as the first of April is here, Don't put yourselves about: For should you fail to guess this, You will be nothing out.

GEO. W. BLYTH. 4-DECAPITATION. Come all ye honest puzzlers, Who to the Dom belong, Send in your little bits of verse, And help the cause along.

Come let us see, for ninety-three, Who doth comprise the crew; As we speed along, 'mid breakers strong, In the ADVOCATE canoe.

With "Uncle Tom," our captain long, "Miss Armand" as first mate: And a boat so tried and trusty We'll get WHOLE, I calculate.

"Miss Lily Day " stands at the helm, "Miss Fairbrother " is cook ; "Sir Henry Reeve," you'll all perceive, Doth keep the log (or book).

The cabin-boy's a "Blyth" young man, Who answers "Beck" and call; "Miss Smithson " to the bo'sun said, Come up FIRST, you, "Fred Hall."

Friend "Bobier," too, a jolly tar, Is in the foremost watch;

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Is it strange if he turns about With angry words, then comes to blows, When his little neighbor, just sold out, Tossing his pennies, past him goes? "Stop" != some one looks at him, sweet and mild, And the voice that speaks is a tender one; You should not strike such a little child, And you should not use such words, my son !

And you should not use such words, my son! Is it his anger or his fears That have hushed his voice and stopped his arm? "Don't tremble," these are the words he hears; "Do you think that I would do you harm?" "It isn't that," and the hand drops down; "I tooldn't eare for kicks and blows; But nobody ever called me son, Because I'm nobody's child I s'pose."

Oh men : as ye careless pass along, Remember the love that has cared for you; And blush for the awful shame and wrong Of a world where such a thing could be true ! Think what the child at your knee had been If thus on life's lonely billows tossed; And who shall bear the weight of the sin, If one of these "little ones" be lost ?

William Cowper,

born 1731, was 'the poet of the religious revival of the eighteenth century. His most important poem is The Task, in which praise of the quiet country life which he loved is mingled with reflections upon religious and social topics, and satirical touches upon the fashionable vices and follies of his time. He was of a highly sensitive nature, and was subject to fits of melancholy, which cast a gloom over his whole life. The chief characteristics of his poetry are clearness, simplicity and fidelity to nature. He departed this life in 1800, leaving behind him noble foot-prints in the paths of time.

The Negro's Complaint.

Forced from home and all its pleasures, Africa's coast I left forlorn; To increase a stranger's treasures, O'er the raging billows borne. Men from England bought and sold me, Paid my price in paltry gold; But though slave they have enrolled me, Minds are never to be sold.

Still in thought as free as ever, What are England's rights, I ask, Me from my delights to sever, Me to torture me to task?

Oh. man! while in thy early years, How prodigal of time ! Misspending all their precious hours, Thy glorious, youthful prime ! Alternate follies take the sway ; Licentious passions burn ; Which tenfold force give nature's laws That man was made to mourn.

A few seem favorites of fate; In pleasure's lap caressed; Yet, think not all the rich and great Are likewise truly blessed; But, oh! what crowds in every land Are wretched and for forlorn! Through weary life this lesson learn That man was made to mourn That man was made to mourn.

Oh, death! thể poor man's dearest friend, The kindest and the best! Welcome the hour my aged limbs Are laid with thee at rest: The great, the wealthy fear thy blow, From pomp and pleasure torn! But, oh! a bless'd relief to those That weary-laden mourn!

h.

"Song of Death."

Tis evening on the battle field, the wounded and dying of the victorious army are supposed to join in the song.

Farewell, thou fair day, thou green earth and ye skies, Now gay with the bright setting sun !
Farewell, loves and friendships, ye dear tender ties, Our race of existence is run !

Thou grim king of terrors, thou life's gloomy foe, Go, frighten the coward and slave! Go teach them to tremble, fell tyrant! but no, No terrors hast thou for the brave

Thou strickest the poor peasant – he sinks in the dark Nor saves e'en the wreck of a name; Thou'strickest the young hero– a glorious mark ! He falls in the blaze of his fame.

In the field of proud honor -our swords in our hands, Our king and our country to save. While victory shines on life's last exbing sands, Oh, who would not die with the brave?

LAST ree months have flown Hath slipped beneath the hatch.

FAIR BROTHER. 5-CHARADE.

One day as Patrick was sitting COMPLETE a load of hay; The Waverly novels by Sir Walter Scott reading; Ada Armand came PRIME that way, Said she, "A riddle I've got, Sir Pat, for you to solve to-day."

Said she, "A fluttle i to gather " My time I cannot waste," said he, " In solving a trick for you just now"; But still her trick she pressed sEcond him She said, " He must or else there would be a row." HENRY REEVE.

6-ANAGRAM. I saw a man in a prison cell And asked him the reason why; He answered low "My being here Is just the work of one fly."

ADA ARMAND.

7-DIAMOND. My first is in our photograph; My second is a deed; My third up near the house-top May often be perceived; My fourth is a geometrical figure; My fifth an animal wild; My sixth may be a measure ; My seventh's in "reconciled."

ADA ARMAND.

8-ENIGMA. I roll, dance and prance along, I rage, I roar in noisy song, I'm white and black and sometimes blue, Perhaps green is my usual hue.

J. FRED. HALL.

No. 9. My first is one of our fairest flowers ; My second's a space of twenty-four hours ; My whole's a puzzler of fame, I'm sure you all have heard her name. I. IRVINE DEVITT.

Answer to March First Puzzles.

1-Patrick, a trick, trick, rick, 2-In-sat-i-ate-insatiate. 3-Sir Walter Scott-Waverly Novels, 4-Ada Armand, 5-Cannot.

Names of Those Who Have Sent Correct Answers to March 1st Puzzles.

Henry Reeve, Henry Bobier, Oliver and Addison Snider, Thos. W. Banks, I. Irvine Devitt, Agatha Prudhomme, Geo. W. Blyth, Edith Fair Brother, Ada Smithson, A. R. Borrowman.

Read before the Brandon Farmers' Institute by T. M. Percival, Brandon.

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The subject for our discussion to-day is one of such magnitude and importance, relating, as it does, to the noblest of animals relegated to the service of man, it is impossible in one short paper to give anything of a detailed account of their breeding or management; I will, however, endeavor, in as plain and concise a manner as possible, to touch upon Cleveland Bay or thoroughbred, you would have some of what I consider the most important parts had a grand team for the farm or a carriage team of the subject. It is only by a thorough discussion, and getting the experience of each other, we can obtain the best results.

First-Do not recognize luck in breeding. "Luck is a fool, pluck is a hero," is one of the grandest of many maxims voiced by sages, and with it as a central figure many edifices of success have been reared.

"Success," Matthews says, "always a coy maiden, is now, when crowds of wooers have made her saucy, harder than ever to win." And so it is in all enterprises, especially so in breeding of horses.

The haphazard system of mating in the past has left the majority of would-be horse breeders in this province with a large number of nondescript colts on their hands, which will be difficult to sell at a price to cover the cost of raising-in fact, in the present state of the horse market, difficult to sell present state of the norse market, united to sen at any price; whereas, a good animal of a fixed type will sell, even now, at a profit. However ex-perienced and painstaking a breeder may be, he will, from some cause, have a few weeds. It is therefore of the utmost importance, in attempting to bread horses successfully that we should at the to breed horses successfully, that we should, at the outset, know what type of horse we wish to raise, and never from any cause be led away from our ideal.

Second (and of paramount importance)-Never breed an unsound mare or use a sire that is unsound (by the term unsound, I mean any hereditary unsoundness); if you do, the chances are you have an unsound offspring.

Third-Use great care in the mating of your mares. There is now in this district a sufficient variety of stallions to suit any class of mares ; there is therefore no excuse for a man using an unsuitable steady work and careful handling are best. If you sire. Take particular notice of your mare—size, style and general formation, and then select a stallion to mate for plenty of out-door exercise stallion to mate. Say, for instance, you have a in some form. As she nears the time of foaling, mare between ten and twelve hundred, I would use a say two or three weeks before she is due, provide a Hackney or Cleveland Bay, and the result would be roomy, loose box, well ventilated and light, free Hackney or Cleveland Bay, and the result would be a stylish driver or saddle horse for sale, or a good serviceablehorse for the farm: if a filly, breed again on on the same line and keep to it, in the end you will have a class of horses that you would not have to go away from home to sell. Again, suppose you have a 1300-lb. mare or upwards, breed to one of the heavy breeds, and keep to that line of breeding.

Horse Sale-Cobbold & Shadwell, Toronto. Galloways-A. Mann, Bowmanville. Situation Wanted-Box 27, Compton, Que. Poultry-Pearce & Brown, London. Hay Implements-M. T. Buchanan, Ingersoll. Jerseys-Mrs. E. M. Jones, Brockville. Poland Chinas-W. & H. Jones, Mt. Elgin.

light breeds of horses. Now, for instance, say you assistance can be given if required. have a team of mares about 1150 or 1200 lbs., clean boned and active; you want to breed them to some-thing and would like to get something heavier, you breed them to a big Shire or Clyde, thinking by that means to get what is to make the most critical in a foal's existence. If you can get them over the first ten days, they team, with the result, in nine cases out of ten, you fed judiciously. have a fair farm team, at the same time a team that you would have had no difficulty in finding a

market for. In giving these illustrations, I do not wish it to be understood that the weight of a mare is a safe criterion as to what sire to use. As I stated in the beginning, you must carefully study the general make-up of your mare, and then decide, but keep to the line. What we want is a horse to suit the people that can and will pay good prices for what they want. There is and will be a demand for heavy horses, carriage horses, high stepping drivers and saddle horses, and those who raise them of good quality and sound will have no trouble in selling them. We have a good class of mares, also stallions with which to mate them, and one of the finest climates in the world for stock. What is wanted is sound judgment in mating, a clearly defined ideal always in view, generous treatment and careful handling of our stock. Once fairly engaged of in stock breeding, stick to it, bring your energies to bear upon it, and you will find it interesting and profitable

In conclusion, I will just touch upon the treatment of the brood mare and colt. I will assume that the mare is due to foal early in the season, before she can be turned on the pasture. In the first place, for the health of the mare and also of the mborn foal, it is absolutely necessary that the mare should have daily exercise : steady work, if the trails are good, or an hour's run in the yard will do. Never back them when hitched up, or let them flounder about in the deep snow. One great cause of the loss of colts is driving on bad trails and walk-ing in deep snow. So long as the trails are bad, and there is any danger of the mare breaking through, keep her off it, but when there is good, firm footing.

A Paper on Horse Breeding and the Treat-ment of Brood Mares and Foals. There is no greater folly than extreme crosses. to interfere with them unless absolutely necessary, though they should be carefully watched, so that

that means to get what is termed an agricultural usually require very little attention, if the mare is

The mare should be fed some two or three weeks there is no market for if you want to sell them: before she is due to foal and some time after soft whereas, if you had bred them to a coach horse, food, such as boiled oats, bran, and linseed that has been boiled for 12 hours or longer, so as to loosen the system and provide a generous flow of milk. If from some cause the mare should not have sufficient milk, the best substitute is cow's milk, one-fourth water and a tablespoonful of honey to a pint of milk

Costiveness, diarrhoa and inflammation are the principal ailments a young foal is subject to. The two first careful treatment will overcome; the last is, in most cases, fatal.

The following are well-tried and the best remedies that have come under my notice :- Costiveness-Rectal injections of luke-warm water every half hour, or syrup of rhubarb with a few drops linseed oil; dose, tablespoonful. Nothing acts more powerfully than injections, and the advantage is they do no harm.

Diarrhœa should not be stopped suddenly; tablepoonful brandy with half a teaspoonful of tincture of gentian and two tablespoonfuls lime-water, in a

cupful of linseed tea every three hours. Inflammation—Apply blanket, thickly folded and rung out in very hot water, to belly; rub the legs well; give teaspoonful laudanum in 2 ounces of water. Repeat dose in two hours if necessary.

Hiring a Man for the Season.

Every year it seems harder to get a good man, or men, to work on a farm, even at the present high rate of wages. There are so many avenues open to laborers here-the railways, the bush, city work on sewers, etc., all at far greater wages apparently than the farmer offers, or can offer, that farmers find it very difficult to get sufficient help. In many instances it will be found that the high-paid railway laborer is penniless in the winter, the quarryman is loafing round some tavern, and a great array of unemployed "bone and sinew" is in receipt of relief in winter. If these men will only try steady work for farmers, and work as faithfully on the land as they have been doing elsewhere, they will be more comfortable, live better, be better treated, and not

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March meeting, a constitution adopted and officers appointed. Twenty-three members paid their fees and 24 horses and marcs were recorded. Sixty dollars were contributed for

Beam House Farm, Montford Bridge, Salop, on one trip by purchasing tickets to Chicago and beyond via the Peoples' Favorite 316-y-om England, 7 miles from Shrewsbury.

special prizes at the Toronto Industrial Exhi-bition.

DOMINION SHORTHORN BREEDERS' ASSOCIATION.

Association, it is intimately con-nected with it. A third grant of \$1,000 was contributed to it to conclude the printing of back pedigrees. They recorded 3,641 pedigrees, for which they received \$3,855.25 in fees. They had 458 paid-up members, realizing \$1,896.00. They finished printing and sent out to members in the spring the 7th Volume of their Herd Book, and nearly finished the 8th Volume, which contains the pedigrees recorded in 1891. The American Government, as they say by the recommendation of the Live Stock Associa-fions, have left the Dominion Shorthorn Breeders' Book out of their list. not allowing animals recorded in it to cross the lines free of duty, although the standard is higher than theirs. A very unneighborly transaction. DOMINION AYRSHIRE BREEDERS' ASSOCIATION.

DOMINION AYRSHIRE BREEDERS' ASSOCIATION.

The sixth annual meeting of this Association was held on the 10th of February last. Several interesting papers were read on Ayrshire sub-jects, and a very useful debate on these subjects added interest to the occasion. During the year the 1st Volume of the new series was sent out to the members. There were several time out to the members. There were several fine herds shown at the different fall exhibitions, and several cattle imported from Scotland.

DOMINION HEREFORD BREEDERS' ASSOCIATION.

The annual meeting has not been held yet. There are several members, and it is likely to become quite an important association. Eighty-five cattle of this breed have been recorded during the year, and they have been well repro-sented at the show.

DORSET HORNED SHEEP.

We have recorded 112 of these during the last year. They are making quite a record at our shows, and are renowned for raising early lambs. They stand the climate well.

SUFFOLK SHEEP.

We have recorded 29 of these during the year. They have not as yet come to this country in any numbers, but they are well liked.

the best breeders in England. Orders booked. Fifteen Breeding Sows due to farrow during spring. Shropshires bred from stock imported by such importers as John Miller & Sons, Brougham; R. Caullicott, Tyrone, etc. A few of the best Clydesdales on the continent—The Granite City and Eastfield Chief at head of Stud; also Shorthorns of choice breeding. Correspondence solicited. Visitors welcome. Milliken Station (Midland Division), G.T.R. 325-y-om BERKSHIRES.

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winning Pigs in pairs, unrelated, from im-ported stock bred by

State of the state J. G. SNELL & BRO., Edmonton, Ont.

J. G. SNELL & BRO., Edmonton, Ont. A few of our best sows now have young pigs, and we have a grand lot of sows to farrow through April and May. Most of our young pigs this spring will be by imported "Enter-prise" [1378], winner of first prize in the aged class at the Toronto Industrial three years in succession. "Enterprise" is, we think, the best Berkshire boar ever imported to Canada. He is six years old and is still as straight and smooth as when at a year old. We are now booking orders for young pigs. Boars and sows mated not akin. Write for prices. 331-bom

and, exporter of Ayrshire cattle in Scotland, has a l-ways on hand and ISRAEL CRESSMAN, New Dundee, Ont.

Breeder of Large English Berkshires. Young Hogs always on hand; got by imported stock. 328-y-om

Duroc-Jersey Swine

are the best all-round log known. No squeal-ing : quiet disposition, good grazers ; defeated the Berks and P. C. on all points at Mich. Agl. Coll. test. Pigs for sale. Address PETER DAMARSH, Wheatley, Ont. 329-1-f-om

327-1-y-om Barcheskie, Kirkcudbright.

"The Hollies," West Felton, Shropshire, Eng. Invites all American and Canadian buyers to visit his flock, which has sent more than one winner across the Atlantic. A choice lot always on hand to select from. Visitors always wel-come, No trouble to show sheep. Address as above. come, above. 322-y-om SHROPSHIRES. Foreign buyers are invited to visit the Wolf's Head Flock, as there is always a good selection of ewes and rams for sale, and we handle none but the best, and can supply select specimens for breeding or exhibition purposes, and residing in the centre of the Shropshire Sheep Breeding District buyers are assisted in select-ing from other flocks. Write for prices or visit us before going elsewhere. Visitors met by appointment at Baschurch Station, G. W. R.

SHROPSHIRES !

JOHN W. EDWARDS,

ing from other flocks. Write for prices or visit us before going elsewhere. Visitors met by appointment at Baschurch Station, G. W. R. Address-J. & T. THONGER, Wolf's Head Farm, Nesscliff, Baschurch, Shrewsbury, Eng. Telegram: Thonger, Nesscliff, 322-1-y-om

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We offer you from the best stock that money could pro-duce, eggs from the follow-ing select strains of the great egg - producing varieties :--Black Spanish, Black Minor-cas, Brown Leghorns, Light ings. We guarantee a hatch or orders dupli-cated. Eggs \$1 per setting. THOS. PEARCE. ings. We guarantee a hatch or orders dupli-cated. Eggs \$1 per setting. THOS. PEARCE. Mt. Brydges, Ont.; W. L. **KROWN**, 176 Wharn-cliffe Road, London West, Ont. A A pen of Light Brahmas and Black Minorcas for sale at a bargain ; four hens.and cockerel in each ; also Brown Leghorn cockerel. 331-c-

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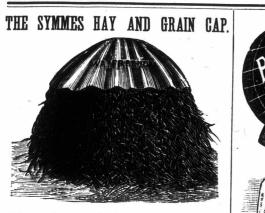
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Thoroughly waterproof, tough and durable. Size, 11¹ inches high and 12 inches diameter at bottom. Valuable for covering transplanted plants and flowers, protecting them from sun and frost. Manufactured by THE SYMMES HAY CAP CO., Sawyerville. P.Q. 331-e-0 WHITE LEGHORNS A SPECIALTY. Yard for 1893 headed by cock winner of 1st at Toronto, 1st at Ottawa and 1st both as cock and cockerel at the Ontario Poultry Show, Bowmanille. Eggs, \$1.50 per 13. 330-b-om GEORGE LEE, Highgate, Ont ville.

FREE GRANT LAND

near Gainsboro, Carnduff, Oxbow, Estevan. Having resided for ten years in the Souris dis-trict, and being thoroughly acquainted there-with as a practical farmer, I am in a position to locate farms for parties who wish to take up homesteads, and will furnish full instructions of how they may be obtained and save all travelling expenses. Improved and unimproved farms also forsale.—J. W. Connell, Carnduff, Man. 41-y-om



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COOD CROPS OR POOR CROPS, Which Shall it be for 1893?

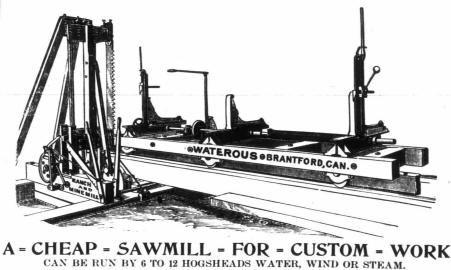
W. A. FREEMAN, Esq.: Niagara, Jan. 27th, 1893. Dear Sir,—Having given your "Bone and Potash" a fair trial with most satisfactory results, I have much pleasure in adding my testimony to its ex-cellence as a fruit producing fertilizer. I have used it at the rate of 8 lbs. per tree in full bearing. I have placed in the hands of Mr. Gage my order for eight tons, an increase of two tons on order of last year. Respectfully, (Signed) J. H. BENN. Niagara, Jan. 27th, 1893.

(Signed) J. H. BENN. W. A. FREEMAN, Esq.: Dear Sir,-Used your potato manure last year, and am well pleased with it. We used on one piece one sack with manure per acre, on another two sacks with manure, and a small piece without manure, but with frillizer at the rate of three to four bags per acre. The manure plots had at the rate of twelve to twenty loads per acre. The largest yield was received from the plot where fer-tillizer alone was used. (Signed) A. C. HOWE

Send for FREEMAN'S NEW CATALOGUE, Treating on Manuring and how to grow large and paying crops. -SENT FREE BY ADDRESSING -

W. A. FREEMAN, HAMILTON, ONTARIO. -Please mention this paper. 335-a-om

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TRADE MARK.

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SWINE BREEDERS' ASSOCIATION.

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SWINE BREEDERS' ASSOCIATION. This Association embracesall kinds of swine, and the 1st Volume of the Swine Breeders' Record has been printed by the Agriculture & Arts Association, and 170 numbers were sent out to members of this Association. Berkshires—We recorded 613 of these during the year. It is a very favorite breed. Yorkshires—We recorded 545 of these fine animals also during the year. They are great favorites also. Suffolks—Only 29 of these were recorded during the year.

ahimais also during the year. They are great favorites also. Suffolks—Only 29 of these were recorded during the year. Poland Chinas—411 of these have been re-corded, but, as was the case last year, most of them are ancestors in the States and have been recorded free. Chester Whites—275 were placed on record, several of them being franked. Tamworths—We have recorded 39 of these. A very good showing for the first year. The Second Volume of the Swine Record is in the hands of the printers, containing some of the pedigrees of all the breeds above, and will be sent to the members for 1893. PRIZE FARMS. In 1892, Group No. 6, consisting of the coun-ties of Leeds and Grenville (2), Glengary, Grén-ville South, Lanark (2), Dundas, Carleton, Prés-cott, Renfrew (2), Russell and Stormont were visited by John I. Hobson, Mosboro'; R. Vance, Ida; W. J. McNaughton, Lancaster; and F. W. Hodson, London, as judges, and their valuable reports will be found in our report to the Minister of Agriculture for 1892. Our Council at the last meeting thought fit to lop off this branch of its services, and unless it be brought up again at this meeting, no farms will be visited this year, and the inter-esting reports on the qualities of these farms will be missed in our next report. The ex-penses of the four judges were §392. ONTARIO VETERINARY COLLEGE. This Association granted veterinary diplomas to students that graduated from the Ontario Veterinary College, under the able Presidency of A. Smith, V. S. R. V. S., Ed. The diplomas cost \$90 PLOCHING MATCHES.

cost \$90 PLOUGHING MATCHES. Four of these were held in the different sections of the provinces. Districts 1, 2 and 3, under the management of C. E. Edwards, M. P., D. McPherson and J. Legge, was held near the town of Merrickville, in the county of Lanark.

P., D. McPherson and J. Legge, was held near the town of Merrickville, in the county of Lanark.
Districts 4, 5 and 6, under the management of Jas. Haggarty, W. J. Westington and J. C. Snell. The match was held near the village of Sterling; county of Hastings.
Districts 7, 8 and 9, under the management of J. C. Rykert, N. Awrey, M.P.P., and Wm. Dawson. The match was held near Thorold, in the county of Welland.
Districts 10, 12 and 13, under the management of Jas. Rowand, M.P., C. M. Simmons and A. Rawlings. Match was held near Mildmay, in the county of Bruce.
Allof these matches were successful, and cost the Association \$600.
WORLD'S COLUMBIAN EXPOSITION.
At the March meeting of 1892 a committee from this Association waited on the Hon. John Dryden, Minister of Agriculture, and recommended the Government through him to appoint a Provincial Commissioner, to select exhibits of all kinds from Ontario. Soon after that the Government, with the full concurrence of the appointment, granted a Special Commissioner for Ontario, also giving him an Advisory Board to confer with him, to act in conjunction with the Government, with the full concurrence of the appointment, granted a Special Commissioner for Ontario, also giving him an Advisory Board, on which two members of our Council and myself, as sceretary, have seats. Schedules were immediately sent out amongst breeders of live stock, and were loyally responded to the front next fall. Of entries for horses we have received 10 of Thoroughbreds, 42 Standardbred, 38 Carriage, 96 Clydes, 15 Shires, 20 Hackneys, 6 Suffolk Punch an 10 ponies—total, 237. From these seventy-five were conditionally passed by the Inspectors at the fall shows, but several have to be seen this spring. the fall shows, but several have to be seen this spring. Cattle entries -72 Shorthorns, 21 Herefords, 14 Polled Angus, 26 Galloways, 8 Devons, 32 Jerseys, 19 Holsteins, 60 Ayrshires, 3 Guernseys, and 4 fat cattle-total, 259. Of these 175 were conditionally passed at the fall show. Sheep entries -112 Cotswold, 63 Leicesters, 50 Lincolns, 94 Southdowns, 78 Shropshires, 8 Hampshire-Downs, 24 Merinos, 51 Dorset Horn-ed and 43 fat sheep-total, 523. Of these 350 have been approved of. Swine entries - 41 Berkshires, 10 Poland Chinas, 18 Chester Whites, 31 Improved York-shires, 18 Suffiolkf, s 24 Tamworths and 10 Essex -total, 152. Of these 150 have been approved of conditionally.

-total, 152. Of these 150 have been approved of conditionally.
In this issue Mr. S. B. Gorwill, Ballymote, divertises Shorthorn bulls. They are sired by the imp. Nonpariel bull Roan Prince, and their dans are from the Buchan-Tassie family as the state of the second second





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