Dr. Maria Montessori

RY 29, 1914



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VOL. XLIX.

LONDON, ONTARIO, FEBRUARY 5, 1914.

No. 1115

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VOL. XLIX.

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**EDITORIAL** 

It is "high living" that is proving costly.

Which should be encouraged agriculture or

All the extra winter work should be complet-

Parcels Post is bringing producer and con-

We sometimes look askance at the cost of a

Production carried beyond the point of profit

It may be and it is quite practicable to in-

crease production, but it is not always equally

feasible to increase net returns. Most producers

would readily make an effort to double the out-

put of their farms if they saw in it larger net

While the farmer is evolving a plan by which

he can profitably produce more abundantly, the

consumer might busy himself in battering down

a few of the walls which now separate him from

works the longer day, the farmer or the hired

his daily supply of farm produce.

does not appeal to the man on the land as the

most promising solution of Canada's vexed ques-

silo, but in what other way could so much valu-

able food be so well and more cheaply housed ?

sumer closer together in the United States, and

it will soon be doing so in Canada.

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No. 1115

## 1. Militarism in High Places.

George Washington's old maxim to be prepare for war as a means of preserving peace has been made the catchword of politicians, and a slogan for greedy makers of ugly weapons with which their dupes, who pay the bills. can kill each other. The militarism of Europe has been described as "organized insanity," and it has put a soldier on the back of every toiler in the land. The Mail and Empire the other day depicted Germany groaning under the most crushing war tax with which it has been burdened for a century, voted in the "dark" by the Reichstag under a bogus war scare "engineered by the Government", and "inspired most probably by the armament trust." The hellish fruitage of militarism lately bankrupted the Balkan states. destroyed the best of their population and ruined their agriculture for half a century. Greece is pleading with America to send back her sons to replace those butchered in the war. "The Farmer's Advocate'' finds within its wide constituency a growing apprehension of Canada's military program, and without regard to political affiliations strong disapproval should be plainly expressed to those on Parliament Hill. Strange to say Ottawa is not always the spot to learn public opinion at its best. "For that." said one high in official life. "I must get away from the capital to some rural district and talk with common men in their candid moments." Officialdom concerns itself with the mere humdrum of the duties or talks and thinks as "the bosses" would like, and "the boss" may be no true friend of the common people. "Keep your eye on There is a difference of opinion as to who Churchill" wrote the author of "Pillars of Society," a famous English book of last year. "He man. If they are both good men, it is more is soldier first, last and always. He will write than likely that each works long enough hours in his name big on our future. Let us take care he does not write it in blood."

## 2. Militarism vs. Agriculture.

and public health service not properly related to agriculture at all. The inclusion of the \$1,000,-000 from the new Burrell Fund ought to improve this year's comparative showing.

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## 3. War Phantom and Peace Reality.

We submit that there is no legitimate warrant for these enormous increases in militia outlay. The military policing necessities of this country do not call for them. The Greenlanders will not descend upon us from the north, and the one country from which a land invasion might come is the United States, our neighbor, akin, to the south, with whom we are joining in celebrating one hundred years of peace. If we have lived in peace for one hundred years we can perpetuate peace for a century or two to come. The possible causes of international disagreement are not likely to be more serious in the future than in the past, but less, and the conditions for peaceful settlement are daily growing better. When European nations are struggling to get loose from the grip of the war lords, why should Canada put her neck in the noose? Why repeat their follies? The notion that armed conflict is only to be averted by maintaining huge armaments is unwarranted and foolish. It cultivates the war spirit and rather promotes the likelihood of war. A high, gold-laced functionary once proposed that our three thousand miles of international boundary line should be lined with forts, armed and ready to fight. Saner counsels prevailed, but every now and then some misguided enthusiast or "scare monger" looms. up for whom there seems to be need for one:more official the military fool killer. 15 5000

## 4. The Lesson of the Veldt.

If it ever came to actual fighting, probably a lot of our architectural and professional militarism would go into the scrap heap as did that of the British army in South Africa a few years ago. A handful of Boer farmers, who had not been supported in public idleness, but who could shoot and take advantage of cover; put "the flower" of the British army in deadly humiliation, and it was not till her greatest and most seasoned generals were hustled to the front and the Boers outnumbered two to one that they succumbed. Their achievement was the wonder of the world. Whatever it has taught our war lords, it cost Great Britain the sum of £222,974,-000 to find out that a lot of their fancy war toggery was worse than useless, and the life bill was nearly 10,000 deaths, about 30,000 invalided and an untold tale of horrors.

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er's Advocate."

Failing concerted intervention by the United States and leading European Powers, it is surely a humiliating spectacle for the early years of the Twentieth Century that Christendom must stand by helpless while Mexico commits national suicide.

comparison with what he gets out of it.

cost of production in the Province of Prince Edward Island. They will bear a little study. The man who holds that it costs nothing to grow crops-that they are produced while the owner sleepeth, would receive a rude jolt if he digested these figures.

With a commission detailed to find it, and the House of Parliament with little else to do but discuss it, the real cause of our having to pay out more money to live than formerly should be discovered, and after the lengthy investigaton is over we shall expect a ponderous blue volume with the cause in detail. We hope the farmer is not at the bottom of it.

in 1914 than it was in 1913, of course, the farmer to serve, and the navy is yet mostly on paper. will be blamed. If the books were carefully an- With this big increase what better are we off? alyzed the increased expenditure would not be We are paying more to live. There is nothing found to have settled in the farmer's old leather pocket-book, but more likely in the vaults of the automobile manufacturer, the wallets of statement the outlay for "arts, agriculture and moving picture promoters, and the banks of the statistics" is only \$2,647,878.53, less than onedesignees and manufacturers of "the latest" direct from Paris. It is not what we eat that vice. The expenditure for agriculture is not makes us poor, but what we ride in, see and nearly as large as it looks. for it covers a lot Wear

A Churchill may not have arrived in Canada, but we are getting on nevertheless. Under the sword and bayonet heading in this year's Canadian Almanac, 31 pages are absorbed in recounting the militia officialdom, war service officers, royal military schools, colleges and A few figures are given in this issue on the camps that are dotting this young land in all directions. We see noble armories rising like mushrooms in wavering constituencies to the delight of the political candidates, contractors and heelers. A whole volume would hardly describe the paraphernalia, fuss and feathers of our official soldiering. The public accounts in the expenditure column recount the cost, a great deal of which might better be devoted to clearing the pathway of agriculture or by elimination lessen its burdens. Militarism diverts attention from agriculture, and has ever been an enemy of farming interests. Our 1906-07 (nine months) militia bill from the Consolidated Fund was \$3,347,037.87 with no item for navy service, but these had swollen for the year 1912-13 to \$9,114,533.09 for militia and \$2,086,049.45 for several years in If the yearly outlay of the urban home is higher which, by the way, the Canadian youth is loath feathery about the \$11,200,582.54, however, as the tax payers ought to know. In the same quarter that spent on the militia and naval serof outlay on patents, copyrights, trade marks,

#### ini (Data) 5. On the Wrong Trail.

After all the tumult and shouting and a fair perusal of the press and public deliverances, pro and con. "The Farmer's Advocate" can reach no other conclusion than that outside the immediate beneficiaries, there is no call for the big military propaganda, into which the schools are being drawn, that is going on in Canada, nor do the naval proposals awaken anything like enthusiasm, though there is an acknowledgement that Canada should assume obligations in relation to the care of its own shores as part of the Empire.

## 6. A Constructive Program.

This country has better use for men and money. The real program for the Canadian Government is not military but relates to the conditions of agriculture, production, transportation, a workable plan of aiding rural highway improvement and the more equitable distribution of rural and town populations. Indeed when we consider

## **The Farmer's Advocate** AND HOME MAGAZINE.

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#### Agents for "The Farmer's Advocate and Home Journal," Winnipeg, Man.

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the benefits to, be derived by the people as a whole, and the future vitality of the nation from the existence of a farming community, 1st, Contented because their conditions are equitable compared with those of other classes ; 2nd, Educated aright beginning in the public schools, and 3rd, properly compensated for labor and investment, one must confess to astonishment that so little care and attention by statesmen has been given to this, the foundation of all the nation's activities.

## **Opportunity Close at Hand.**

districts should be settled first. Land which from its rocky nature and scant fertility was never intended for cultivation should not be settled with that end in view, and undue advertising of it while better country lies idle is not in the best interests of progress. What can a man accomplish tied to a farm which will not grow anything, and surrounded 'by just such land and conditions which arise from it? There is an excuse for the tuan so situated not making good, but none for the man on good soil who neglects to make the best use of his land and his location.

Let us not think of this in provincial-wide scope, however. Take the matter nearer home. How many farms in your own locality have changed hands and their former owners have gone to new districts, while under new management the old farm has paid and paid well? And again mayhap there are still some farms half worked and unprofitable, manned with dissatisfied would-be-millionaires, if work and good management were not required to gain that end. We may not be cultivating more than one-seventh of our available land, and yet much of that small area now under the plow is not worked at the profit it should be. In many cases a smaller acreage well tilled would yield better returns than the large area "scratched over." Whether we go east or west or north or south in this Dominion there is land and opportunity, but it must not be forgotten that if located in a productive, thriving section of the older provinces there is, provided the same amount of energy is put into it as is done in the newer sections, plenty of chance to improve position, and if new fields are to be conquered they are often present near our own doors in sufficient number to warrant attention. Comparatively only a small area is cultivated, but our oldest fields have not yet been worn so threadbare that they should be discarded. They still will make a respectable appearance if well cared for. All the land of opportunity is not in the far west or the far north. Some of it is nearer home. When we have more people engaged in agriculture then will the area of cultivated land extend rapidly, . but not while all eyes are turned towards the city or towards other provinces.

## Nature's Diary.

By A. B. Klugh, M.A.

"The busy Nuthatch climbs his tree Around the great bole spirally, Peeping into wrinkles gray, Under ruffled lichens gay."

A little bird we see quite frequently in winter How often we do not make the most of our op- is the white-breasted Nuthatch, and its loud 'quank-quank-quank'' note is a cheerful sound in the winter stillness.

that when the tail is spread it shows a bruad white border on both sides. The feet are well adapted for clinging to the bark as the front toes are strong and the hind toe is very long and has a long sharp claw. The bill of the Nuthatch is really straight, but has the appearance of pointing upwards a little because of the upward curve of the lower mandible.

The name Nuthatch is derived from the habit which these birds sometimes exhibit of wedging a nut or acorn in a crevice of the bark, and "hatching" it open with the bill. As far as my personal experience goes with our two Canadian species this habit is a rare one, and it is a point upon which I should like to hear from readers of "Nature's Diary."

One winter a white-breasted Nuthatch furnished me with a good deal of entertainment. The next-door neighbors used to leave the slit in the double window of their pantry open, and keep their butter-dish just inside on the inner window This Nuthatch would come down from the sill. tree at the back of the house, perch on our fence, take a sharp look round, and then fly down to the window sill of the pantry. It would then take another look round, crawl in through the slit, peck out a piece of butter, emerge with it in its bill and fly off. I daresay the neighbors laid the blame on mice, particularly as one day the Nuthatch flew off with a piece of cheese.

This species is not only an interesting and cheerful friend in the winter, but it is decidedly beneficial as far as its food habits are concerned. Over half its food consists of insects and spiders, the rest being made up of nuts, acorns and large seeds. Mr. McAtee, of the United States Biological Survey, mentions it as one of the enemies of the Codling moth.

The white-breasted Nuthatch is a common resident in Canada from the Atlantic coast as far west as Western Ontario. The nest of this species is made either 'n the old woodpecker's hole in the trunk of a tree or it is cut in the rotten wood of a half-decayed tree by the birds themselves. Sometimes it is lined with hair and feathers, and sometimes leaves also are used as a lining. The eggs are from six to eight in number, and are white, spotted thickly with reddish brown.

The Farmer's Boys and Girls. Editor "The Farmer's Advocate":

What is the farm going to do for young folks? A few days ago I was running over in my mind the changes which have taken place in our neighborhood since we moved on the farm, now almost a quarter of a century ago, and I was startled to find that there are almost no young folks left here. Where there once were from three to five or six boys and girls in every farmer's family, now they have grown up and gone-where? Who knows? It would be a wonderful story if we could have it all written up. On these places, instead of boys and girls and young folks, we now find on one farm a man and his wife well past middle age; on another an old man with a maiden daughter for a housekeeper, but not a son left, although he had several; on still another man and his wife both well along in years, he cripple and she nearly blind, with no son C daughter to care for them, and so it goes, until one becomes almost discouraged thinking of the present and the still more important future and wonders what is to come out of this dearth of young men and women. The shops and factories of a city a few miles away have swallowed up many of these boys and girls, others have gone away to be teachers, while still others are now in professional life or away at college. The work is done very nearly exclusively by hired hands, who, as a rule, do not care much how they do it, if only they get their pay, or else by renters, whose object seems to be to get what they can out of the land and when it is exhausted go somewhere else and repeat the operation. On a good many farms of our township we may now find people who have the characteristics described by Prof. Ross in a recent article on the immigrant as being "hirsute, low-browed, big-faced persons of obviously low mentality," in every face of whom "there is something wrong. Very different are these men and women from the class of people who came to us in the past, who are now becoming the farmers of our country. What changes these people may work out in the course of time in the destiny of our country we must leave to time to determine. The point we are now considering is, that the boys and girls of the native settlers are going and their places being filled by a strange class of men and women, who are not governed as yet by the high ideals that once swayed the farmer folk of this nation.

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portunities or possibilities right at home. The President of the Bank of Commerce, at that institution's last annual meeting, placed emphasis upon the fact that including the new district of Patricia, Ontario's 14,000,000 of acres under cultivation represents only seven per cent. of her land area. Yet with all this land uncultivated and waiting the settler, all eyes have been attracted to the four provinces of the West, and the young people who did not go to the city went West. Why go West if there is an equally good opportunity in the home province? This applies to the other provinces of the East. Far off fields are green, and their verdure draws with such irresistible force that many easily overcome the diminishing pull of the old home section and fly away to make their fortunes. Some succeed; some fail.

What province is there in Canada, this great and growing young country, which does not offer plenty of opportunity to the energetic ? All the provinces have good land and poor, and every new settler or old in making a change should have a clear understanding of the district into which he goes-its advantages, its drawbaks, its assurance of success and its chances of defeat and failure. What is the use of locating people in sections of country in any of our provinces, the very character of which indelibly stamps those who live in them failures ? There is plenty of good land-productive land lying idle in our eastern provinces awaiting the sturdy settler, but the man looking for a new home must make the most of his time spent in choosing. The best

Most birds have at least some preference for keeping "right side up with care"; the Nuthatch has no such preference, right side up or up side down is all the same to it, and I am not at all



#### White-breasted Nuthatch.

sure but that it prefers the inverted attitude. This peculiarity has given it the name "Devildownhead" by which it is known in some locali-In color the white-breasted Nuthatch is ties. bluish grey above with white throat and breast and reddish underparts. The sides of the head are white, and a black cap extends back upon the neck. The wing feathers are dark brown edged with pale grey. The middle tail feathers are bluish grey like the back; the others are dark

Our young folk go from the farm for different reasons. Some of them are led away by the short hours and the attractive life of the shops and the mills. Some, have a natural bent tobrown and tipped with white in such a manner they do want to go, save that others are going ward other occupations, some do not know why

# Dr. Maria Montessori

#### **FEBRUARY 5, 1914**

and "it is so lonesome" here in the country! Still others, no doubt, do not find the work of the farm as pleasant as it should be because of some little friction in the home. But whatever the reason, they are going-yes, they have goneand now a new generation is coming on. What can we do to hold the young people on the farm?

We want these boys and girls; we need them badly, not simply for the work they can do. but for the good of the country. We do not like to think of it that the standard of citizenship shall be lowered, as it surely will be if something be not done, and done soon, to prevent it. What den we do?

In the first place, as it seems to me, we need to help the boys and girls to see that there is no better, no manlier, no more independent and withal any more profitable business in the world than farming. I know great fortunes are not made on the farm as a rule. Still, some men do get really wealthy in that calling. But neither is it a fact that everybody gets rich in the city. In fact, the proportion of the desperately poor is far greater in the city than it is in the country. If we are looking for genuine cases of suffering and deprivation, we do not look for them in the country; we seek the city paths and by-paths. There we are never disappointed. If we can get the young folks to see this we have made a good start.

Then, too, we are doing a good thing when we talk the farm up, not down. Far too often the father and mother by their complaining, faultfinding ways wean the boys and girls from the farm. They get sick and tired of hearing the farm always spoken of as a hard, thankless place in which to live. They go because father and mother have no love for the farm, and can impart no love of that kind to their children. When we speak of the farm, let us speak well of it. It is worthy so to be talked about. It is a fact that people live happier as a rule in the country than they are in the city. Sometimes we have to go and try the city and see what it is really like below the surface to help us to appreciate the farm as we should.

Again, farmer folks might well enter into the hearts and lives of the young people more than they do. The bridge between father and mother and son and daughter is too long. Let's shorten it up and make it easier to traverse! Why not talk to the boys and girls more about the things of the farm, always holding up the attractive and the sunny side? Why not take a real interest in the farm ourselves and not be always looking forward to a time when we can get away from it and become dwellers in the city? Those who are all the time uneasy, discussing the advantages of the life of the city, need not be surprised if their children soon take the road for the hot, restless, unnatural life of the town. For boys and girls are quick to take on the color of the life about them. Sunshine kindles sunlight in their lives. Shadows depress and lure away into the darkness. We do not set traps baited with vinegar to catch the honey bee. Sugar is what does it.

Other links binding the young people to the farm are good books and magazines. I would like to see a good farm paper in every home of our country. It would be a bond of the finest type. The educational value of such a paper can never be estimated. It is school, private adviser and spiritual counsellor. The man who publishes a good, clean, strong farm paper is doing more to mold the lives and the characters of the generation now here and the men yet to be than any other one agency, unless I may except the church. So let us give the boys and girls the best literature of this class we can, no matter at what cost. It is money well expended.

## THE FARMER'S ADVOCATE. THE HORSE.

## Fitting Heavy Horses for Sale.

There are usually two sides to a question. Where horses are the question upon which the discussion is based the two sides are closely defined by a conspicuous line of demarkation, as it was in the horse deal between the Deacon and David Harum. One side is towards the seller; the other is more conspicuous to the buyer. The context of this article is in the interest of the seller. Buyers beware!

"Condition" is one of the most important factors entering into the market value of horses. yet it is to a large extent overlooked by producers. They feel sure perhaps that the quality of bone, shape of shoulder and general conformation will sell the animal, but the average buyer of one or two horses is not yet as wise as he should be. A little flesh, a sleek coat and a round body look good to prospective buyers. The 'Scot'' in the Old Country does not price the colt that is roughing it in the paddock as quickly as he does the smooth horse in the stall. He has been fitted for a purpose.

Some individuals are ostensibly very much benefited by a period of fitting or fattening. It deepens the chest and flank, it thickens the thighs, it strengthens the coupling, it widens the croup and even improves in appearance the slope of the shoulder. In addition to this, it adds materially to the value of the horse through increased weight. An animal weighing fourteen hundred and fifty to fifteen hundred pounds may. in about one hundred days, be made to weigh about seventeen hundred pounds. Thus the arimal has been converted from a farm chunk into a drafter or heavy-drafter. Through test it was ascertained at the Illinois Experiment Station that gains could be made from 12.3 cents to 15.24 cents per pound. The gains were worth 18 to 20 cents per pound, so flesh could be laid on at a profit and at the same time enhance the value of the original animal. The food consumed was corn at 43 cents per bushel, oil meal at \$27.00 per ton. and oats at 35 cents per bushel. These prices will serve as a basis of calculation at the present time.

hand, but a ratio of one to eight existing between the protein and carbohydrates and fat is considered most economical. Some feed as often as five times a day, but the majority dispense the grain in three feedings. On full feed, horses weighing 1,500 pounds on the start will consume from 18 to 20 pounds of grain and from 12 to 14 pounds of clover hay per day. Where corn forms a part of the ration, twelve parts corn to four parts oats make a good combination with clover hay, while if timothy hay be used, one part of oil meal should be added to the ration. A ration of one part bran and four parts corn, along with clover hay, is a safe mixture, but bran can be indulged in to excess when clover is being liberally fed. They are both laxative in nature and impede the rapid laying on of flesh.

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Heavy horses are quite likely to stock in the legs, but in case bran and clover or alfalfa do not form a heavy part of the ration two bran mashes per week or some Glauber's salts mixed in the grain will allay the trouble. Fine-boned horses with quality will not demand the same attention in this regard, but drafters and chunks do not all possess these qualifications. A week or more will be required to put the colt into condition and during this time the an, mal should be exercised very mildly. The danger from azoturia is great when the horse begins to exercise in such a congested condition as exists after prolonged and quiet feeding. To lessen the danger it is wise to diminish the allowance of feed and administer a slight physic the day prior to any activity.

Idleness without exercise is not in the best interests of the horse, but it is usually the mature horse which is fitted in this way and less injury is done than would accrue to younger animals. However, that is the buyer's outlook and it pays the grower well to exhibit his stock with a sleek and glossy coat.

## Ground Grain for Horses.

Out of sympathy for the horse, many owners grind their grain, even if the animal evinces no displeasure in grinding it himself. In rare cases this is wisdom; in most cases it is folly. There is a "something" about grain which is lost in the grinding, and in order to observe the value live stock place upon the natural product watch

the avidity with which cattle attack the husk or cob of corn.

E x p e rimenters see nothing to be gained in grinding grain, and Lavalard, from his experience with thousands of cab and omnibus, as well as army horses, in France, declares it is not necessary to grind their grain, espe-cially oats. It was



## NDED 1866

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## Girls.

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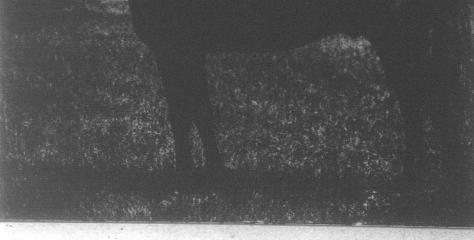
ownship we aracteristics article on low-browed, entality," in ing wrong. nen from the e past, who our country. out in the country we 'he point we ys and girls their places and women, high ideals his nation. for different vay by the of the shops ral bent tot know why rs are going

A few books of, his own, a pretty room with easy chairs, a table, a few pictures on the wall and a sunny outlook have kept the heart of many a farmer boy true to the country; while the girl who has a cosy corner all of her own, with bright paper on the wall, music, books and a writing desk supplied with pen, ink and paper will hardly feel like hunting the city over for a finer home,

If on top of all this father and mother are always bright and cheery, always living close to their children, giving them a part in all farm operations and studying with them the birds, flowers, trees and creatures of the great beautiful out-of-doors, who can doubt that little by little the tide will turn and the country become once more what it used to be and what it might be again, the dearest place to the young in all the world? These are not any of them hard things to do. They are the things every true man and woman will enjoy doing. And they are what will lift the home life of the farm up to the place it ought to occupy. Is it not worth doing? C. L. VINCENT.

It is said that there is romance in mixed farming. Quite true, and there is a little money

The large way and the second second second



A Good Morgan This breed is being encouraged in the United States.

Sec. 2 13 2 300.

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The management of fattening horses is different from that of other kinds of stock. They should be kept absolutely quiet and fed liberally. A test involving 20 horses, of which seven were not exercised and thirteen walked 28 miles daily for 84 days, showed that the exercised horses gain 41 pounds less or nearly one-half pound per day less than the horses at rest. So far as could be seen, the horses at rest maintained their appetites and good health as well as the exercised horses. In connection with the same experiment, horses were tied in narrow stalls and some were confined in box stalls. Those running loose gained 2.2 pounds per day as against 2.4 pounds gained by the horses tied in narrow stalls. In spite of these findings, some horses might do better in box stalls. It adds to their comfort and a coarse horse would stock less in the legs when allowed this small amount of freedom.

19 March 129 Mor

time in the stable, or when their teeth are poor, it is well to grind their grain. All small, hard grains, such as wheat, barley, rye and kaffir should always be ground, or, better, rolled.

With reference to cooked feed, the opinion also prevails that dry food is preferable. The time was when the feeding of sloppy stuff was consid ered a necessity in wintering brood mares, but experience has shown that, dry food is best. Even stallions formerly received their ration of boiled barley twice a week during the season, but that practice is now waning. Experiments have shown, however, that the addition of this material to the grain ration makes no appreciable difference in the manner in which the grain is digested.

There are cases, nevertheless, where poor texth will warrant crushing or rolling, but often they might be repaired by taking of the rough edges, Too often horses bolt their grain and no matter The ration should be governed by the feeds to what is done with it they swallow it unmasti-

and your service and

furthermore noticed that after a few months the animals preferred to crush the grain themselves. The Dominion

Experimental Farm at Ottawa has been the seat of some trials a long the same line and their conclusions are that where a mixture of cut hay and bran is fed to horses having good teeth, there. is, no advantage in grinding oats. When horses are hard worked and have but little

A few stones in their box or a thousand cated. and one other devices in vogue will prevent this to some extent and oblige them to get it more When the whole grain is thoroughly slowly. masticated the saliva which accompanies it into the stomach aids digestion very materially and offsets the hardship or labor suffered by the animal in breaking up and chewing the hard kernels.

Colts and old horses generally do best on ground grain, but for the mature animal with a good set of teeth grinding is of little value.

## LIVE STOCK.

#### Light and Ventilation.

Editor "The Farmer's Advocate":

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I am glad to note you are inviting a discussion of light and ventilation. I don't believe your valuable columns could be devoted to a better work than urging better light and ventilation, both in the stable and the home. From the best information we have, disease among our live stock is on the increase, and I do not wonder at it. Our own common sense, as well as the teaching of our ablest authorities on disease and health, tells us that sunlight is the greatest microbe and bacteria destroyer that exists and it costs nothing and without a supply of fresh air always available to be taken into our lungs and the lungs of our live stock (upon which we are largely dependent for our daily food) disease and physical infirmities are bound to increase. From careful observations as I travel from place to place, I will venture to state that the average stable hasn't more than one-quarter light enough. Some of the newer stables are fairly well lighted, but I think I am quite within the mark when I say that not ten per cent. of the newer stables are sufficiently lighted. One of the difficulties seems to be that very many are building their buildings too wide to properly light them in the centre. I think 40 feet to 44 feet is as wide as can be properly lighted and quite as wide as is convenient for storing grain and hay, threshing, etc. I also think for a stable, say 40 feet by 60 feet, there should be at least 120 square feet of glass to light it properly, and then the upper part of box stalls and mangers should be of iron or wire so as not to shut the light out from any

part While light is very important, fresh air is still Unless there is a constant supmore important. ply available at all times, the stock are taking into their systems the poisons that they have just cast off, which is bound to produce bad results. If we would be a healthy and robust race, we must attend to these matters. Diseased neat and unhealthy milk are the forerunners of discase and misery in the homes throughout our lands. The cheapest things we have within our reach are sunlight and fresh air. Let us see to it that we secure our fair share. Farmers who have their massive stone stables wonder how to get more light, but they wouldn't find it such a difficult job if they went at it with hammer, chisel and sledge. They could soon make openings under the windows that are already in existence, where they would soon have a space for a frame 3 feet or 31 feet by 4 feet. Another advantage with plenty of light and ventilation is, that lice and ringworm give but little trouble.

R. H. HARDING. Middlesex Co., Ont.

on an average with previous years, 139 head being shipped at £34.6.5 each. In 1912, 185 head went out at the then very good price of £75.12.9 a head. In 1911, the total was 136 and the average value £38,10.7. In 1910, the 212 sent out were worth £34.15.5 each.

All told, we sold 6,538 sheep in 1913 worth £99,449, or an average of £14.2.9 each. Canada's little lot were 424 worth £6.16.10 each, as against 21 in 1912 worth only £2.7.7 each. In 1911 she bought 374 for £6.2.1 apiece, but in 1915 took 381 at £5.8.1 each.

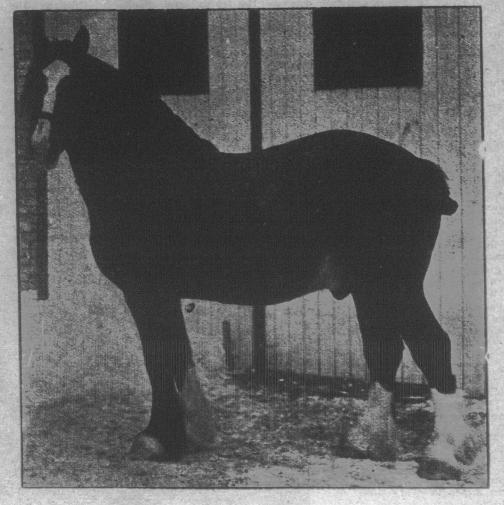
Of pigs we sold 1,355 head for £18,063, an average of £13.6.6. Canada took 37 head for £7.2.8 each, as against 11 in 1912 at £16.7.3; 22 in 1911 worth £15 each, and 21 in 1910 sold at £7.15.3 each.

Canada in 1913 sold us 169 horses valued at In 1912 the figures were 151 worth £3,120. £3,800.

A strong move is being made in Herefordshire and Shropshire to boom the white-face cattle of that area as milkers. Of course we all appreciate the success of the Hereford breed in the way of meat getting, which in the past has gone against the idea of the type being used for dairy purposes, but nevertheless Hereford cows may be bred to become goodly milkers. In producing a milking strain it is absolutely necessary that significant, it may be added that the applications for Shorthorn bulls considerably exceeded in number those received for all other breeds put together. In England, during the past two or three years, record prices for bulls and for cows of the milking Shorthorn strain have been paid both for home use and for export purposes. ln conversation a month ago with a man who may perhaps be considered as the leading breeder of milking Shorthorns in the United States, the statement was made that his business had been growing far beyond the possibilities of his herd. and that even at stiff prices he was unable to supply the demand for young breeding bulls.

FOUNDED 1866

What is the significance of these facts? If the market wants and will pay for beef, why this cry for milk? The reason is not far to seek. It is from the man who raises the steers that the demand comes. If this man has to debit his sixmonths-old calf with the keep of its dam, where is the profit to be obtained? It costs at least \$50.00 to feed a cow for a year; add to this the service of the bull, risk and other incidental items and a calf becomes a pretty expensive commodity when its mother weans it. That is the crux of the whole situation. The day of the iree range is over. The future of beef making depends upon the profit which can be made out of it by the man on the fenced farm. On high-priced



Cumberland Gem.

A 1,980-lb. Clydesdale stallion, by Sir Everest, dam Snip of Preston Hows. This good horse, owned by T. J. Berry, Hensall, Ont., is for sale.

land no dividend can be secured with cows that do no more than raise their own calves. If breeders of purebred cattle do not heed the judgment of the country upon this question and set their hands earnestly and consistently to the task that is now thrust upon them, we shall find the business of highclass beef making demoralized through the farmers resort ing to the use of dairy sires to cross u pon their cows. This is no vain The statement. practice is already being illustrated in several districts in Ontario to-day.

What then is there to do ? There are many bulls now being offered for sale with sharp shoulders and lean thighs which are thought to approach the type of dairy sires. They dairy sires. are being advertised as dairy Short-horns, Will they fill the bill ? By no means. You cannot make a dairy Shorthorn sire out of an ill-doing calf.

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## Our English Correspondence. BRITAIN'S GREAT MEAT IMPORT TRADE.

Compared with 1912, in 1913 the frozen carcasses imported into the United Kingdom show an increase of 10.5 per cent. in mutton, 4.2 per cent. in lamb, and a reduction of 3 per cent, in beef. The cause of the last named decline is accounted for to a great extent by the further development of the trade in chilled beef. The total imports of chilled and frozen meat was 720,-661 tons worth £26,662.896. The eventual disappearance of the United States as a source of supply to the British market had been anticipated some long time ago, but the actual cessation of exports in 1913 came with dramatic suddenness.

Britain's export trade in pedigree stock has been a wonderful one in 1913, and Canada has played a right royal part in buying in the very best of markets. All told, we have sold out of Britain stock worth £2,236,883. Of that total £1,783,215 must go to horses, which numbered 68,636, and hence were worth £25.59.7 each. That is a low price, but it must be understood that it includes thousands of worn-out horses sold to Belgium at an average of £11.8.1 each. These poor things made excellent cheap food for the penurious classes on the continent. The better class of horses sold to France, for instance, averaged £78.14.1.

We sold 4.580 head of cattle of the declared value of £274,297, or an average of £60.0.5 The Canadian domand in 1918 was about each.

both the sire and dam should be from reliable and known milkers. Many breeders of Hereiord cattle have kept milk production carefully in view. The system of allowing cows to suckle their calves is not favorable to the development of a large milk yield and this practice is very prevalent in Hercfordshire.

London, England. G. T. BURROWS.

## **Dairy Shorthorns.**

If there is one thing more than another which, in connection with the breeding of beef cattle, needs sane, clear, unprejudiced judgment, it is the question relating to the practices now to be followed in breeding Shorthorns. Is the Scotch type to be maintained? Are the traditions of the great Aberdeenshire breeders to be upheld? Are the standards set by the early pioneers in Canada to be continued? Or, to put the question in a more suggestive and perhaps a more truly significant way, are there to be any changes in the fashion as maintained by the breeders and developed in the show-ring during so many years and even up to the present time in Canada?

The demand for good beef stock has never been so keen as at the present time. Then, why give a second thought to this faddist idea of milk in Shorthorns? Yet, it is here to be reckoned with. Fully fifty per cent. of the applications received by the Department of Agriculture during the past year, for the loan of Shorthorn sires, represented definite requests that bulls of a milking strain be supplied. To make this statement even more

It is a question of breeding, not of feeding-though one might venture the statement that, in the case of some of the bulls now being registered, it is a matter both of the one and of the other.

Shall we then cast aside the tradition of generations and make of the Shorthorn a dairy breed? By no means again. We have already sufficient dairy breeds in Canada and to attempt to compete with the Holstein, the Ayrshire, the Jersey or others would be both unnecessary and unwise. I have myself had some little experience with a dairy Shorthorn herd and am inclined to think that, in comparison with the specialized dairy breeds, the Shorthorn will always prove a disappointment. We will admit what is being done in England. The Shorthorn is there bred for dairy purposes, and, in many cases, for dairy purposes only. I have seen herds in that country where the emphasis placed on high records, the general type of the cows and the object for which they were bred-milk for the London and other urban markets-clearly indicated that dairy interests predominated in the course which was being pursued. We do not, I think, want that in this country. We want rather a cow that will make beef making possible.

This last is a sentence which may be misin-terpreted and misconstrued, but I think the meaning is clear. Let me illustrate it, however, by reference to a comment made by a contemporary breeder on a visit to Mr. Thos. Bates, of Kirklevington fame. This breeder was shown the butter put up for the Newcastle market, and, thrown of his guard, was surprised into the re-



Coming Down from the Hills.

"You can go on breeding Shorthorns because they pay you in milk, butter and beef, Lut we cannot do so unless we sell them at high prices to breeders." The present situation is a triumph for Mr. Bates' foresight, skill and tenacity of purpose. His faith is being rewarded today in the demand for beef cattle that will milk. The history of Scotch Shorthorns has paralleled the development of free land in the North and South American continents. With the occupation of the free land a new era has dawned and a new type of cattle is being demanded. The infusion of Bates' ideas into the breeding of Scotch cattle will represent the Shorthorn of the

The demand from other countries, including the United States and Argentina, emphasizes the situation and indicates with growing clearness that the movement has now become one of general commercial and industrial importance. If I read the movement correctly the demand is not for an animal of dairy proportions and capabilities, but rather for a beef-bred cow with the fountains of her system so energized as to enable her not only to nourish her calf, but as well to allow a reasonable working dividend in milk and butter. Such is the type of cow which will pay her way on the ordinary farm and make possible the profitable regeneration of the beef industry in Canada. Such in substance is the dairy Short-

Perhaps a word is necessary as to how she may be produced. The problem is one which should attract and stimulate the best efforts of generation of breeders. tion will not require the investment of a prohibi tive amount of capital nor necessarily demand the importation of cattle from England or elsewhere. the Collings and Booth and Bates could make Selections from the ordinarily bred herds of their time and achieve such pronounced successes, it should be possible to use the cattle of to-day and obtain satisfactory and permanent results within a very few years in the direction of which we Very much will depend on the selection of the herd headers. Poultrymen have established that egg production is a sex limited character and that it is transmitted through the male. Out of the Barred Plymouth Rock has been developed a strain of fowl of high egg-laying capacity and yet eminently suitable for table use. may not say that the two cases are exactly parallel or that the same laws apply, but the illustration is to me very suggestive. Bulls tested out by a little careful work will, in all probability, furnish the key to the position. Given teef type with a natural proclivity to flesh and finish; coupled with these the legacies willed to him by a milk-yielding mother, together with a brain full of energy which he himself manifests with every movement of eye, head and body and you have found a sire not likely to disappoint you. Vigor and milk production are co-relatives. You cannot get the one without the other and a little red blood in a beast's veins won't do the meat any harm .- (From an address prepared by H. S. Arkell, Assistant Live Stock Commaissioner, for



## Artificial Fertilizers: Their Nature and Use - X.

By B. Leslie Emslie, C.D.A., P.A.S.I., F.C.S. FERTILIZER FILLERS.

The manufacturer's object in using a filler is two-fold : Firstly, it enables him to reduce the percentages of plant food, so as to produce lowgrade goods at a price to suit the farmer's Secondly, it prevents caking of certain pocket. materials and tends to keep the mixture friable during the considerable period, which ordinarily elapses between mixing and use. A farmer may be offered a fertilizer at forty dollars per ton, and another at twenty-five. He might choose the latter on account of its lower price, but if he can intelligently examine the analysis, he will usually find that the fertilizer at \$25.00 contains just half the amount of plant food present in the \$40.00 one, so that the \$25.00 goods represent one-half of the \$40.00 brand plus one-half ton of sand or other filler, on which he has to pay freight and the expenses of handling. Various materials, such as sand, limestone, peat, coal ashes, etc., are frequently used as filler

Let us refer again to the material whose analysis we have been examining. It contamed 32.8 pounds nitrogen, 160 lbs. available phosphoric acid, and 40 lbs, potash. This could be supplied by

218 lbs. nitrate of sona.

1.143 lbs. acid phosphate, (14% available phos.

These figures speak for themselves, and show how mixtures may be diluted.

EXTRAVAGANT CLAIMS MADE ON BEHALF OF CERTAIN FERTILIZERS.

We are reminded of a certain company, now defunct, that for several years conducted operations in Canada, having imported and offered for sale in Canada an organic substance for which they claimed extraordinary fertilizing properties. The analysis of the material showed a very low fertilizing value, but the sales agents of the company, who probably knew little of what fertilizers ought to contain, argued that the substance possessed some peculiar virtues, which could not be indicated in the analysis. Apparently they were successful in getting some purchasers to credit their story, which ultimate results, how-ever, discredited. A farmer ought not to purever, discredited. chase fertilizers impulsively on the strength of "fairy tales" or startling advertisements, but should bring his calmer judgment to bear on the selection of his fertilizer materials. Let him remember that the analysis forms the basis of valuation, and if he cannot figure the price out for himself he ought to consult some one who Startling headlines in fertilizer advertisements, while they may serve the purpose of attracting attention, ought not to influence the farmer's judgmeat.

## HOME-MIXING OF FERTILIZERS.

Arguments Urged for and Against the Practice .- Some manufacturers contend : 1, that the average farmer is not sufficiently familiar with fertilizers to be able to mix them intelligently; 2. that the farmer lacks the necessary factities (machinery, etc.) for thoroughly incorporating the various materials in the mixture; 3, that there is some mysterious beneficial cooling action, accompanied by chemical changes, which the materials undergo when being prepared in the factory.

The latter argument can only be successfully urged in talking to a man who has no knowled This absurd statement was made of fertilizers. recently by the representative of a United States fertilizer firm. but such ridiculously shallow arguments plainly reveal their motives. The argument, in fact, is not applicable to the case at all, since the cooking process described, repre-sents the treatment of phosphate rock with sulphuric acid in the preparation of acid phosphate. All fertilizer manufacturers, even. do not conduct this process of acidulation, but purchase the ready-prepared acid phosphate just as the home mixer can, so it is hardly to be expected that the farmer would ever attempt it. The other arguments, although apparently logical, may also be dismissed as unsupportable. In the writer's experience no very serious difficulty was ever encountered in getting a sufficiently fine and thorough mixture with the aid of the simple apparatus to be found on the farm. and the fact remains that those who have once tried out home-mixing rarely return to the exclusive use of ready-mixed goods. Many Canadian manufac-turers recognize this tendency, and cater to it by offering to supply their customers with the separate materials or to mix the latter in the proportions required for different purposes.

Arguments in Favor of Home-Mixing.--1, Economy: Usually about 25 per cent. of the cost is saved by purchasing the separate ma-terials. There is no useless filler to add to the cost of freight and handling ; there is no duty on the separate materials, whereas the farmer must bear the duty charges on the ready-mixed fertilizer, when these are imported from the United States

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acid.)

80 Ibs. Muriate of potasn

1,441 fbs. total weights of separate materials. 559 Ibs. filler added to make a ton.

2.000 Ibs

2. Assurance: The farmer who purchases the standard separate materials knows exactly what he is getting for his money, since he can rely on the regularity of the percentages in these forms and knows their degree of solubility.

3, Adaptation : With a stock of the separate



Shorthorns in the Shade Calves at Pasture in England

materials on hand, the farmer is enabled to make up his mixtures according to prescriptions, which he has prepared to suit the varying requirements of different crops, soils and other conditions.

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From this short resume each farmer may judge, whether, in his case, it will pay him to purchase the separate ingredients in preference to the ready-mixed goods.

We do not wish to be understood as condemning the use of ready-mixed fertilizers, but would caution the farmer, who prefers to employ the ready-mixed materials, to purchase these from a reliable manufacturer in Canada, thus avoiding the payment of duty on the same. Let him purchase only high-grade brands, 1. e., those showing the highest percentages of nitrogen, phosphoric acid and potash in the analysis. compliance with the requirements of the Dominion Fertilizer Act. as already stated, the guaranteed analysis of the fertilizer must be stenciled on the sack or printed on a fag attached to the same, which tag also bears the number under which that particular fertilizer has been registered at Ottawa, as a means of identification. For the farmer's guidance in purchasing ready-mixed fertilizers, he may obtain from the Inland Revenue Department at Ottawa a bulletin, en-titled, "Fertilizers as sold." In this bulletin are listed most of the fertilizers offered for sale in Canada, and the guaranteed and actual analysis of each is shown.

#### MATERIALS GENERALLY EMPLOYED IN COMPOUNDING HOME-MIXTURES.

The following are some of the more popular sources of nitrogen, phosphoric acid and potash:

Nitrogen .--- Nitrate of soda. 15% nitrogen; sulphate of ammonia, 20% nitrogen ; dried blood, 12% nitrogen.

Phosphoric Acid.-Acid phosphate, 14% or 16% available phosphoric acid; steamed bone flour, 22% available phosphoric acid; basic slag, 18% available phosphoric acid.

Potash .- Muriate of potash, 50% actual potash; sulphate of potash, 48% actual potash; kainit, 12.5% actual potash.

#### CONDITIONS INFLUENCING CHOICE OF MA-TERIALS.

Something has already been said in previous articles on the adaptability of certain forms of fertilizers to special conditions of crops and soils. For instance, peaty or swamp soils, containing a large quantity of vegetable acids, ought not to receive fertilizers of an acid nature; hence for such soils basic slag, as a source of phosphoric acid, may be preferable to acid phosphate on account of the free lime of the slag tending counteract the acidity. It is noteworthy, however, that a large number of peat soils in eastern Canada contain fairly high percentages of lime, and experiments conducted on these have not shown any superiority in favor of basic stag. The latter material, however, is valuable for ap lication to heavy clay soils for reasons already On soils inclined to excessive moistness stated. sulphate of ammonia will be a more suitable form of nitrogen than nitrate of soda, since the former, being less soluble, is not so readily leached out. On peaty soils or where a large amount of vegetable matter is present as a result of heavy manuring, very little or no applica-tion of nitrogen may be necessary. For potatoes, tobacco and sugar beets, potash ought to be applied, as a rule, in the form of sulphate of potash.

## A Barn for Seventy-five Acres. Editor "The Farmer's Advocate"

I am sending a description and plan of our barn and stable, which I find suitable for a 75acre farm.

The barn is 42 feet by 60 feet with 16-foot posts and a hip roof. The driveway is 14 wide. with a 20-foot mow on one side, and feet 26-foot mow on the other. The granary is feet wide. The off the 26-foot mow, and is 18 feet wide. stable wall is solid concrete, ten inches and nine feet by four inches from floor to floor. There are 13 windows and six doors with transoms over five of them. Each window has two panes two feet square, which provides abundance of light. The position of the windows and doors can be seen in the plan.

The horse stable is in the west end of barn, (this end being nearest the house), and it takes up 17 feet. There are five stalls and a box stall, and their widths are given in the plan. The The wide stall is also used as a hall to go through to the feed hall.

The cattle stable runs lengthwise, and there are two rows facing each other, with a feed hall seven feet wide between them. Each row has ten stalls .. The cow stalls are three feet six inches wide, and are nearest the barnyard. The other row is for young cattle, the stalls being only three feet wide. Then behind this row is a box stall, root cellar and milk room. Their position and dimensions are indicated in the plan. Each row of cattle takes up twelve feet eight inches over all-mangers two feet, cattle stands four feet eight inches. gutters 16 inches, walks four feet eight inches. These figures are for steel walls and stanchions, otherwise the cattle stands would have to be longer.

writers in "The Advocate," but finding these too slow, we sent a man around during the day to select barns for us and get the permission of the owners to go into the barns at night. We took ten men, placing two men with a lantern in each gable of the barn; then two or three men acted as beaters and chased the sparrows out of the hay or straw or wherever else they were roust-They, of course, flew to the light in the ing. gables, the rest of the barn being in darkness, In about twenty minutes the bulk of the sparrows in the barn would be caught. We got as many as two hundred and seventeen birds in one barn. At the end of the time the winning side had 3,972 and the losers 2,109, making a total BERT MELLOW. of 6,081 sparrows. Peel Co., Ont.

FOUNDED 1866

#### Cutter Riding vs. Automobiles. Editor "The Farmer's Advocate":

In your issue of January 15, 1914, an article appeared headed "Cutter Riding," composed by Peter McArthur. As far as I am able to discern, the main lesson to be learned from perusal of the article is that good roads are a blessing and automobiles are a terrible nuisance. As far as good roads are concerned, we all admit they would be beneficial to every user of them, but I

think that there are some at least who would not class all autos as a nuisance. I notice that hefore Mr. McArthur got home he had an accident caused by his own dog, and I expect to see an article next week on the dog nuisance, which would give a large field for one of his compositions. I am a subscriber to "The Farmer's Advo-cate," and while not

a farmer, am interest-

ed in anything that

works for his welfare,

as the farmer is the

man most of us de-

rive our living from,

and, by the way, he

(the farmer) would not

fare very well if we,

who are not farmers,

did not consume nis

produce. I think as

Mr. McArthur does re-

garding good roads,

but I entirely disagree

with him when he re-

fers to all autoists as

speed maniacs, etc.,

for while there are

some people driving cars who are inconsid-

erate of everything and

everybody except them-

selves, I don't think that all should be

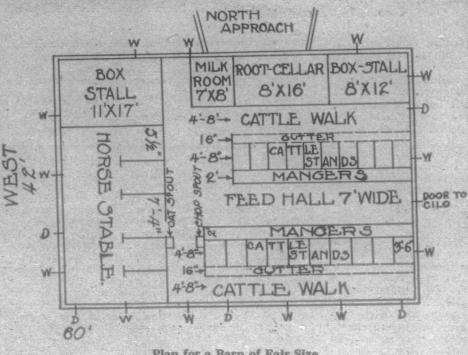
drive a car im may busi-

ness and pay a special

tax for using the

roads, but I mever

classed as such.



Plan for a Barn of Fair Size.

side of the driveway. For the cattle it can be thrown down between the rows, and for the horses in front of them. and opposite the short ' nearly 5,000 miles the past year and I find that row of cattle. Two feed spouls come down from the granary, the one for chop and the other seem to think they have a right to the beaten plan for posit

take any chances of Feed and bedding can be thrown down either causing an accident, nor have I ever yet seen an accident due to a horse becoming scared at an auto. I might say that I have driven a car a large percentage of the people driving horses track whether they have a load or not, but the law says that they have not, and they will stay there even after repeated warnings until the person running a car is in no frame of mind to give them much consideration. This does not include all who drive horses on our roads, but I would infer by the tone of the article referred to that the writer of that article from his antagonism towards autos might be in that class. The dog he refers to as scaring his horse, and thereby causing an accident, no doubt is related to dogs all over the country, for they seem to have a habit of running out and scaring horses, as well as annoying autoists. No doubt some day Mr. McArthur will own a car and then he will be able to see two sides to the question. A CONSTANT READER.

## FEBRU

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#### Nort Editor

Alth leading advisi the se possib this V until will g believ with vestig izes t perier ing s Farm single cents year

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#### PRECAUTIONS NECESSARY IN MIXING FER-TILIZERS.

Basic slag or quick lime ought never to be mixed with sulphate of ammonia, since the free lime in the former will combine with the sulphate part of the latter and the valuable ammonia will escape as a gas. This loss is readily detected by the odor of ammonia. A mixture of acid phosphate and nitrate of soda ought not to be stored for a long period in sacks as the material will cake and the sacks rot away.

Acid phosphate may not be mixed with guick. time or basic slag, since the lime will tend to revert the water-soluble phosphoric acid to the less soluble forms.

The potash salts may be mixed with all other fertilizers, but a mixture of basic slag, and either kainit or potash manure salt ought not to be kept over twenty-four hours ; otherwise the mixture will become as hard as cement.

In the next article methods of mixing and applying fertilizers, as well as prescriptions for various crops, will be given.

(To be continued.)

Canada's cattle herds are being depleted. It is to be hoped that the cleaning out will mean a smaller percentage of inferior animals. Unfortately very often under such circumstances the owner is prevailed upon to part with the best, If high prices tempt, it is always advisable to start at the most inferior animals of the lot. Do not offer the choicest, they are worth as much on your farm as on that of another,

Sec. 1.

In the milk-room is a drain which is very handy when cleaning out. An opening through the floor with a grate over it, and a row of three-inch tile underneath the floor and running through the wall, at a point where the ground is a little low, is all that is required for this.

For ventilation there is a four-inch tile placed in the wall below the floor level, connected with a row of tile running underneath the hall floors, with openings through the floor every eight or This is constantly bringing in frésh ten feet. air. The transoms are also used for bringing in fresh air, being hinged at the bottom so as to throw the draft up. The windows are also hinged and can be opened if necessary. A sliding door at the top of the stairway and the feed chutes serves as outlet for impure air. This is a very simple ventilating system and it gives good satisfaction.

Brant Co., Ont.

F. WESTBROOK.

#### **A Sparrow Hunt.**

Editor "The Farmer's Advocate":

Having been a reader of "The Farmer's Advocate" for many years, I have read a number of articles in your columns on how to get rid of the sparrow, all of which have been tried with varying success. In our district we took sides, the seventh and eighth concessions to compete against the ninth and tenth concessions of Albion Township to get the most sparrows in ten days, the losers to provide a fowl supper. At first we tried shooting and various traps as suggested by

Sat State

Kent Co., Ont.

### For Leaky Pipes.

Editor "The Farmer's Advocate":

I have seen so many "good things" in your valuable paper that I thought I'd just pass one

on also, Re "Leaky Pipes": If your correspondent will go to a hardware dealer and get a "sleeve pipe" and place it just above the length with the damper in, I think his troubles as to pipe "leak-ing" will be over. Keep the "sleeve" open when once the fire burns up well. It is a great saver of fuel also and an excellent ventilator. We have four stoves in the house and have "sleeves" on all of them and not a "leak" in one. The strong draft through the hole in the sleeve pre-

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FEBRUARY 5, 1914

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## THE FARMER'S ADVOCATE.

## vents the smoke condensing. Hold a lighted match in front of the open sleeve and see what A CONSTANT SUBSCRIBER. happens. Muskoka, Ont.

## Northern Grown Alfalfa Seed Best. Editor "The Farmer's Advocate":

Although a great deal has been written by leading agriculturists in the different journals advising that more attention should be given to the seed sown if the farmer is to reap the best possible results, yet there are many who give this very important matter little or no thought until they have suffered a severe loss. Then some will give up in despair and say, "It is no use," believing chances are against them, while others with a stronger determination will begin to investigate. It is only then that a grower realizes that he might have profited by other's experience, possibly that of a neighbor or by reading some good agricultural journal, such as "The Farmer's Advocate," in which very often in a single issue there are articles that in dollars and cents are worth the subscription for ten or filteen years to the observant farmer.

Having had considerable experience with alfalfa, I wish to confine my remarks to it alone. While attending the Fat Stock Show in Guelph in December, 1911, I happened into the lecture-room while Prof. Zavitz was explaining the results of some of their experiments at the Ontario Agricultural College. Among other things, he spoke of the great importance of securing seed capable of standing our severe winter weather. They had proven by their experiments that Ontario-grown seed was giving best results. In giving results from seed grown under different climatic conditions, it was evident that those seeds from the south gave the most unfavorable returns. Having eight acres which had previously been seeded to alfalfa, and which was broken and a crop of corn taken off in 1911 which we intended sowing, advantage was taken of this information and northern-grown seed procured. About the first of May the ground, which was plowed in the fall, was worked to a good tilth, the seed (15 pounds per acre) with a nurse crop of Daubeney oats and Mandscheuri barley half and half, about one bushel per acre. However, our alfalfa seed ran out when about one-half an acre was still to sow. We secured the balance from a local seed merchant of equally as good looking seed in every respect, sowed under the same conditions. The early part of the season of 1912 was very dry and the alfalfa on the whole field was anything but promising. However, it was evidently living, when the rain came it pushed right ahead. for and after the grain was taken off you could not wish to see a nicer catch. No difference could be observed where the two varieties were sown, nor until the end of the season. Early in the spring of 1913 a difference was discernible. In the half-acre strip it appeared that at least onethird was killed, and during the growing season the plants that were left had an unhealthy appearance. The balance of the field was all one could expect. The dividing line was just as straight as the drill had been driven. So mamfest were the conditions, that I concluded not to sow seed that I was not satisfied was home or northern grown, even if it could be secured at half price. Through being unable to secure the desired seed in 1913 we refrained from sowing another field which we were very anxious to sow to alfaita. In sowing the undesirable seed we lose the price of the seed and the use of the field. I firmly believe this is one of the greatest reasons why so many have failed to secure good JNO. R. PHILP. stands of alfalfa. Grey Co., Ont.

## **Results from the Use of Artificial** Fertilizers on Roots and Other Crops.

#### Editor "The Farmer's Advocate" :

The use of artificial fertilizing materials appears to be spreading very rapidly among the farmers of the older provinces of the Dominion, and there is no doubt that as time passes they will become more and more of a necessity. The high price of labor, the rising value of land, and the increasing cost of production, render it more imperative that farmers obtain more and maximum yields from all crops. The scarcity of help very much limits the supply of barn-yard manure, and it is only by the free use of ferti-



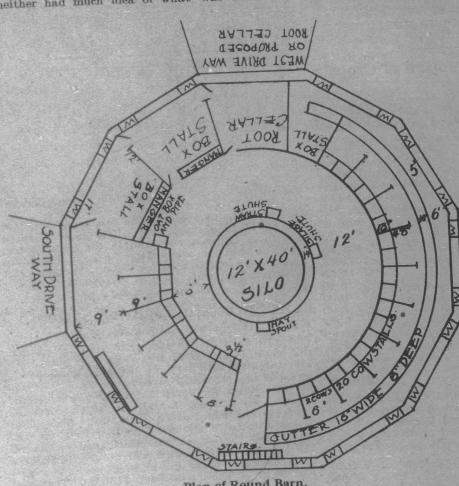
## A Round Barn in Course of Construction.

lizers that we can hope to give all the farm a taste once in five or six years. While no one can tell exactly what will suit any particular soil, without actually testing and finding out by experience, still we know in a general way what the special requirements of the various crops, and with this knowledge and experience of others for a guide, we need not go very far astray. Last year the writer was discussing the use of fertilizers with a gentleman who was engaged in market gardening near Guelph. An agent of one of the large packing houses was trying to sell him some fertilizing material, but neither had much idea of what was most suit-

weeks ago I met the same gentleman again and he reported results. A certain number of rows of potatoes were treated to an application at the rate of 600 lbs. to the acre. Other rows alongside received none. The crop was carefully dug and weighed, and it was found that the rows where the fertilizer was used yielded 80 bushels per acre more than the others. The cost of \$7.80 per acre for fertilizer made the cost of increase less than eight cents per bushel. Four rows of corn were treated at the same rate. Eight rows were sown without any. The corn was pulled green for sale, and careful count was The four rows that received the fertilizer yielded more marketable ears than did the other eight that received none. An increase of 100 per cent. For all these increased yields, there was never any apparent difference between the fertilized and unfertilized, so far as could be judged by the eye, showing the absolute necessity of using the scales and measure. In this case no other manure was used. My own practice has usually been to use fertilizers along with a moderate dressing of barn-yard manure, and for roots this is probably the best plan. Many consider that potatoes are of better quality when grown without a direct application of manure; using artificial fertilizers only, and I believe equally good yields may be obtained, but of course a much heavier dressing will be required. Using about twelve loads of manure per acre

300 lbs. of acid phosphate has increased the yield of potatoes 70 bushels per acre; cost \$3.00, not four and a half cents per bushel. If for any reason I do not apply any barn-yard manure, then I use the potash-phosphate mixture. In 1912 a dressing of 800 lbs. of potash-phosphate (ten per cent. phosphoric acid, five per cent. pot-(ten per cent. phosphoric acid, nve per cent. pot-ash) per acre gave me far and away the best crop of potatoes in the field, without any harn-yard manure whatever. The rest of the field re-ceived about twelve loads per acre, with from 250 to 300 fbs. of artificial fertilizer, various materials being used, some special potato mix-tures but mostly acid phosphate alone. One tures, but mostly acid phosphate alone. One "potato special" was a complete failure, and an-other was of doubtful value as compared to the phosphate, although its cost was almost double. However, in the barley crop the next year, the "potash special" certainly scored, as the straw was fully six inches taller, and the strip where it had been used could be plainly seen

across the field.



Many farmers imagine that the effect of artificial fertilizers is confined to the first year and to the crop, but this is a great mistake; they have a very marked effect on the succeeding grain crop, so much so that I believe it alone would pay the cost of the application. But it is not even confined to the first two crops; last summer, just when the timothy was heading out, early one morning while the dew was yet on the grass, I could see quite plainly, where the fertilizer had been used two years previous ly, and where it had been omitted. In this case the first crop w potatoes, treated to 800 Ibs. per acre of a cid phosphate, followed b barley, seeded down with clover and timothy, but clover was winter killed. leaving the grass alone. For turnips, with a moderate dressing of barn-yard manure, acid phosphate alone will give splendid returns. Twelve loads manure with 300 lbs. phosphate sown just before the land is "drilled up," gave me from seven to nine tons per acre more turnips, than the manure In fact I find

## A Round Barn.

Editor "The Farmer's Advocate":

I am sending you the photograph and plan of our new round-plan frame barn built in 1913. It is 68 feet in diameter and 216 feet in circumference. It has a silo 40 feet high in the center, 8 feet being cement upon which the sleepers rest. The remainder of the silo is built of wood. The roof is of metal. It is on a stone wall 20 inches thick. The building is cemented throughout and lighted with eighteen windows. The cow stable is fitted with eighteen windows. The cow stable is fitted with metal fittings, consist-ing of twelve iron 'posts, cow rail and twenty stanchions. A fine big feed room will be noticed " right around the silo. I have worked in many square barns, but none as handy as this. ' Another feature of this barn is that it went up so easy-no big raising. Five carpenters, myself and son and one neighbor did the work. D. A. CLENDINING.

York Co., Ont.

Plan of Round Barn.

Naturally the agent was partial to some of the higher-priced mixtures, and perhaps equally so the would-be purchaser thought the cost too high. The gentleman in question had an old strawberry-bed that he wanted to plant with potatoes or corn. Now, the decay of so much vegetable matter would set free considerable nitrogen, so that it would not appear necessary to supply any in the fertilizer. Nitrate of soda being one of the most expensive ingredients of most mixtures, and probably the commonest source of supply of nitrogen, its elimination meant quite a saving in cost. Finally a potashphosphate mixture was purchased, the guaranteed analysis of which was ten per cent. phosphoric acid to five per cent. potash. Cost laid down at station, \$1.80 per 100 pounds. \_ Two or three

alone. In fact I find from actual test that it takes about twenty tons of barn-yard manure to equal from actual test. the 300 lbs. of acid phosphate. A very great advantage I find in using the phosphate for turnips, is that I can grow a full crop of oats after them. I know some farmers who have ceased growing turnips, because, as they say, they are so hard on the land, but it looks as though it was the phosphoric acid that they are hard on, and if an extra supply of this is furnished, then the land is in splendid condition to grow a big crop of grain.

Mangels are the only roots that I have found respond very distinctly to a mixed fertilizer than to any single element. Neither phosphate, potash or nitrate of sode, used singly, have had sufficient of sode is section applies tion sufficient effect to pay the cost of application,

but a special mixture for roots, with a guaranteed analysis of three per cent. nitrogen, eight per cent. phosphoric acid, increased the yield seven tons per acre; while the potash-phosphate mixture, previously mentioned, gave just six tons of an increase at a cost of \$3.50. An experiment conducted at the same time, to try and ascertain the amount that it was most profitable to use per acre, while not at all conclusive, rather pointed to a moderate dressing as being the most profitable. The amounts used were at the rate of 250 lbs., 800 lbs., and 1,200 lbs. per acre, and three different fertilizers were used One fact was very obvious, the increase from 800 lbs. to 1,200 lbs. was entirely thrown away, it having no effect whatever. In two of the series the increase from 250 to 800 lbs. only increased the yield one and a haif tons; barely enough to pay for the extra fertilizer, and, therefore, not profitable. In the other the increase was over six tons, but, in this case it was so large, especially when compared with the adjacent plots, that a doubt is thrown on its being all due to the fertilizer, and I do not put much weight on it. Had no barn-yard manure been used, it is probable that the larger applications would have given the best returns, but with it, it appears that from 300 lbs. to 400 Ibs. per acre is likely to be the most profitable quantity to use.

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Rape is like turnips, and a light dressing, 200 to 300 lbs. per acre of acid phosphate will give handsome returns. In a very dry summer, like the past one, it may make all the difference between a good crop and no crop at all. Acid phosphate seems to have a wonderful effect in extremely hot, dry weather; it will keep the young plants growing and healthy, when without it they would, many of them, perish altogether. I have noticed this effect on turnips, rape and millet.

On fall wheat, while potash and phosphate are each of considerable benefit alone, a combination of the two gives decidedly the best results. Nitrate used alone has little or no effect, but in combination with the other two, seems to be of considerable use in promoting growth while the plants are young.

The soil on which these results have been obtained may be described generally as sandy loam; a heavy clay soil would ooubtless require somewhat different treatment, and a similar soil in some other district might also not respond There is room for much experijust the same. mental work, and to those who have a taste for it, it will be found extremely interesting.

ALFRED HUTCHINSON.

Wellington Co., Ont.

#### Cost of the Production of Crops. Editor "The Farmer's Advocate" :

At the Short Course held during the first three weeks of January in Prince Edward Island the cost of the production of farm crops came up for discussion and the following was agreed upon as being fairly accurate for the whole Province. The average yield of oats in Prince Edward Island is about 37 bushels per acre, but a great many farmers are raising over 40 bushels, and for case in calculation, it was decided to take 40 bushels per acre as the yield. For a ten-acre field, the ordinary field of the Province, the figures were as follows:

Rent \$35.00 

would leave \$15.00, as stated above. Again \$2.00 should be deducted for the hauling and spreading of the manure that is charged against following crops, so that the acre of turnips would cost \$41.37. The average crops in Prince Edcost \$41.87. ward Island for the last few years has been about 600 bushels to the acre, so that the cost of growing turnips in this Province, as agreed upon by the students of the Short Course, is a little under 7 cents per bushel. T. R.

### A Remodelled Barn.

Editor "The Farmer's Advocate" :

P. E. I.

I am sending you herewith plan of barn and stables in~use on the one-hundred-acre farm of A. J. Henderson, Durham Co., Ont.

The barn is built in a bank running north and south, leaving ground almost level with the floors. The barn was overhauled in 1908, there having been two separate barns, thus the stone wall partitions. Litter carrier is used in stables and slings in barn. There is a well west of barn with a supply tank beside it, which supplies water for basins in front of cows, and trough at cow stable door, water is pumped by a windmill. The cement tank, at the northwest corner of barn, which holds water off the barn supplies, tap in the pig pen and trough in shed.

The door in the horse stable is wide enough for a team to go through, while a three-horse team can go through doors in shed, which is handy when cleaning out with a spreader, as the shed is kept bedded and quite a lot of straw is tramped down.

There is a small door at east end of the pig pen for pigs to go through into yard. In the barn there is a V-shaped box with a pipe in bottom which goes down into hen-house, saving a FOUNDED 1805

## A Lighting System Described.

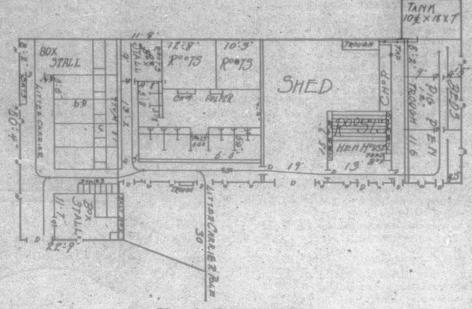
Editor "The Farmer's Advocate":

I am pleased to submit to "The Farmer's Advocate" a description of my lighting system. I installed acetylene in my house and barns, he cause, if properly handled, I consider it the same light that can be used, and when I say property, I refer to its use in — generator, and the carry-ing out of the instructions given by them at the time of installation. These instructions are indeed very simple, and one cannot make any min take in following them out as the generator so constructed as to make mistakes impossible and accidents could only occur if some person de-liberately set about to destroy the working of such generator. Per candle power, it is even cheaper than kerosene. The fire insurance com-panies accept it as an A No. 1 risk and at me increase in the premium. It is the easiest krown light, other than sunlight, on the eyes, because it is a pure white light, different from kerosene, or city gas, both of which give an abundance of red and yellow rays, which are injurious to the It does not vary in intensity, or in other eyes. words, does not go up and down, and therefore does not require a continual focusing of the eves. which is the great cause of eye strain and kip dred affections. It never goes out if the supply of carbide and water is kept up, where electric It never goes out if the supply lights may during wind and electrical storms, or other conditions causing short circuit. It does not cause as much impurity in the atmosphere of the house as do most lights, as it gives of me soot, uses up less oxygen, and gives off less car-bonic acid gas. It is easy to instal, no exposed piping, does not deface the walls, can be used the same as electricity with a push button to be put on and off, can be lighted downstairs and put out after going upstairs. In fact it can be used any way electric lights can. It cannot be turned too high, but can be turned down as low as desired.



in summer it has

Plants thrive wonderfully where it is used and silverware does not tarnish as with other gas lights. The gas acetylene is not poisonous, will not even produce a headache if allowed to escape, gives off no edor if properly installed, but if leaking gives off a strong pungent odor, which is a salety device itself, and shows the necessity of fixing the burner or piping, and this same odor is sufficient in itself that one can follow it about the room and detect the very place from where it is escap ing. It is said on good authority that an or dinary bedroom gas jet, if left open during the night, will not ignite if lighted in the morning after its escape all night. Nevertheless, acetylene gas is explosive under certain conditions, as are kerosene, gasoline, city gas, and so does electric wiring produce fire, but if properly handled, knowing that the above conditions are true, no danger can come from any of these forms of lighting, and least of all acetylene. The fixtures are made as all other gas fixtures, in very handsome designs, as domes for dining-rooms, three to sixlight chandeliers, with handsome white or coloredglass globes, reading lamps, lamps for reading in bed, in fact every style and kind of fixtures that one could wish for and for this reason one can select according as his circumstances will permit.



Plan of a Remodelled Barn.

lot of feed carrying. The box is at the east side of north granary door. There is a small mow over the east box stall in the horse stable, which is used for cut straw or corn. The house over the cistern is used for collars, blankets, etc. Durham Co., Ont. L. HENDERSON.

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Rolling man and and have have and	2:00
Seed	15.00
Cutting and twine	9.00
Stooking	2.00
Storing	5 25
Threshing	12.00

\$106.25

\$43.37

The ten acres were to yield 400 bushels, so that 26.6 cents per bushel would be the cost of growing oats in Prince Edward, Island.

In the same way the cost of growing one acre of turnips was figured out as follows:

Rent	3.50
Manure	
Plowing	1.12
Harrowing	.75
Ribbing	.50
Spring work	8.00
Spring work	2.00
Spreading manure	1.00
Seed	.60
Sowing	.90
Scuffling	1.50
Hoeing and thinning	6.00
Harvesting	7.50

In the case of the manure, 30 loads was to be put on the acre at \$1.00 per load delivered in the fild, but it was considered that only one-half of it should be charged to the manure crop, which

## A Successful Lighting System. Editor "The Farmer's Advocate":

I will describe our system of electric lighting. Our plant is known as the — lighting plant. We are delighted with it. We use a 23-horse power gasoline engine, which gives power enough to sup-ply electricity for forty 15-candle power lamps. We also do pumping for all our stock and the churning and many other light jobs. This plant is an automatic starter. You switch on the lights and the engine will start, and switch off You switch on the the lights and the engine will stop. It is the most complete thing I ever saw; we have a perfect light. The plant cost \$750.00. Then we paid for wiring the house and barn extra. We have thirty-five lamps, 15-candle power, in dwelling house, barn, stables, hog pen, power house and dairy building.' I farm 300 acres of land. keep twenty-five cows, and we find electric lights more valuable in the barn and stables than anywhere else. We feel safe from fire, as electricity is much safer than coal oil. It costs about \$1.25 per week for gasoline as an average for the year for all purposes. I have a building erected between my house and barn, sixteen feet by thir-ty-two feet, with line shaft from end to end. This building is divided into three parts, with power house and workshop combined. Next to it in this is the dairy; then pump house and  $\nabla a$ ter tank. This plant has made farming a pleasure, instead of drudgery, W. H. LOBB. Huron Co., Ont.

#### THE ACETYLENE PLANT.

The generator that I have in use is the Model B. fifty-light generator, made by a company whose plant in Canada is situated at Niagara Falls, At this plant are manufactured all Ontario. parts as well as the complete generators and accessories, thus there is no delay in securing any extra parts if required, which is a great advantage to the user. The generator is a little larger than a large-sized base-burner coal stove, weighing about three hundred pounds, built of heavy galvanized steel, and resembling somewhat a large

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milk can, with a smaller one inverted and placed inside, bottom up. Upon this so-called bottom, which forms the top of the generator, is a motor, which is wound up, and is run down with weights lise the weights of a clock, as the gas is used from the generator; when the weights reach the ground, it indicates that the generator requires to be refilled. The motor and the weights operate the hopper, which is the receptacle of the carbide, and while the motor works, small pieces of carbide, known as nut carbide, are allowed, by the turning of the hopper, in which small runways are provided, to drop into the water, The dropping of the carbide into the water at cnce forms some gas and after so much gas, according to the size of the generator, is made the gas bell rises, and in so doing pushes up a lever attached to the motor, which automatically shuts it (the motor) off and no further gas can be made until it is used up in lights.

You may ask the question, What will happen, if such a thing could occur, as all the carbide in the hopper, which would be perhaps two weeks supply, fall into the water at once, and a great amount of gas be made, which would cause intense pressure, and, you might think, a break in the tank? If this were to happen and the pressure in the tank become greater than that which is normally intended to be, which I think does not exceed from three to five pounds pressure, for the reason that about that many ounces is all the pressure the gas has in the pipes, nothing would happen, except that the excess gas made would pass out as soon as the pressure exceeded the normal into a pipe, which goes out into the open air above your house or barn, according to where the generator is located, and absolutely no harm could be done.

To fill the generator one has to place in it according to its size, pure water at a place provided on its side, after running out from the bottom the residue, which is a form of lime and water and one of the finest fertilizers known. Next put in the carbide, turn the gas on in the main by a lever, which is turned off while refilling, and serves to keep air out of the pipes and allowing no gas that would be in the residue (which is little, if any), to pass out of the safety pipe up over the barn or house.

My generator is in my barn, but in many places is put, in a corner in a cellar of the house, but as I had no room in the house for it I put it in the barn, and built up an old coal bin, siding it up to the flooring above, and making it frost proof by lining it with pulp board, at a very small cost.

From the generator a main is taken off; this is inch pipe and carried at a depth of about filteen inches underground to my house and there the different rooms are piped from it. In the barn I have four lights, although one is about all that is ever used at one time, and the main outside supplies my house and my father's house about twenty lights in each house, making in all about forty-four lights.

The cost can be figured out as follows: A twenty-four candle power light, which is equal to three good kerosene lamps, will cost one-half cent The average house would burn three per hour. lights from four to five hours during the winter months and two to three hours during the summer, and taking as an average four hours the year ground, it would cost six cents per night, or twenty-one dollars and twelve cents per year, which is much cheaper than kerosene, and no lamps to clean, with three times as much light ty-four candle pawer in each room, from a twenty-four cannue pixet light of acetylene. The carbide is bought in tins containing one hundred pounds at a cost of three dollars and a half per tin. The carbide is made by fusing lime and coke under intense heat in an electric furnace, and of late, I believe, coal is used rather than coke. The carbide, if thrown into a fire, will not burn, but if thrown into water will produce the gas known as acetylene. In conclusion, I would like to say that I have used acetylene for over a year, and have found it absolutely satisfactory, and would not discard it for any other kind of light. A. R. RUTLEDGE.

dead, and that automobiles are the curse of the deed would not hold it; the sweet clover held it nation. It will be generally understood that the municipal roads system is a farce, and that the farmers take a good holiday every year when do-ing their road work. We will also learn that automobile owners are willing to give something toward road maintenance, and that in certain sections the county has gone so far as to improve a couple of miles of the King's highway. In addition to all this we will be somewhat surprised and discouraged to learn that the United States is improving miles and miles of country roads each year, and that the whole of Europe is laid out in one great system of finest macadam.

Various schemes from a big national highway coast to coast, to the simple neighborhood plan of applying shingle shavings to relieve the situa-tion, will be fostered and offered to the public as absolutely new and original. During the spring months when the roads are at their worst. many schemes will be seriously considered and carefully put aside until "something can be done," and as spring goes on and summer comes again the schemes will be, one and all, forgotten and laid away "till next spring."

The writer does not wish to pose as a cure-all or anything of the kind, but it certainly does make me sore to have it said that the farmer does not try to fix up the roads, and that he has a good holiday while he is supposed to be doing his yearly road work. As a matter of fact, nearly every farmer in the country is at a loss to know just what to do to the roads in that they will stand modern traffic. method which gave very satisfactory results a few years ago is now of practically no value, and as stoning, etc., are too expensive to be considered, farmers have been forced to adopt make shift methods to tide over a difficulty.

The only way out is for the government to step in and help. This could be done quite easily if people would only get together and work out some plan to finance the proposition. As an instance we will suppose that the government borrowed \$100,000,000 at 5 per cent. interest, and loaned it out in small sums to the different counties at seven per cent. to be used exclusively in road building, the roads would be built and in fifty years the two per cent. overhead charge would wipe out the debt, and the interest on the two per cent. as it gradually grew would pay all office work, etc., and leave a good margin. This scheme may not be workable but it looks good on paper, and there seems no reason why it should not work. It will be admitted at least that something must be done in the near future. J. C. INMAN.

Elgin Co., Ont.

## Another Year with Sweet Clover.

Editor "The Farmer's Advocate"

It has occurred to me that the readers of "The Farmer's Advocate" would like to know some-thing further about my work with sweet clover in general, and what we have learned during the year of its good and bad properties.

We have not discovered any bad qualities. In the first place, we have learned that all domestic animals become very fond of it as a pasture grass, although at first they do not appear to relish it, but readily acquire an appetite for it and in a short time become very fond of it and do not require anything else. Animals that have once acquired the appetite for it always take it the next year with great avidity. All

will then know for a fact that the roads are 1st last year eighteen inches high on a sand bank bad, the country is dead, the government is that used to move from one farm to another, a and now the one man thinks he owns it permanently

The prejudice of the people against sweet clover is remarkable, and perhaps our egri-cultural colleges have had something to do with it, as I am told they class it as a weed, and such it is, as everything else is, when growing in any crop where it is not wanted. To the contrary, no other weed can live amongst a good crop of sweet clover, such as Canada thistle, sow thistle, mustard, rag weed, etc. It completely smothers them. The time is not far distant when agricultural colleges will be telling a different story or the farmers will be laughing at them. The colleges across the border have been investigating it and are loud in its praise. In my neighborhood during the past autumn you could not meet half a dozen farmers together that were not discussing the clover question; you would hear one man say, "Well, I have spint hundreds of dollars trying to get a crop of clover and alfalfa and it is all waste money, or nearly so," and such is the verdict amongst thousands of farmers all over the country.

I have before me the testimonials of one hundred farmers who can tell as much or more at out WM. LINTON. sweet clover than I can.

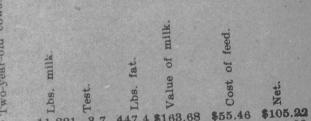
York Co., Ont.

## What is Your Herd Doing?

THE DAIRY.

From 1900 to 1910 the average milk production per cow in Canada increased approximately 1,000 lbs. Even then it did not surpass 4,000 Ibs. per year, which, to an up-to-date dairyman, is below the margin where profit begins. Included in these numbers, which make up the average, are cows producing seven, ten, fifteen and twenty thousand pounds of milk per year, This signifies that a host of mean, non-producers are in existence which bring the average down. This is not a lamentable condition if their owner be a wealthy man who has acquired an attachment for them, and the family would dislike to see them go. If they belong to a man who is struggling along, paying interest, high taxes, educating the children and trying to farm, then the conditions about his place warrant some transformation.

At the Dairymen's convention, at Cornwall, in January, a discussion arose about the net profit from cows. D. A. Grant of that community took from his pocket a table which he had been one year preparing. It was a record of what his nine cows had been doing. In order to obtain this information he had resorted to the It was a record of what scales and Babcock test, and that is the modern way of keeping accounts in the dairy barn. In the accompanying table is conveyed the doings of the herd.



Middlesex Co., Ont.

## The Road and the Farmer.

Editor "The Farmer's Advocate" :

In the course of the next few weeks we will again be associated with the good-roads problem. It is a knotty problem, and nearly as popular as the high cost of living question, which, perhaps, has monopolized more space in our papers and magazines than any other subject.

In point of popularity good roads is a pretty strong runner, and this year it tends to be very much in the foreground among national subjects. Following the general rule, the magazines and newspapers will one and all enter upon a big discussion and debate regarding waste in general and the disgraceful condition of Canadian roads in particular. The result of these disclosures will greatly enlighten the public at large.

animals take to the hay made from it at once. It does not bloat cattle like alfalfa. It does not winter-kill in this latitude, or die from drouth in summer. ...Its analysis is higher both in total and digestible protein than alfalfa. It We sow 12 is no harder to cure than alfalfa. pounds of seed aer acre, preferably in spring, on Mature fall-plowed land; it should not be covered deep. It will yield from 12 to 15 bushels of good seed per acre; we thresh with an ordinary grain threshing machine and then run it through the clover huller. If sown for the purpose of making hay, it should be sown a little thicker, say sixteen pounds to the acre. In cutting it for hay, it should be cut higher than alfalfa, as it does not sprout from the root like alfalfa, tut from the stem or small branches. It will grow on wetter land or drier land than alfalfa or red clover. There is no doubt in my mind but sweet clover will, in a short time, be the means of all those abandoned farms we have read so much about lately becoming reoccupied and becoming sources of great wealth to this country. It is the greatest green manure known. It does not bloom the first year, but it does the second and then dies after producing a crop of seed. It will grow on the hardest or poorest clay, or the poorest sand; and by continuing to grow it on poor lands it will bring them into such a state of fertility that they will produce in abundance any of the crops usually grown on farms in On-tario. We saw sweet clover growing September

11,821 8.7 447.4 \$168. 81.28 57.18 10,435 8.6 874.1 188.41 52.67 2 81.89 5,826 8.9 227.2 84.06 6,902 3.5 241.5 99.85 5,070 3.6 182.5 67.52 3. 99.85 68.85 36.00 84.52 4. 88.00 48.46 84.50 5,406 3.9 210.8 77.96 6.

11,248 3.5 387.0 143.19 61.78 81.46 9.852 4.6 458.8 169.75 116.65 53.10 8 9,653 4.1 396.0 146.52 47.47 99.05 9

In order to arrive at the cost of feed Mr. Grant estimated silage at \$3.00 per ton in the silo; hay, \$10.00 per ton in the barn; pasture, \$2.00 per month, and the grain was worth \$1.25 per hundred during the winter of 1912, and \$1.47 in 1913. It is also necessary to state that the butter-fat sold at 37 cents per pound to a special trade, which is much higher than the ordinary price. Mr. Grant valued his skim milk at 20 cents per cwt., and set it against his labor. It amounted to \$99.45.

It will be seen, by the table that no cow is giving less than 5.070 lbs. of milk, and that in-dividual only a two-year-old. The mature cows are high producers, and their owner said. will keep no mature cow that will not give 7,000 pounds of milk in one year." This herd has been built up by testing and weeding out the poor individuals. When a cow cannot look at her record without shame in her face, she and her owner part company.

#### Keeping Cows Clean.

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It is sometimes said that cows stabled during winter and fastened with the ordinary tie chain cannot be kept clean about the flanks and sides. but this is not the case, though more constant care will be necessary than with rigid or swinging stanchions, which prevent the animals from moving forward on the stall floors and subsequently lying in the droppings. Looking through the dairy stable of John Griffith, Westminster Township, Middlesex Co., Ont., lately, the cows, tied with the old-fashioned chains, were observed, without exception, to be as clean as the proverbial new pin and, by the way, giving a good account of themselves at the milk pail, being home-bred and well fed. Straw litter is freely used and the herd, which is not large, receives close personal attention, so that manure does not accumulate where the cows or heifers can lie in The cows drink from a "V"-shaped trough before them and are not turned out for exercise. From the bottom of the trough to the feed-alley floor is open space through which silage, fodder or grain is put into the mangers. To counteract habit of the cows crowding forward and reaching after fodder on the alley foor, Mr. Griffith has a board front a couple of feet high the width of the double stalls, and which moves freely up and down, the ends being held in place in grooves formed with strips fastened on the stall head-posts. Directly overhead and midway at the front of each stall is a small iron pulley through which a strong cord lifts the front up or lets it down. When the feed is to be put in, the movable front is raised, and when the cattle begin feeding, it is lowered so they cannot get forward and the food is kept in the manger. This contrivance is simple and useful. In two stalls, where the cattle had a very persistent habit of still crowding forward, the device of having a wooden strip across, a few inches above them, attached to the back stall posts, is used. When they step forward and hump up the strip catches their spinal ridge and forces their backs so that their hind feet stand about at the edge of the gutter drop. The result of these procautions is perfectly clean hind quarters. The cows are also thoroughly groomed every day and their sleek, show-ring coats tell the story of cleanliness and good health. In what condition would a man be, tied up continuously in a stall three or four months without a wash, comb or brush? Mr. Griffith sends his milk to the powder factory and is well pleased with the returns.

## POULTRY.

## Feather Picking.

Many poultrymen have trouble from time to time with hens pulling or picking each other's This is particularly true of fattening feathers. fowls during the winter months. At certain stations in the United States, experiments have been conducted to overcome this vice in fattening birds. At one place two per cent, of linseed meal was fed with the ration from September 1 to November 5. The linseed meal did not appear to affect the results of fattening in any way. The chickens during this period dressed particularly well, and it is possible that this linseed meal made picking easier, but its use would not be profitable for this purpose. The object of feeding linseed meal was to see if it had any effect on the habit of chickens picking naa any at each other. This vice caused considerable loss in fattening at times, but appeared to depend greatly on the condition of the chickens before they reached the packing house. Chickens which have not been fed well, or have been held for some time by the country merchant under poor conditions, are particularly subject to this vice, while in sections where the birds receive better care and are moved more quickly from the furm. to the packing house, this habit does not cause any particular loss. Linseed meal added to the ration seemed to stop this vice, but the habit was not so widespread that a good test could be made. Either fresh meat or good beef scrap might prove of value where there was much loss due to this habit, but the remedy appears to lie largely in the use of better methods of handling the chickens before they reach the fattening slations. Feather picking was more prevalent at all of the feeding stations in 1912 than it has ever been before. From two to three per cent. of waste meat and bones from local butcher shops was fed at irregular intervals during the spason, but no consistent effect was noticed from this Several lots were fed specially special feeding. prepared mixed feeds which were claimed to prevent feather picking, but the results were inconsistent. The feather picking broke out during a period of cool weather, while the birds were cating ravenously, but stopped quite suddenly when the weather became warm and the birds were not so eager for their food. There appeared to be less loss due to this trouble where the largest

per cent, of buttermilk was fed in the ration, but feather picking cannot be entirely controlled by regulating the proportion of buttermilk in the Less heating rations, or those containing feed. a large per cent. of shorts and mixed feed and a small per cent. of cornmeal, make the best feeds for use in hot weather where feather picking is prevalent. The mixed feeds, however, produced chickens covered with small pin feathers, which resulted in a poorer grade of dressed product; and therefore made the feeding of the mixed feeds unprofitable as well as undesirable.

#### Profit from Turkeys.

## Editor "The Farmer's Advocate"

One hundred and fifty dollars should not be a startling amount, even to a woman on a farm, but when she can produce it while she is doing all her own work in a busy season, anyone living on a farm knows what that means. My turkeys brought me one hundred and fifty dollars in cash last season at sixteen cents a pound live weight ... Had I taken trade I would have received one cent more a pound, and had I bled and picked them the price was three cents more per pound, with feathers from three to five cents per pound. Besides that we had turkey for Thanksgiving, kept two for Christmas season and have two to kill yet. Shall keep eight turkey hens and one male bird over for this year, the same as I did last year.

Except for having some tramped in the nests before they were out of the shell, I lost very few. I believe the reason for so little loss was that they were allowed to roam after the young birds were a few days old. Young turkeys are not content if shut in a pen and are almost sure



#### Jersey Character.

to wear themselves out for liberty-it is like jail cided on a "complete rest" to them. If raised in the yard they make a general nuisance of themselves by getting under

feathers and dein the corner of a shed for three weeks. Of this idea she was at once relieved and after a few more weeks she foot, for they will follow one everywhere possi- made her final effort and laid a few more eggs. ble. If allowed to roam, they are not likely to I feel quite safe in saying she did not lay in the go too far away, if fed regularly every day. They year more than four dozen, if she did that well.

FOUNDED 1866

## The Little Gray Hen.

Editor "The Farmer's Advocate":

Let me introduce to the readers of these pages a mysterious little gray hen. I say mysterious because nothing is known positively of her origin. She was hatched in an incubator set with Parred Plymouth Rock and Single-comb White Leghorn eggs. As well as I could count the number of chicks hatched and the eggs remaining in the machine, she must have come from a Leg-She had the shape and comb of a horn egg. Leghorn, but her color was unlike that of any other hen I have ever seen. The only possible clue I had was that I had heard a man who sold us the Leghorn eggs say that he feared a hird which had been brought into his flock had a touch of Rock in his blood. Possibly this might explain the peculiar shade. She was reared with a flock of seventy-two pullets, and, needless to say, attracted the attention of all who saw them, Great prophecies were made concerning her. So active was she, that one man said. "She looks as if she would not spend much time on the nest, as if she would hop right on, lay, and hop right off again." Part of this prophecy came true and when you have finished her story you will know which part. Another man (and an experienced poultryman) said, "She will be the first to lay in the flock." She was not. I am more convinced than ever that, while it is well to use what common sense we have and to profit by the experience of others who know more than we know ourselves, it is folly to prophesy concerning a hen.

I was always ashamed of that hen because she gave the flock a motley appearance and I felt that everybody was

looking at her.

There came a day

when I was particu-

larly ashamed . A

person came to see

some geese we had

for sale and unfor-

tunately noticed

this hen. "Why," she said, "you have all kinds." People

who take a pride in their flock do

not care to be told

they have "all kinds." Possibly

some readers may

be wondering if she ever laid. Yes, but very seldom. She

laid about three

eggs in the winter

and then, apparent-

ly thinking she had done her humble part, took a long

rest, not going back to work till

the long, sunny

spring days came,

when she laid a dozen or so more,

ruffled up her

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ing but ple say, they still they do when egg hens lay sentimen Oh! I ed chicke can pich make a ish sent ple who the best into litt ing tha not all still nev weeks d poultry ment al previou least t now th ing the for bre tunity bred-to these ( Do not dollars and De their good a of and must

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are a benefit to the farmer, by destroying so many injurious bugs and insects.

If you watch a flock on a fine morning you will see them as busy as can be in a pasture or hay field picking grasshuppers, crickets, etc. They will destroy thousands of them in a day, and while this food is plentiful they will require very little grain, besides keeping the potato tops clear of bugs. They also seem particularly fond of the despised rag weed.

In raising turkeys it is absolutely necessary that they be kept dry and warm. In wet weather they should be housed in large enough quarters to give them room for exercise, they cannot stand crowding. The food young turkeys seem to like and which agrees with them as well any other, is sour milk curds mixed with as rolled oatmeal. There is no waste of oatmeal if mixed with the almost dry curd. Green food and insects they must have at all times.

During October, November and December the amount of corn and wheat a flock of turkeys will consume is quite an item, for they are great I fed wheat and oats night and morneaters. ing, and through the day they went to the corn stooks and helped themselves. Although many farmers may think it pays to turn their birds off as soon as possible, I think it is profitable to keep them into December if the weather is fine, for they keep growing to the very last, and it is' more honorable to sell a fat turkey than a poor one. If it pays to fatten hogs, then why not, fatten our turkeys?

Lambton Co., Ont.

BROWN EYES.

and these were laid when eggs were cheapest, and I am very doubtful if she paid for her feed, for she had an extraordinary appetite. Where was the profit?

In July she set her heart on a new winter coat, the making of which required all the latter part of the summer and most of the fall, and I entertained a fond hope that she would redeem herself. The hope was blighted, for her work was evidently finished, and I decided to finish her days and make a splendid dinner. When she was dressed, however, I saw what had become of the feed she had consumed, as she was very fat.

Would that for the good of the poultry industry in Canada all other bred-to-no-special-purpose hens were boiling with her in one great caldron. It is not my purpose to draw attention to the individual hen so much as to the class of hun-dreds and thousands the "little gray hen" represents. During the year just passed the writer has had occasion to drive many miles in the county in which she lives and also in the one adjoining, very naturally noticing the flocks in farmyards along the way, but only about three can be recalled which showed any definite signs of having been bred with any special purpose in view. Many times have I wondered as I looked at farm flocks how many different colors might be counted there. Many have such peculiar shading that it is impossible to tell to what breed they have originally belonged. How old some hens look too! And have we not been told repeatedly by those who know that there is nothFEBRUARY 5, 1914

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ing but loss in keeping old hens? "Why." people say, "I have hens four or five years old and they still lay." How many eggs? Supposing they do lay three or four dozen eggs each year when eggs are most plentiful (that is when old hens lay) there is no gain. Strange, too, how sentimental some people are about their poultry. "Oh! I hate to kill the old hens that have raised chickens around the door; they are old pets; I can pick them up anywhere." If we wish to make a success of poultry raising we must abolish sentiment. Have you ever noticed that people who bring forward such arguments ire not the best poultry raisers? They often crowd them into little, dark, damp, ill-smelling places, knowing that they are suffering with vermin. Why not all make up our minds now, while the year is still new, and the breeding season only a few weeks distant, to turn over a new leaf in our poultry business? As we look with disappointment and sometimes shame on the ugly blots on previous pages, may we not profit by them, at least to some extent? Why not note the hens now that lay earliest and look the brightest during the next six weeks? Take only these best for breeders. Possibly you may have an oppor-tunity to buy a few settings from some reliable Then use your pullets from bred-to-lay flock. these on which to build a flock for coming years. Do not be afraid to invest two, three or even five dollars. You will not regret it next November and December when eggs are scarce and prices at their highest. While we may be listening to good advice of one who tells us to feed well and of another who may advise us to breed well, we M. H. must every year weed well.

Northumberland Co., Ont.

## Lessons Learned by Experience

The following conclusions were arrived at after a careful consideration of the outcome of the National Egg-Laying Contest, recently concluded at the Missouri College of Agriculture:

1. That there is no breed or variety amongst those in general use that far excels other breeds or varieties, so far as egg production is concern-

ed. 2. That more depends upon the strain or the breeding of a variety than upon the variety it-

3. That some hens have a born tendency to lay, while others have a born tendency to put on fat. It is, therefore, essential to cull intellicently

gently. 4. That it will pay the average poultryman to trap nest his flock in the fall and winter months, and to breed from the pullets that lay earliest in life. and from the hens and pullets that lay most in the winter.

5. That hens like sprouted oats as well or better than any other kind of green food, and that they do well on it. It increases egg production and makes a cheap food.

6. That the Mediterranean class can stand more protein and fattening foods than the larger breeds. There is not so much danger of them becoming too fat.

7. That the Mediterraneans are affected more than the other classes of fowls, by extreme cold, on account of their larger combs, their smaller bodies and closer feathering, affecting their egg yield accordingly.

8. That hens must be fed liberally if you expect eggs in large numbers, especially in winter. 9. That hens lay a few more when males are

not used in the pens with them, and that the eggs will keep better. 10. That regularity in feeding is very essential for the best results. These are only a few of the most important lessons enumerated, and are well worth remembering.

## THE FARMER'S ADVOCATE.

## HORTICULTURE.

## Lawn Making and Hedge Planting. Editor "The Farmer's Advocate":

If you are going to make a lawn next summer, this is the time of year to start. Draw a plan of your ideal lawn, on a large piece of paper, and where you intend to plant hedges and trees. If a tennis court is desired, you must have your lawn at least one hundred feet by fifty feet. Start in the spring of the year to cultivate and manure the land. It would be better to summer fallow for one year to kill the weeds, especially grass. Put in under-drains every thirty feet at least, so that no water will lie on the grass. Before sowing the seed be sure that the ground is perfectly level. Get a steel rail or a stick of timber and put a horse on each end, draw it in all directions to make sure that every little hollow is filled. By the time the ground is level, the horses will have it tramped solid with only a little dust on top. Then, when the weather is very calm, sow the lawn grass seed and rake it in with a fine steal rake, care being taken not to pull the seed into rows. If you wish to have a No. 1 lawn, do not use the ordinary package lawn grass seed, but send to some reliable seed merchant and get it mixed. My objections to the package seed are: You are liable to get some kinds of grass seed that do not make a very nice, soft lawn, such as orchard grass or timothy, and package seed is sometimes very old. After the young grass has started to grow, it must be watered if the weather becomes dry, during the first summer.

The next autumn a very light top dressing should be applied, but this must be raked off the next spring or it will smother the young grass. The first two years do not cut the grass short or the sun will take away the moisture, and allowing the grass to be tramped, especially after wet weather, is very harmful. I see many attempts to make lawns end in failure, some because the ground was not properly prepared and others because the grass seed was weak and the weeds got the first growth. Do not, be discouraged if a few spots get killed, but rake in some more grass seed, and if any weeds, such as burdock, come up, cut them out. In a few years a lawn will be secured and then it must not be neglected. Vihen the grass has become green in the spring of the year, after the frost goes out of the ground, take the lawn roller and roll the lawn three or four times in different directions; this will smooth the ground after the frost in winter. Keep the lawn clipped short, especially in June, for if lawn grass is allowed to go to seed the grass will become thin and yellow. Have a good fence around your lawn and hedges to keep animals away and poultry, if possible.

#### HEDGE PLANTING.

There are no trees in the world that make a more beautiful hedge than Canadian cedar. When removing the young cedars from the woods care must be taken not to destroy the main roots, hut it is easier to replant if most of the soil is removed. The best trees to get are those from two to four feet high and bushy. A cedar hedge must be planted in two rows. Plow cut your trench about three feet wide, and start planting the two rows together, zigzagging the rows and placing the trees as close together as possible without crowding the roots. Be very

careful to pack the soil closely amongst the roots. I always plant any tree about twice as deep as they grow in their wild state. When the hedge is planted give it a thorough soaking with water, but "not well water"; then mulch with sawdust from four to six inches deep underneath and for three feet on each side of the hedge. This sawdust is to hold the moisture; if sawdust cannot be obtained, leaves will do as well. The first summer the trees will be taking root, and if the weather is very dry, they must be watered. In three or four years, when the hedge has taken root and started to grow, there is no danger in using plenty of stable manure along each side. This will make the hedge a darker green and give it a more vigorous growth, but it should not be placed too close to the roots. I have planted hedges in both spring and autumn and have had

good success in both seasons. Evergreen trees must not be removed until after the sap has done running, usually after the middle of May.

A spruce hedge is much easier to plant than a cedar and not so much trouble to keep trimmed, although it does not look as nice as a cedar. Spruce hedges should be planted in a single row, trees about four or five feet apart. When selecting the trees get them from two to four feet high and bushy, for once the limbs are destroyed on the bottom of a spruce tree, they never grow again. When the hedge is planted, water and mulch with sawdust, the same as the cedar. When planting spruce for ornamental trees or sentinel trees along a driveway or walk, select the trees that are very bushy and you will gain years in getting them trimmed into shape. Spruce hedges make the best windbreak and can be let grow twenty or thirty feet high before cutting the tops. I have a spruce hedge nearly cutting the tops. I have a spruce hedge nearly two hundred yards long and about twenty-five feet high, trimmed to about ten feet wide. This hedge has grown so thick that no strong wind passes through it, and it is planted on the northwest side of the house, which makes a pleadid windbreak, especially in winter.

## TRIMMING HEDGES AND TREES.

After the first week in June evergreen trees and hedges may be trimmed. From June until October no harm can be done to either cedar or spruce by trimming, and if you wish to cut ten or fifteen feet off the top of spruce trees Septomber is the best and safest month. In trimming a cedar hedge, the easiest way is to stretch a piece of binder twine tightly along the top, having stakes the same length driven in the ground at each end; also another piece along the side for a guide. Hedges are liable to gain in height unless heavy trimming is performed on the top. A good way is to have a stake driven in the ground near each end and inside of the hedge and do not allow the hedge to grow above these stakes. you wish to have a spruce hedge four feet high, cut it three feet six inches high and let it grow again to four feet; it will be easier trimmed afterwards.

There are a great many different shapes to trim hedges, but I always trim mine with an oval top and vertical sides. This shape will not break down so easily with the snow in winter. I always rake the snow off the hedges after a storm unless the trees are frosty and then leave it on until a mild day comes. It is very important to clean the snow off cedar hedges, for if a hedge gets broken or pressed out of shape it will take all the next summer to grow it into right shape again. In trimming ornamental or sentinel

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## Fattening Rations.

The best results of fattening poultry, as reported in a recent United States bulletin, were secured with the following three rations: No. 1, three parts of commeal, two parts of low-grade wheat flour, and one part of shorts; No. 2, three parts of commeal and two parts of low-grade wheat flour, and No. 3, five parts of cornneal, three parts of low-grade wheat flour, one part of shorts, and five per cent. of tallow. feeding value is secured in a ration of three parts of commeal and two parts of oat flour, but at an increased cost of 37 cents per 100 pounds of gain. Four parts of cornmeal, two of low-grade wheat flour, and one of shorts gave very good results during the latter part of the feeding scason, or in cold weather; that is, the proportion of cornmeal and low-grade wheat flour may be increased in cold weather.

Prepare for spring while the cold nor'wester is still with us. and be on hand to welcome to advantage the balmy breezes which find their origin in the shining haze hanging over the southern horizon as the days of seeding time grow warmer.



Beautiful Surroundings. This is the manner in which Thos. Somerton, of Lanark Co., Ont., makes his farm home attractive.

pers are all that is necessary. Get the idea of the shape you wish these trees and go to work on them, starting at the top. THOMAS SOMERTON, JR.

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## Banner Convention of Nova Scotia Fruit Growers.

A more localized program, and a more general discussion of the problems confronting our Fruit Growers marked the fiftieth meeting of the above Association, held in Kentville in the heart of the apple producing area of the valley. The attendance was a record one, and was composed of men who were anxious to know more about their husiness. The opening meeting was held on Tuesday evening, Jan. 20th, and was ad-dressed by Hon. G. H. Murray, Premier of Nova Scotia, who spoke of the great necessity of money in developing the resources of the province, and the need of co-operation among farmers and fruit growers.

Wednesday morning's session led off with reports, election of officers, and discussions. Some expressed the opinion that No. 3's should never be put on the market, on the assumption that such a prohibition would lead to more thorough spraying and thinning and the raising of better apples, and while it might for a few years mean perhaps a loss to the fruit growers, it would by improved quality more than compensate for the loss that would occur until better methods were in force. Others felt that No. 3 would always be purchased by people who would not buy No. 1 or 2, and that for this reason they would always find a market and be generally a source of revenue for the grower, but the general opinion was that something should be done to raise the standard of the No. 3 so that the buyer would know that he was getting a desirable The ground was well taken, that if a apple. smaller number of barrels of better quality No. 8 were put up, the net returns to the grower would be greater.

Prof. L. Caesar, of Guelph, gave an excellent address on the Apple Scab, and illustrated his remarks with charts or cards. He said in effect the season in Nova Scotia this year produced weather that was very favorable to the early development of scab or black spot, and while it would seem that the disease was on the increase we must not be discouraged, since we may not get as bad a set of conditions for years again. This year's experience might be a blessing since it would be the means of waking us up to greater endeavors, and experience had proven that thorough spraving would control scab. The factors determining the increase of scab were first wet and cold weather. The cold weather of early spring did not seem to check its development if the conditions of moisture were right. Second, the danger period of spot development was generally from the time leaf huds swell until fruit is three-quarter inches in diameter. Third, if the disease was very prevalent the previous year, of course, it will be carried on the leaves over winter, and if conditions are favorable will tend to increase the following year. Sometimes during a wet fall the disease will develop to a certain extent.

Results of Disease .- Injury to the fruit causing deformity and early decay, since rot will set in around the spot before it will on other parts the fungus develops on the stem of the newly-formed apple, it will cause it to de-cay and seriously affect the quantity on the tree. The development of the spot on the leaves interferes with the proper performance of their functions, thereby lessening the vitality of the tree, and quantity of well-grown fruit it will be able to mature. Character of Growth and Development .-- The spore cases that have wintered on the ground leaves and back of the trees eject with some force the spores which lodge on the buds and small leaves as they are opening, for this reason the early spot is found on the under side of the leaf. This spore throws out roots which feed on the tissue of the leaf or fruit, and under favorable conditions spreads. Control .-- Since moisture is favorable to its growth and development, anything that will increase conditions, that will allow of more light and air among the foliage, planting fewer trees per acre, and on lands where free currents of air are possible, will aid in the control of the Thorough spraying with a good fungidisease. cide is of course the most important direct means of control. As fungicides, lime sulphur and Bordeaux are equally good, though lime sulphur is rather the favorite, because of the greater tendency to "russet injury" from the use of Bor-Prof. Caesar recommended the boiling at deaux. home of the lime sulphur on the score of cheapness, and gave very detailed directions as to its preparation. Following this some of the most successful orchardists gave their experience in spraving and its results during the past year. These men had carefully compiled reports showing how, when and how many times they had sprayed, and

trees, a true eye and a sharp pair of hedge clip- the percentage of No. 1's, No. 2's, and No. 3's, as they were packed out in the warehouses. These reports following the excellent address of Prof. Caesar gave renewed courage to those who had not sprayed thoroughly, and who, with the experience of the past two years, had begun to feel that black spot was increasing in spite of all effort, and that it could not be controlled. Our growers left this convention with the firm conviction that it can be controlled, and they are going after it next spring with renewed energy. On Thursday J. M. Robinson, of the N. S Experiment Station gave in tabulated form the results of spraying tests during the past year in Here the results three orchards in the valley. showed largely in favor of lime sulphur as against Bordeaux, and in favor of commercial lime sulphur as against the home-boiled article. Making the comparison between sprayed and unsprayed fruit a matter of dollars, it was found that while the cost of spraying was \$25.00 per acre, the gain from sprayed over unsprayed areas was as high as \$100.00 per acre.

Prof. Brittain, the newly-appointed Entomologist at the Nova Scotia Agricultural College, spoke on the control of apple aphids, giving their life history and recommending the preparation known as Black Leaf 40 as a spray for their control as being cheaper, and at least as effective as the emulsions, and also that while the emulsions had to be applied by themselves Black Leaf 40 could be applied with the ordinary sprays, and retain the efficiency and applicability of both.

The Maritime representative of the Entomological Department, Ottawa, P. E. Saunders, gave an excellent and encouraging report of the work done in fighting the brown-tail moth and San Jose scale for the past year, but by far the most vital and interesting address of the convention from a standpoint of benefit to the farmers in dollars was that of A. E. Adams, of the United Fruit Companies, of N. S. Mr. Adams outlined briefly the history of co-operation in the other countries, making special mention of wonderful strides Denmark had made agriculturally and industrially. He then gave the history of the co-operative movement in Nova Scotia, and the organization of these companies into a central organization which had already saved so many dollars for the pockets of the farmers, and promised more benefits in the future. The United Fruit Companies have not only saved for their members some twenty cents per barrel in expenses but by keeping in daily touch with the markets of the world have been able to sell or ship when the markets have been good, and hold when the markets are bad. A list of shipments to England showed that those boats which struck bad markets this year carried a comparatively small number of barrels for the United Fruit Companies, while they had a large proportion on the boats that struck good markets. The buying end of this organization is also saving the members' money in lower prices for fertilizer. feed, etc. The following resolutions were passed:

That we place on record our deep sense of the loss sustained by the fruit growers in the death of Alex. McNeil.

That because of the early date of holding the Provincial Exhibition, at Halifax, it is impossible to hold a creditable show of winter fruit. we recommend a revision of the prize list, cutting out winter fruit and offering larger prizes for early fruit.

That we recommend the appointment of a incial plant nethologis

to the farmers and they promptly voted that from that time the foxes should be privileged characters, entitled to help themselves from the too plentiful flocks of geese. When the time for marketing came it was found that the forecast of the foxes proved correct and these cunning animals went about pointing with pride to the fact. that never before had pate-de-foi-gras and goose feathers brought such high prices.

FOUNDED 1866

But before many years had passed it was found that the privileged foxes had multiplied so rapidly that they were eating all the geese and in spite of the fabulous prices that prevailed the farmers were worse off than ever.

When matters were at their worst a wise old owl called the attention of the farmers to the fact that among the pampered and luxurious foxes there were many with black and silver skins, which would bring even better prices than geese in the markets of the world. Then the farmers saw a great light and they promptly turned all their goose pastures into fox farms and began supplying the world with black and silver fox skins. And they prospered as never before.

Moral: Now that Canadian farmers have taken to fox farming there is hope that they will soon turn their attention to the privileged manufacturers, bankers and others who are at present fattening on the country.

## Education Rather than Cooperation.

Editor "The Farmer's Advocate"

An article in a recent issue of your journal entitled "Get Together," by Constant Reader, calls for some comment. He is evidently a well wisher of the farmer, but, as he himself suggests is possible, his arguments are not altogether logical. His plea is for co-operation among farmers, who, he says, are competing with one another, keeping prices down, and so robbing themselves and their neighbors of their just dues. Then further on he says the co-operative society may be used as a means to reduce the cost of There is only one way of reducing the living. cost of living, and that is by bringing down prices all round, and I don't think any combination of farmers are going to fight very hard to accomplish this. It is upon the price that the ultimate consumer pays that the producer must depend, in the long run, middleman or no middle-Witness the fancy prices paid to the ownman. ers of beef cattle at the present time, simply because the consumer is willing to put up the money to get what he wants. G.No amount of cooperation will establish a permanent market. It must come through a natural demand on the part of the public. This explains the comparative failure of these organizations among farmers in the past. They failed to control the market and the expectations aroused were not realized, simply because they had not taken into account the law of supply and demand. You cannot make a man buy more than he wants of an article by raising the price of it, or even by holding it at the former level. The only way to increase the consumption of an article is to better its quality or reduce its price. That is working up for permanent results.

Take the Canadian cheese business, which your correspondent mentions, as an example. Why idah has it found New Zealand such a form

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That we ask the authorities to define a No. 8 grade of apples with a view of raising the standard of the present pack.

The officers for ensuing year are as follows: President, F. W. Bishop. Paradise; Vice-Presi-dent, A. E. McMahon, Aylesford; Sec.-Treas., M. K. Ells, Pt. Williams. Executive, F. A. Browne; B. Chute; E. H. Johnson; L. D. Robinson. T. Delegates to the fruit conference of the Dominion in August, 1914 : S. B. Chute ; M. K. Ells ; A E. McMahon ; W. W. Pineo, and S. C. Parker.

#### FARM BUL LETIN.

#### A Foolish Fable. By Peter McArthur.

Once upon a time there was a far country in which the farmers made their livings by raising eese and selling pate-de-foi-gras, feather beds and Thanksgiving dinners to all the world. Presently there came among them a number of wise foxes who reasoned with them in this fashion:

"You have altogether too many geese. By over-supplying the market you' keep down the prices of geese and their products so that you do not get a proper return for your labor. Now we are prepared to eat enough of your geese to reduce the supply. Then, because geese and their products will be scarce prices will go up and you will prosper as never before. It is true that we shall benefit directly, but your indirect berefit will be greater than ours."

This new economic doctrine appealed strongly

rival in the effort to hold the English market ? Simply because New Zealand sends in a wellcured cheese, of good quality, at a price regulated by that quality. I am not trying to work up a case for the middleman, who, I have no doubt, tries, as a rule, to make all the profit he can legitimately out of every transaction he is engaged in. But what I say is, that the middleman cannot, for any length of time, control the producer's market. And the cheese business, just mentioned is proof of that fact. Contrary just mentioned, is proof of that fact. to the general opinion, the price of cheese is not fixed by the buyers at the leading cheese boards of the country. For instance, a Montreal commission house gets an order from a firm on the other side for a certain amount of cheese to be shipped at once. To get this cheese they instruct their buyer to pay a shade over the market price, if compelled to do so by the salesmen. As a consequence the level of prices is raised for other buyers must come up to the advance or do without cheese. In this way a strengthening of the English market is at once reflected on our own, and the producer gets the advantage, not in spite of the middleman, but because of him. As to the profits made out of the business at the present time, I have reason to believe that those engaged in it, apart from the producer, are not making more than a safe business system would warrant. The fact that Canadian cheese is retailing in our own cities at two cents a pound more than it is on the counters of the retail merchants in Liverpool and other towns of England would indicate this.

A curious statement is made by your corres-

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pondent when he says that Canadian cheese was being delivered in England unreasonably short in weight, for which he goes on to blame the mid-Now, anyone who knows anything about the business, knows that the weights of the cheese are stencilled on the boxes in the factory, and when the returns from the commission houses do not give full credit for these weights the farmer is the first one to complain. Should one of these houses persist in cutting on weights, so that they might ship full-weight cheese to the English wholesaler, they would inevitably lose the patronage of the farmer, and thus be forced out of business. Now, I am a practical farmer, not a middleman, but I want to see fair play. To my mind, some sort of a go-between is necessary in the transfer of produce in which this country is so largely engaged. The present condition of commercial life demands it, and if the middleman is a necessity, why should we object to his making a reasonable profit out of his business? Some men of this class who do an exceptionally large trade are wealthy. We must admit it. But would all the producers with whom mit it. But would an one per ached the market they did they have dealt have reached the market they did if it had not been for said middleman? questionably they would not, so there the matter stands.

Another word re co-operative societies. The discouraging failures that have attended efforts along this line in the past would indicate that possibly practical and permanent results cannot be had by organizing farmers in a scattered community into social clubs or secret political so-Enthusiasm gradually dies down, and cieties. the last state of the place is worse than the first. The fact that farmers do live in this scattered condition probably accounts, in part at least, for the statement that they can never hang together and will never organize with success. The labor union of the city has an advantage in this respect. The leaders and members are in continuous contact with one another and interest is sustained. They have, further, but one thing to sell, which is their labor, so harmony of ideas and unity of action are more easily secured than among a class whose interests are so varied as is the case with farmers.

It would seem then that the farmer's success must be an individual one, to a large extent at least, and if this is so, the one thing that will help him to accomplish it is, that which will make him appreciate more fully his chosen profession in life, viz., a good general education This is not impracticable, even for the man of middle age, in this twentieth century, when all kinds of knowledge are almost forced on one through the medium of books, papers, agricultural reports, and so on. But it is even more possible for the young person of either sex, and a thorough school and college education should not be thought too good for any farmer's son or daughter, whether they are to stay on the farm or not, and especially so if the former is the For the man on the farm should know why he does a thing, as well as how to do it, and if education puts him in a position to accomplish this end, it does for him more than any cooperative society is likely to do, for it makes farm life of peculiar interest and a source of happiness as well as profit.

J. E. McINTOSH. Glengarry . Co., Ont.

## THE FARMER'S ADVOCATE.

This is our second annual engagement, we having hired by the month before, but I can safely say it will be the last unless we can find something like your cartoonist has set forth on page 49. That most certainly is a good idea, but how few farmers have adopted it !

I have read with much interest the articles by Mr. Klugh. Can he offer any explanation of a peculiarity I have noticed in the West? When the western sky is all over a light-golden color at sunset there will invariably be a strong, west erly wind the next day. This wind will in all probability not begin until about 9.00 or 10.00 a. m., and will go down with the sun.

SCOTTIE. Assiniboia, Sask.

#### Needs of a Telephone System.

Editor "The Farmer's Advocate"

The telephone is such a great convenience on the farm that we can hardly conceive how we would get along without it. If the doctor is required through the night, we can call him by phone, and he can be at our home in half the time it would take to hitch up and drive to his place and return. In many parts of the country farmers are, no doubt, getting good service from the telephone, but in a great many others the service is very poor indeed. In our town-ship we have no fewer than five different local telephone lines doing business, some of which do not interchange without a toll of five cents, and each line has a separate central. A farmer may have a brother only a short distance away on a different line, and he has great difficulty in getting him.

The telephone is a public utility like the post ice. Now, what kind of a postal service would office. we have if it were managed by five different companies in, say every county, not to speak of the small confines of a township? Why we would say it would fall very far behind our present government-managed postal service. In Great

to find out what it is worth to us. And to many the government-managed telephone system would be a good deal less expensive than the present complicated, cross-purpose local telephone systems. Why, in our village the doctors and businessmen have to pay for no less than three different telephone systems in order to keep in touch with their patients and customers, D. L. Oxford Co., Ont.

## A Comparison.

Editor "The Farmer's Advocate":

Ten million dollars given in one year by an automobile firm as bonus to its employees, ten million dollars given by the Canadian Government to promote agriculture for the next ten years-this illustrates the conditions as they exist to-day. On the one hand, a rich and protected manufacturer, catering to the ever-increasing demand for luxuries; on the other hand, a lawyer Government, controlled by the big interests, giving the farmers a consolation prize, so that they feel they are getting something. ' And they still keep on complaining about the high cost of liv-ing. Let us see whether there is such a thing as high cost of foodstuffs, according to the American standard of living. I cannot see it. The trouble is, the public, from the millionaire down to the workingman, want all their money for luxuries and amusements and begrudge the former a decent price for the necessities of life. Let us compare our scale of prices and wages with those of the Old Country. I cannot speak of England, but will take Germany, my native land. The ordinary workingmen get about 85c. per day, and foodstuffs are: Beef, 20c. to 25c.; pork, about the same; butter, 30c. to 36c. per pound; even margarine is 22c. per pound; potatoes, 90c. per 100 pounds. So, you see, food is as dear there as here and note the Uerman wages of 85c. and the American of \$2 and more for unskilled labor.



How Long Will It Take Him to Get There?

Britain the government have managed for a long tells us of the laborers getting bread, milk and porridge. Offer that to a workingman nowatime the telepgrah system in connection with the days and see what would happen. The workingpost office, and they have managed it well, and telegrams are much cheaper there than here. And latterly the British Government have taken over the telephone system and are operating that now. the telephone system and are operating that An act of parliament was passed to expropriate all the different telephone lines at a valuation, to be fixed by arbitration, and it has been successfully carried out. Now, I think that our government could manage our telephone system to much better advantage than the local or municipal telephone companies. The centrals could be placed where they would be most convenient, and where they would give the best service to the general public without considering the in-The 'phone terests of rival local companies. holder could have the privilege of talking to anyone within a radius of, say, twenty or twenty five miles of his central without any regard to township or county boundaries for a fixed yearly payment, and a small toll for distances beyond. And the government could run the system just as cheaply as would pay running and repair ex-penses, and enough to create a sinking fund to repay the amounts paid over for the local companies' lines. The present local companies cannot afford to pay an expert to keep their lines in proper repair, but the government having control of the whole system could afford to engage a man for every stated number of square miles, and the lines would be kept in proper working I think it would be well worth while to order. thoroughly discuss this project, as it is of vital imply tance to farmers, as many are at present Some may argue that getting very poor service. a government-managed telephone system would cost more, but if it did cost some farmers more it would be worth a great deal more, and the correct way to estimate the value of anything is

Of course, clothing and manufactured goods are cheaper there, as the industries have little protection and of course cheaper labor. I think the American town dweller has little right to grumble compared with his Euro-pean cousin. What is bringing over the im-migrants? More money and better prospects. I think the American farmer has the disadvantage compared with the European, as .the farmer has the higher

wages to pay. Dr. Rutherford, in his article on "Farming in the Lothians,' tells us of higher prices of food 40 years ago in Scotland than even now and probably the wages were still lower then. Ha

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## The Hired Man's Viewpoint. Editor "The Farmer's Advocate":

In your issue of January 8th, there is an ditorial in which you say that the farmer works longer hours than his hired help. This statement has been repeated so often that many of your readers will probably take it as the general rule, but, as a hired man. I can say from experience that such is not the case. Both as regards myself and every other hired man I have had the opportunity to notice, the positions have been reversed. I have almost always had have been reversed. I have almost always had to be up first, and finish work last at night. Many times I have been left to finish a field in spring work, which my employer knew would keep me late, while he went to town, returning about ten or eleven o'clock at night-that is after all chores were finished by me. In one instance I was stopped money for two half days, and one whole day which I had off between 25th March and 15th November, those being the only holidays I had.

The same state of things obtains with my No consideration seems to be shown. The wife. farmer's wife will, for instance, do some more or less fancy cooking and leave my wife to clean up after her, or slop water over the floor and just If it is not cleaned up at once the leave it. children will most certainly tramp it all over the house. And so on in an almost endless list of ways of causing trouble. All this is not written as a kick, but merely to show that the farmer does not get altogether the worst of the bargain with his hired help. There are doubt-less bad points on both sides.

folk either. They can play the ladies, while their sisters in the country plow through snowdrifts to milk the cows and feed the hens and gather two or three eggs, which, at 50c. per dozen, just about pays the feed, the labor and trouble thrown in.

I have five milk cows and have started a milk route to town, five miles away, keep two horses, and work 14 hours a day. And, the women have to help, and we earn about three dollars per day. I have to buy feed on that, keep things going and have a little over. Many a man in town earns that alone in a ten-hour day, with nothing invested. I am contented; my business is growing and things will be easier soon. My cows give about 6,000 pounds of milk per year, for which I get Sc. per quart. But if I had to make butter or sell the milk to the factory I would make about \$6.00 a week, and not even that, as I could not buy meal at \$28 per ton. Eut thousands of farmers have to do it. There is some money in it if you have good cows and the right equipment, but how many have it? They are striving for it, but it takes years of hardship and privation to get there, for there is no cheap money for the farmer to borrow. He has to wait and work for it. I am willing to do this for I like my work and a good many others do the same, but the majority go to town, where it is easier. I am aware that a Commission is at work investigating the high cost of living. That report will never be complete until one of the gentlemen goes, for one year at least, as a farm hand, on a farm that has been run out through the folly of past generations and helps

Sap Days in the Townships.

to do chores around an old barn and helps the farmer's wife to care for the sitting hens, chase the turkeys when a shower comes and lug water for her from the spring below the hill, in a snowstorm, then he would know why the young folks leave the farm. Only famine prices will drive the people back to the land. A pound of axle grease is worth 20c.; I think 50c. would be a fair price for a pound of butter. But things will rectify themselves and the farmer's day is coming. Rest easy. Give the calf plenty of rope and it will choke itself.

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FREDERICUS AGRARIUS. Northumberland Co., N. B.

Note .- The reference to the grant to agriculture does not take into consideration the regular grant but only the special \$10,000,000.-Editor.

## Parcels Post for Canada.

The parcels post system which has been under consideration for some time is likely to be inaugurated early this month. The Hon. L. P. Pelletier, Postmaster General, has announced that the preparatory work in connection with rates, zones, etc., has been completed. The system has been simplified in so far as it is possible for the beginning. For each province there will be a special rate printed on a card, and from which the postmaster can see at a glance the local rates for forwarding parcels.

Our readers will be interested to know that in the Province of Ontario to any post office within 20 miles parcels weighing one pound may be sent for 5c.; two pounds may be sent for 6c.; three pounds for 7c.; four pounds for 8c.; and 2c. for each additional pound up to the maximum, which is at present placed at 11 pounds. To any post office beyond the 20-mile limit, but still within the province, the rates will be in the beginning, 10c. for one pound ; 14c. for two pounds; 18c. for three pounds; 22c. for tour pounds; 26c. for five pounds, and 30c. for six pounds; seven pounds going for 34c.; eight pounds for 38c.; nine pounds for 42c.; ten pounds 46c., and eleven pounds for 50c. Parties in Ontario wishing to send parcels to Quebec may do so at the following rates : one pound, 10c.; two pounds, 16c.; three pounds, 22c.; four pounds, 28c.; five pounds, 34c.; six pounds, 40c.; seven pounds, 46c.; eight pounds, 52c.; nine pounds, 58c.; ten pounds, 64c.; eleven pounds, 70c. To any post office in Saskatchewan, one pound goes for 12c.; two pounds, 20c. ; three pounds, 28c., and eight cents extra is added per pound until the eleven-pound limit is reached. One pound may be sent to Alberta for 12c.; two pounds, 24c., and ten cents per pound for each extra pound up to the eleven-pound limit. To any post office in British Columbia one pound goes for 12c.; two, for 24c., and 12 cents per pound for each extra pound.

The first three months of the operation of the system will be an organization period, and during this time an additional fee of five cents is to be charged on parcels mailed for local delivery the carriers. The zone system adopted divides the Dominion into seven provincial zones, the Maritime Provinces being joined together to comprise one.

Editor "The Farmer's Advocate" : Driving over rolled village roads in midwinter one sees above the foothills snow-cowled peaks, the mistiness of whose blue-print shadings proclaim their remoteness. They are the finest sugar bushes in the maple sugar belts, which in America are confined to the south-eastern section of Quebec and to the States of Vermont and New Hampshire. When the hours of sunlight become perceptibly longer, and the ragged quilt of snow is slipping from foothill and peak, when crows come prospecting northward, and the air out of the south breathes the lifee of spring, sap days begin.

"I do not know what the philosophy of it is, weather, writes John Burroughs of 'sugaring' 'but it seems a kind of seasaw, as if the sun drew the sap up and the frost drew it down, and Before an excess of either stops the flow. sun has power to unlock the frost there is no sap, and after the frost has lost its power to lock up again the work of the sun there is no But when it freezes soundly at night with sap. bright, warm sun next day, wind in the west and no sign of a storm, the veins of the maples fairthrill." ly

In some progressive localities farmers take the initial step early in the winter, when they drive the big wooden roller through the woods, packing the light snow into a firm foundation against the soft "getting-in" roads of thawing spring days. This is repeated after each heavy snowfall, and when sugaring comes early or the snow in the woods is deep, more than repays the For, as Leonides Hubbard once said trouble. in describing the trapping of moose on spring crusts, there is nothing so like ball and chain punishment as travelling when you sink in at every step and feel your feet drawn down with the leaden weight of wet snow.

There are certain things about sugaring that one has never been told, but has come to know by a sort of intution. Such as that one always taps on the south side of a tree, making "bores from one and a half to three inches deep; and that the tall, long-limbed trees in the woods are productive of a larger yield of sap than the more bushy-topped ones in the open; and that the first or robin "run" possesses a delicacy of flavor not to be found in either the frog or the bud-runnamed respectively from following hard upon each of these spring harbingers. Sugar made from it is a light golden brown with sides that sparkle as if sprinkled with mica dust, contrasting in color, flavor and excellence with the dark confection covered from the bud-run into tub sugar.

When the sap runs well, which is at the rate of about seventy drops to a minute, it keeps one man busy emptying the wooden or tin buckets into the horse-drawn receptacle, which is in its turn poured into the storage tank, automaticalfeeding the evaporator within the sugar anty. Through the successive, corrugated divi-IV shanty. sions of this long shallow vat the sap passes till it is ready to be drawn out as syrup at the When it has been poured into the lower end. shiny, labeled tin cans it is ready for market, the price ranging from sixty cents to a dollar per can, according to the "make" that season.

One time-honored mode, now no longer in vogue, of testing the boiling sap to see if it was ready to be stirred for sugar, was to tie the supple twig of a birch into a loop, dip it into the evaporator until the psychological moment arrived when bubbles could be blown through the film which formed in the loop. Another test was pouring a ladleful of syrup into a mould contrived by thrusting your finger into a little heap of packed snow till it congealed in a finger sugar. Even in these days of thermometer testing accuracy every bush has its traditional customs, and, during the "runs," sweet-toothed visitants enough to drive a stingy man crazy. They come on foot, in sleighs, and in buckboards, and run the gamut from school children to desiccated old age. In a week or two it will be time to begin ploughing and getting in crops, but for the nonce it is enough to smell the spring in the sun-quickened grass, to hear the crows answering one another in antiphonal chorus, to follow the gray-liveried maples up to the little unpainted sugar shanty in a fold in the hills. Here, supplied with goodfellowship as well as pans of snow ribboned round with golden wax, replenished till even recourse to pickles and codfish fail of their mission to resuscitate waning appetites, one is inclined to sympathize with that native of the Emerald Isle, who asseverated that he found the sugar-making industry so much to his liking that he thought seriously of following it the year round. HELEN C. WILLIAMS. Brome Co., Que.

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## Believes the City a Moneymaker. Editor "The Farmer's Advocate":

The articles in your valuable paper about young people leaving the farms to try life in the cities are intensely interesting. Any matter that provides thought for the majority of the race is evidently associated with more than a usual amount of importance, thus it often occurs that this importance will more readily fasten one's attention upon things than anything else. After thinking over this matter, I have come to certain. conclusions which, while they may not be correct, will perhaps provide some amount of interest for other people.

Perhaps one reason why so many young men don't wish to farm is because the start is too expensive. This may suggest a satisfactory prospect for the person selling, but for the buyer it creates a difficulty not at all easy to overcome. There are, I believe, a large number of men who would willingly farm if they had more capital, Purchasing the farm is, of course, only one of the big items in the intending farmer's expensive pro-When the price of stock and machinery gram. are taken into consideration, I am not surprised that so many young men decide not to farm.

Again, it appears to me that the average farmer's son has no desire, let alone intention, to make what I would call a moderate or economical start in business. It is natural with all of us to "have the best," if possible, and I wouldn't blame any ambitious young person for leaving farming alone if he thought it necessary to drain his purse and impose upon his muscles to engage in it. Then, too, many young men can see that they must work hard for many years before it is at all possible for them to start for themselves, more especially if they are members of a large family.

Considering the cash returns for the farmers' products, after allowing for all expenses, rememing the long time he waits for such returns, I cannot see that his life would be so much happier than a man earning good wages in the city. Compare the working hours of and the amount of money earned in such time by the man on the farm and those working in the cities, then I think, it will be seen that the farm man need not laugh quite so loudly after all.

The chances for improving education are certainly greater for the man in the city; he sees more, hears more, and so becomes more than the man on the farm. Likewise, the chances for occupying important public positions are also more in favor of the city man, because if a man desires to fill a public office he must become acquainted and interested in public affairs and to do so he must get where the greater part of public affairs are attended to which is, undoubtedly, in the towns and cities. I think the majority of men who occupy i Gportant public positions have secured those positions through contact with or experience in the cities. Allow me to conclude my statements by asking two or three questions which I will leave for people to answer as they think best. I would like to know why so many men are leaving the cities and purchasing farms at a much higher price than the present majority of farmers are prepared to do? Could such men have made as much money in the same time if they had never gone to the city? If the open country life is so intensely interesting, how is it that the land nearest a town or city should e worth so very much more than land situated

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In sending a parcel across the continent there is an additional charge for each zone or province through which it passes. The 20-mile limit in the local division of the system is especially designed to protect the small merchant against competitors in the large cities.

This is a beginning. The eleven-pound limit will be great enough to help farmers to some extent in marketing small consignments of such products as butter and eggs, and as the system grows there is no doubt but that the limit will materially raised to the benefit of producer Our readers will watch with inand consumer. terest the working out of the new system.

### Sign Your Name.

Week after week we are obliged to cast to the waste-paper basket many letters of enquiry and several articles written for "The Farmer's Ad-vocate," owing to the fact that the writers neglect to sign their full names and addresses. Initials are of no use and the full name without the address meets the same fate as the letter with the initials and the address. We do not like to discard good material; but must do so. We would urge again that greater care be taken when writing to the paper to have the full name and address on every letter sent in. We have emphasized this before, but it seems necessary to repeat the warning. Your initials are not enough; we must know who you are and where you live.

Dr. F. Torrance, Veterinary Director General, informs "The Farmer's Advocate" that a Ministerial Order has been passed prohibiting, for a period of six months, from January 14th, 1914, the importation or introduction into Canada of any hay, straw, fodder, feedstuffs or litter accompanying horses from Continental Europe.

in any other part of the country, and be so eager-ly sought after by intending purchasers?

Which would really prove most advantageous for the average Ontario farmer, improved transportation facilities for the marketing of their products or for the Government to enact such laws as would improve by one hundred per cent. the condition of employees on Ontario farms? These are some of the thoughts passing through my mind on this somewhat perplexing subject.

J. H. ROBINSON.

Peel Co., Ont.

## **Cutting Down Expenditure at** Ottawa:

The estimates for the fiscal year 1914-15 have been laid on the table in the House of Commoas at Ottawa. The most conspicuous feature in these estimates is that a reduction has been made in several departments, which makes the total sum twelve million dollars lower than that for the previous year.

Last year the grand total was \$202,656. 166.59, while the total for the coming year is \$190,735,176.42. The largest decrease is under the head of public works, being over three million dollars. Naval service appropriations are decreased by \$150,000.00 and railways and canals by over \$138,000. There is a slight darrers; in militia and the miscellaneous expenditures are also cut down. One of the largest increases is that for 'agriculture, being \$1,266,500. The post office department also gets an increase of \$1,911,840.75. There is a slight increase in

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subsidies and immigration. It is also planned to keep the supplementary estimates down so that expenditure on the whole should be curtailed. Of the estimates for agriculture the detailed votes include \$775,000 for experimental farms, which is an increase of \$110,000. Fifty thousand dollars is set aside for the enforcement of the Destructive Insect Act; \$225,000 for the development of the dairy and fruit industry. To encourage cold storage \$200,-000 is to be expended. The health of animals branch gets \$500,000, and the administration of the Meat and Canned Food Act is to be effected at a cost of \$240,000. Four hundred thousand dollars is set apart for the development of the live-stock industry, this being an increase of \$200,000.

Under the Agricultural Instruction Act the Provincial votes total \$800,000, Ontario getting \$230,868.83; Quebec, \$187,409.16; Nova Scotia, \$61,144.45; New Brunswick, \$49,407.20; Prince periment was commenced and it is now 37 years Edward Island, \$27,832.81; British Columbia, old. The variety is Baldwin. The average yield \$52,799.38; Manitoba, \$58,075.45; Saskatchewan, \$61,152.31; Alberta, \$51,310.41; Veterinary Colleges, \$20,000.00.

## Meeting of the Western New York Horticultural Society.

Canadians may well afford to watch the ma-noeuvres of the Fruit Growers of New York Oregon and Washington are constantly. State. being brought to our attention through their or ganizations and excellent pack, but their product is only a drop in the bucket compared with the output of the Empire State, whose average annual production from 1899 to 1910 was 5,122,250 barrels.

The Western New York Horticultural Society held their 59th annual meeting in Rochester, New York, on Jan. 28th, 29th and 30th, 1914. This is the great annual "get-together" event of the season in Western New York, and this year it was a profitable one indeed. Conventions representing agricultural interests in Eastern North America are usually characterized by the enthusiasm with which the members adopt new ideas and persistently neglect to put them into execution on their own farms when they go home. But the plying 37.5, the number of barrels of culls per very condition that Western growers, by exploiting their plans, conceived by a body, to be executed by the individual, are able to find their market in the very center of the East after paying a transportation charge of 50 cents a box or \$1.50 per barrel is coercing the Eastern grower o remember a little, at least, of what he so thoroughly understood at the convention.

These changing conditions with our neighbors to the South, combined with their enormous annual yield, render them not only influential in Eastern North American markets, but number them as a strong competitor in the markets of the world. They, too, are seeking to make foreign countries a market for their ever-increasing production and there all shipments meet on common ground. The foreign consumer will not be biased or led by prejudice or national sentiment. The best pack and the best fruit will win out.

One feature of this Horticultural Society is the They permanency of the chief executive officers. have had three presidents and two secretaries. W. C. Barry has been the President for a long number of years and public approbation marked his re-appointment for another term. For twentyfive years, John Hall has held the pen with an intimate knowle acquaintance with the members that makes his efforts effective.

rel of apples, including the barrel, is shown by the experiment to be \$1.29. The average price received for each barrel of apples in experiment was \$2.60, so that the average annual profit on a barrel is \$1.31.

Cost of Production .- The items in the cost of a barrel of apples are as follows:

Interest on investment ..... \$ .21 Pruning ..... ..... ..... ..... ...... ..... .096 Spraying ..... in ..... ..... Superintending orchard ..... Picking, packing, sorting, handling ...... Cost of barrel ..... 244 .36

\$1.288

This orchard was 27 years old when the ex-The average yield per acre in the ten years that the experiment was carried on was 116.8 barrels, of which there was an average of 79.2 barrels of barre! stock and 37.6 of evaporator and cider stock. The orchard was tilled, treated each year with a cover crop of clover and sprayed three times a season in the first five seasons, twice a year in the second five seasons.

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How Return is Figured .- An average price of \$2.60 a barrel was received for barreled stock of the first and second variety. For evaporator and cider stock 67 cents a barrel was received. The manner in which the return of 183 per cent. on the investment is figured was described by Professor Hedrick, as follows:

Subtracting \$1.29, the cost of a barrel of apples, from \$2.60, the amount received, we have a net profit of \$1.31 a barrel for firsts and seconds. Multiplying by 79, the average number of barrels of firsts and seconds per acre, we have \$103.49 as the profit per acre for firsts and seconds. Subtracting 67 cents from 93 cents we have 26 cents as the difference between the average cost of production and the average selling price of the culls, or the evaporator and cider stock. Multiacre by 26, we have a loss of \$9.75 per acre on the culls. This leaves the average net profit per acre in this orchard for the past ten years \$93.74, making a dividend on the investment of \$500 an acre, of 18.75 per cent.

#### DETAILS ESSENTIAL IN PEACH PRODUC-TION.

A practical peach grower, George Friday, of Coloma, Mich., explained what he considered essential in the successful production of peaches and in most cases they apply to Canadian conditions in the last analysis.

The site is all important and any information along this line must be local. One's knowledge in one Province or State is not sufficient in another. He must understand local conditions.

Home production of nursery stock is the solu-tion of many troubles, said Mr. Friday. The nursery firms are doing a storing and boxing trade and when the buyer gets his stock in the spring it is often dried out, or it has been started slightly, and after the new leaf appears prior to setting the tree will not grow. This is not all. Mistakes sometimes occur in the variety and it is an easy thing to lose \$1,000 through varieties not being true to name. One instance ge of the Society's work and an the speaker cited was where Late Crawford was substituted on his own farm and had never been

quite severely the first two or three years, hut the speaker's advice was to start the tree right the first year of pruning and then allow it to grow wood on which to produce a crop. After the crop begins cut back the tops and side branches to keep the trees within reach and let the sunlight into the interior to color the fruit which grows on the fine growth within the tree. The argument in favor of this system is, that severe pruning encourages an immense growth which smothers out the wood on which the growth will be produced, but allowing the tree to grow more steadily and mature its wood the fine growths of the year previous will soon bear. Most growers want peaches as soon as they can get them. The trees, however, are pruned so seven-eighths of the peaches may be picked from the ground. They are thinned during the early summer to six or seven inches apart and allowed in this way to obtain size and color.

Troublesome diseases of the past season were discussed and explained by Prof. Donald Red-Apple scab appeardick, of Cornell University. ed to have done considerable damage in the United States as well as in Canada, and owing to the sudden forcing out of the bloom bringing standard varieties, such as Baldwin and Rhode Island Greening, into full bloom by May 4, prevented most growers from making the application of spray just before the blossoms opened. The last spray which follows the codling moth spray, by about two weeks, was omitted and has been omitted generally in the last five years. the four previous years it has not been needed, but in the year just past it would have had re markable results in controlling the scab. last ten days of May were extremely wet and had this last spray been applied prior to that time much of the injury resulting from scab would

have been curtailed. Yellow leaf or shot-hole of cherries is becoming troublesome. It is caused by a fungus and  $v_{h}$ occurs on both sweet and sour varieties, turning the leaves yellow and causing the foliage to drop prematurely. The disease has been controlled by spraying. On sour cherries, Bordeaux mixture was used and lime sulphur solution diluted one to forty (American measure). It has been con-trolled on nursery stock by using lime sulphur solution diluted one to forty to which two pounds of granular sulphate of iron were added. Another disease which caused comment was the mildew of peaches and it has been quite destructive in certain localities. Although few complaints are heard of it on this side, it might eventually become a troublesome disease, if it were not known of at the time of its introduction and its ravages curtailed. It appears as large whitish spots on the fruit and has a moldy whitish growth on the surface of the twigs and leaves often preventing leaves from unfolding properly. Scott's lime sulphur mixture was recommended by Prof. Reddick, who also said that the dormant treatments with strong lime sulphur solution should be valuable as well.

The co-operative end of the fruit industry was handled in a stirring way by Seth J. T. Rush, President of the Eastern Fruit and Produce Exchange. It seems strange that so little is done to extend the uses and markets of the apple, while the banana industry has grown from practically nothing to a yearly business of over \$15,-000,000. The grape-fruit industry has increased in like proportion and the orange industry has reached the enormous tonnage of over 100,000 cars consumed in the United States alone. While producers have boosted these fruits, apple growers have stood by complacently like Nero, who "fiddled while Rome burned."

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ntageous ed transof their nact suck per cent. o farms? through ibject. INSON.

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\$202,656.g year is e is under three milations are and canals introces in itures are acreases is 500. The ncrease of increase in

The exhibit of fruit in connection with the competitive. One of the most attractive exhibwas that of the New York Agriculits tural Experimental Station, which was composed of two hundred boxes of apples, comprising eighty different varieties. These varieties were standard and some that have been recently originated by the Station. Kach box was named with a small label, and this feature could very profitably be copied by Canadian truit exhibits, which are often composed of the very best varieties of fruit, yet visitors who come to see them are unable; without a great deal of trouble, to ascertain their names. Over five hundred plates of fruit, together with a few boxes and a few barrels, comprised the competitive exhibit, but the display of baskets, spraying materials and farm machinery was very pronounced and from them growers could learn what was newest in the way of labor-saving devices.

There is still a good profit from an apple orchard, as Prof. U. P. Hedrick, of the New York Agricultural Station, pointed. Basing his arguments on the results of a ten-year experiment, Prof. Hedrick declared it possible to secure 18% per cent. on an investment of \$500 per acre, or in other words, the average annual yield to the farmer on a ten-acre apple orchard conducted on simple and sensible modern principles is \$937.40. The average annual cost of producing a bar-

a producer. If one does purchase from outside it is often convention was more largely instructive than advisable to buy in the fall and heel in outside, or even to plant in the fall is not a mistake in many instances. One grower in Michigan plants in the fall and banks the earth up around the trees to where he intends to start the head and then removes the soil in the spring. Stock can often be purchased from two to three cents cheaper in the fall and offsets the expense of extra care. If planting is to be done in the spring, it is a profitable operation to dig the holes in the fall and fill them full of manure. This should be thrown out early in the spring so the holes will become dry and warm and the planting should be done as early as the soil and weather will permit. As this young stock has very lit-tle root system, cultivation should commence at once. The system on the Friday Farm is to plow once and harrow many times. The plowing costs about \$1.50 per acre and the harrowing 40 cents per acre. With the Forkner harrow now in use this expense has been reduced considerably until \$1.00 per acre is the cost of harrowing eight times when a man's wage is \$2.00 and that of a horse \$1.00 per day. Inter cropping is re-sorted to during the first two years, but after that time the trees are bearing and peaches are

The system of pruning as recommended by Mr. Friday is worthy of consideration. In most orchards in Canada it is the custom to prune

For every 1,000 inhabitants in 1910, the production of cereals came from 341 less acres, with 9,310 less bushels, but with a value amounting to \$9,460 more than in 1900-14 per cent. less land, 16 per cent. less product, but 48 per cent. greater value. The high cost-of-living prices do not affect the farmer, because he does not get them—his portion of the consumer's dollar is only 35 cents. It is the fundamental principle of economics that higher prices stimulate greater production, but it will never work unless the increased price goes to the producer.

Relative to parcels post, Mr. Bush said: "On the first of January, 1863, in the White House at Washington, Abraham Lincoln signed the Proclamation of Emancipation that gave freedom to 4, 000,000 slaves. On January first, 1913, under the Proclamation of Postmaster-General Hitchcock, 100,000,000 people of the United States were emancipated from the bondage of the express The people of this country were chained for 50 years to the express companies through the machinations of crooked politicians The mills of the gods grind slowly, but they The parcels post has come to grind to powder. stay-an illuminating proof of the falsity of the contention of the express companies that they could not afford to handle our products and mer chandise any cheaper."

When a grower once joins a co-operative exchange he should give it his loyal support, which

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does not mean any half-hearted support. It does not mean to use the exchange when you can't sell your products in any other way, or to use it only. in years when your crops are enormous and local dealers will not pay you living prices. It does not mean to use the exchange merely as a lever to force the local dealer to pay you what he can afford to pay, or what market conditions warrant. When one joins a co-operative society he does so because he recognizes the need of such an agency in the distribution and sale of his prolucts and he ought to have the courage of his convictions and at once discard for good and all the attitude of suspicion, distrust and antagonism which is more or less typical of growers everywhere.

Enumerating the advantages of their exshange, Mr. Bush referred to the thoroughness of the system whereby a salesman was on the spot when a consignment reached its destination. He had a complete manifest of the shipment, and could inspect and ascertain the condition of the goods. This forestalls the custom of the dealer wiring back, "Goods received in bad condition," when the the market is not favorable and he has bought f.o.b. In some cases damages have been collected, even on single baskets which arrived broken and part of the contents destroyed. In addition to this they have from 12 to 36 hours later information than the individual shipper, and are able to divert cars while en route, and thus prevent glutted markets and insure higher prices.

The products of Oregon and Washington are only a drop in the bucket compared with the output of New York State, yet with a freight handicap of fifty cents a hox or \$1.50 per barrel, the Pacific Northwest finds its principal market in the midst of the great apple-producing section of the East, and the only reason they are able to do this is because they maintain a high average superiority in quality and pack compared with the eastern growers. Co-operation, better packing, grading and marketing is the whole answer.

S. A. Beach, Vice Dean of Agriculture, at Ames, Iowa, treated the Outlook of the Apple Growing Industry. It is of interest to Canadian growers, and will be reported in a later issue. Mild Weather in Essex.

Editor "The Farmer's Advocate":

Toronto is jubilant over an early "Globe robin," but robins have never left our southern peninsula this season, and moreover the writer saw on Jan. 28th two blackbirds, an indication of very mild weather. Indeed, the season has been unusually mild with only a few snowstorms of short duration. Stock has been running out with little or no convenience and are doing well. Mild, moist weather during December seriously interfered with corn-shredding and clover-hulling, but slightly colder days in January have enabled workmen to overtake their work. Red clover seed is plentiful and a splendid sample, but greater attention requires to be paid by farmers in removing weeds before cutting in order that seed may be more marketable. Tobacco raisers are finding the market rather slow. Much of past season's crop still remains unsold. Many tobacco growers are contemplating curtailing their acreage, owing to conditions in marketing their produce. There is likelihood of a largely increased area being planted to both early and late tomatoes this year. Thousands of acres are being contracted for by the various canning fac-tories represented within the bounds of this county. The pickling company, Leamington, are materially increasing their plant, and will be prepared to handle a much larger quantity of vegetables than formerly.

The advocates of good roads have withdrawn their proposed scheme for the present, as it was not favorably received by the farming communities. No scheme which has as its projectors and advocates automobile manufacturers and pleasureresort speculators need seek support from farmers in Essex. A. E.

#### **Demanding Better Education.**

A large deputation of farmers waited on the Brant, Ont., county council recently and asked that better and higher education be given to the rural boys and girls, and favored cutting off all dealings with the Brantford Collegiate Institute,

and having instead continuation classes in the rural schools. The council promised to consider the request at once.

## Lambton County Corn Show.

Corn shows are becoming popular in Canada and United States at the present time. Not only do they present the proper type of ear and kernel, but they instill into the grower the idea. that corn is not only corn; it is a plant that will produce more feed per acre than any other farm crop, and a plant that responds to treatment and intelligent care in direct proportion to the amount expended in its cultivation.

The Lambton County Corn Growers were organized in April, 1918, and held their first annual show in Petrolia on January 28th and 29th, 1914. The efforts of the President, C. M. Fleck; Secretary, G. G. Bramhill, and their enthusiastic supporters were rewarded by an exhibit that exceeded even the hopes of the most optimistic regarding the initial show. The aim of the Association is to bring buyer and seller of seed corn in the county, together, and thus establish the use of seed that is home-grown and adapted to the climate and soil of the county. In accordance with this idea a class was opened for a display of an individual who had for sale 100 bushels or more of corn similar to his exhibit. The corn brought out in this class was strong evidence to the visitors that they could procure corn near home that was in all respects equal to imported seed. To say the least, the entries were numerous, the quality good, and the attendance demonstrated the interest displayed in this important crop in Lambton County.

During the addresses, in conjunction with the show, Prof. C. A. Zavitz, O. A. C., Guelph, Unt., thoroughly discussed the growing of corn and alfalfa, and their place in the rotation. L. D. Hankinson, of Aylmer, Ont., intimated that in seven years he had increased his yield of Longfellow corn from 85 bushels per acre to 185 bushels per acre through the selection of this seed.

## Markets.

#### Toronto.

Receipts at the Union Stock-yards, West Toronto, on Monday, February 2nd, were 52 cars, comprising 852 cattle, 494 hogs, 186 sheep, 29 calves; quality of fat cattle, medium to good; trade slow, at steady prices. Choice steers, \$8 to \$8.20; good, \$7.50 to \$7.75; common to medium, \$6 to \$7.25; cows, \$8.50 to \$7.25; bulls, \$5.25 to \$7; feeders, \$6.50 to \$7.85; stockers, \$5.50 to \$6.25; milkers, \$60 to \$90; calves, \$6 to \$11.50; sheep, \$5 to \$7; lambs, \$8 to \$8.75 for heavy; light, \$9 to \$9.50; hogs, \$9.25 to \$9.85 fed and watered, and \$9 f. o. b. cars.

course, they were not anxious to buy unless they got them at lower prices, which they did. Drovers had paid too high for their cattle in the country, and did not feel disposed to sell at a sacrifice, "which they eventually had to do," and this caused a very dull, draggy market all week. In sheep, lambs, and calves, there was little change, excepting that there is a large percentage of heavy lambs coming on the market, and these sold at lower prices. The hog market was much firmer at the close of the week, although there was a consignment of 12 decks from the Province of Alberta to the Swift Canadian Company, arrived on the market on Wednesday.

Butchers' .-- Choice butcher steers sold at \$8 to \$8.35 for loads; good, \$7.75 to \$8; medium, \$7 to \$7.50; common. \$6 to \$6.50; choice cows, \$6.75 to \$7; good cows, \$6 to \$6.25; medium, \$5.50 to \$5.75; common, \$4.75 to \$5; canners and cutters, \$3.50 to \$4.25; choice bulls, \$7 to \$7.50; good bulls, \$6 to \$6.75.

ments to St. Catherines and one to Huntsville, as well as one carload to Winnipeg. None of the selected drafters mentioned in our last letter were reported sold. Prices for those sold were reported as follows : Drafters, \$175 to \$250; general-purpose, \$150 to \$200; expressers, \$150 to \$210; drivers, \$100 to \$150; serviceably sound, \$30 to \$75. Prices, it will be seen, are steadily declining,f or the general run.

#### BREADSTUFFS.

Wheat .- Ontario, new, No. 2 red, white or mixed, 85c. to 86c., outside; 89c., track, Toronto, Manitoba, No. 1 northern, 95c., track, bay points; No. 2 northern, 94 [c.

Oats .- New, No. 2 white, 841c. to 85c. utside: 384c. to 39c. track

Poultry .-- Receipts were fairly liberal, and prices about steady. Turkeys dressed, 21c. to 28c.; geese, 17c. to 18c.; ducks, 17c. to 19c.; chickens, 17c. to 18c.; hens, 12c. to 14c.

#### TORONTO SEED MARKET.

Alsike, No. 1, per bushel, \$8.50 to \$9; alsike, No. 2, per bushel, \$7.50; alsike, No. 3, per bushel, \$6 to \$7; timothy, No. 1, per bushel, \$2.75 to \$8.25; timothy, No. 2, per bushel, \$2 to \$2.50; red clover, per bushel, \$8 to \$8.50; red clover, No. 2, \$7.75 to \$8.

#### HIDES AND SKINS.

No. 1 inspected steers and cows, 18c.; No. 2 inspected steers and cows, 12c.; No. 8 inspected steers, cows and bulls, 11c.: city hides, flat 13c.; country hides, cured, 184c.; calf skins, per lb., 16c.; horse hides, No. 1, \$3.50 to \$4 each; lamb skins and pelts, 75c. to \$1.25; tallow, No. 1, per Ib., 54c. to 7c.; horse hair, per lb., 88c. to 40c.

**REVIEW OF LAST WEEK'S MARKETS** The total receipts of live stock at the

City and Union Stock-yards for the past week were :

	City.	Union.	Total.	
Cars	11	266	277	
Cattle	870	8,338	3,708	
Hogs	80	7,374	7,454	
Sheep	402	1,157	1,559	
Calves	16	243	259	
Horses	28	47	75	
The total receipts of live stock at the				
two yards for the corresponding week of				
1913 were :				

	City.	Union.	Total.
Cars	. 19	256	275
Cattle	308	8,308	3,616
Hogs	96	6,363	6,459
Sheep	54	706	760
Calves	52	238	290
Horses	-	92	92

The combined receipts of live stock at the two yards for the past week show an increase of 2 carloads, 92 cattle, 995 hogs, 799 sheep and lambs; but a decrease of 31 calves and 17 horses, compared with the corresponding week of 1913.

Receipts of cattle for the past week were not nearly as large as for the previous week, but altogether too many for the demand. As a result, it was the dullest trade in cattle that has been experienced for some time. Prices declined 80c. per cwt. on an average, and in many instances there was a drop of 50c. per cwt. The cause was a heavy delivery for the previous week, when the butchers

Stockers and Feeders.-Light receipts of stockers and feeders caused prices to rule high. Choice steers, 900 to 1.000 lbs., sold at \$7 to \$7.35; medium steers, \$6.25 to \$6.75, and stockers, 450 lbs., sold at \$6 per cwt.

Milkers .- The market for milkers and springers was firm all week for good to choice quality, ranging from \$55 to \$90 each. The bulk sold at \$65 to \$80.

Veal Calves.-Receipts were light, and prices firm, but unchanged. Prices during the week ranged from \$10 to \$11.50 for choice veals; \$9 to \$10 for good; common to medium veals selling at \$6 to \$8.50

Sheep and Lambs .- Receipts were light all week. Choice sheep and lambs remained about steady, but heavy lambs were lower. Light ewes, \$6.50 to \$7; heavy ewes, \$5.50 to \$6.25; rams, \$5 to \$6.25; heavy lambs, \$8 to \$8.75; light lambs, ewes and wethers, \$9.25 to \$9.50. Hogs .- The market was much firmer a the close of the week. Selects, fea and watered, sold at \$9.25 to \$9.50, and \$9 to \$9.15 f. o. b. cars, and \$9.75 weighed off cars.

Horses.-Receipts of horses at the Union Horse Exchange, Union Stockyards, for the past week were liberal. There were many drafters of fine quality, but few sales were reported, as the trade was very quiet. Besides the local demand, there were a few shipments made and packers bought liberally, and, of to the following points: Two consign-

Manitoba oats, No. 2, 41c.; No. 3, 89 tc., lake ports.

Rye.-No. 2, 62c. to 63c., outside. Peas.-No. 2, \$1 to \$1.05, outside. Buckwheat .- No. 2, 75c. to 76c., outside.

Corn.-American, No. 3 yellow, 70c., all rail, track, Toronto.

Barley .- For malting, 54c. to 55c.; for feed, 43c. to 45c., outside.

Flour.-Ontario, ninety-per-cent. winterwheat flour, new, \$3.50 to \$3.55, bulk. seaboard. Manitoba flour-Prices at Toronto are : First patents, \$5.30; second patents, \$5; in cotton, 10c. more.

#### HAY AND MILLFEED.

Hay.-Baled, car lous, track, Toronto, \$14 to \$14.50 for No. 1, and \$18 for No. 2.

Straw.-Baled, car lots, track, Toronto, \$9 to \$9.50.

Bran.-Manitoba, \$22.50 to \$23.50, in bags, track, Toronto; shorts, \$23 to \$25; Ontario bran, \$23, in bags; shorts, \$24; middlings, \$26.

## COUNTRY PRODUCE.

Butter .- Market was steady. Creamery pound rolls, 32c. to 34c.; creamery solids, 28c. to 30c.; separator dairy, 27c. to 28c.; store lots, 24c. to 25c.

Eggs .- New - laid, 40c. to 42c.; coldstorage, 35c. to 36c.; selected cold-storage, 38c.

Cheese .- Old, large, 15c.; twins, 151c.; new, 14c. for large; 141c. for twins. Honey.-Extracted, 10c. per lb.; combs, per dozen sections, \$2.50 to \$3.

Potatoes .- Car lots of Ontarios, track. Toronto, 80c.; New Brunswick Delawares, 90c. per bag, track, Toronto.

#### FRUITS AND VEGETABLES.

Apples, No. 1 Spies, \$5; No. 2 Spies, \$4 to \$4.50; Baldwins, \$3.25 to \$4; Greenings, \$3.50 to \$4.50; Russets, \$3 to \$3.50; onions, Canadian reds, \$2.50 for 75-lb. sack; New York yellow, 100-lb. sack, \$3.50; Spanish onions, \$4 to \$4.50 🗰 for large case; celery, per case of four and one-half dozen, \$4 to \$4.75; beets, per bag, \$1.25; carrots, \$1 per bag; parsnips, per bag, \$1.25; cauliflower, two dozen in a case, \$2.75 to \$8; Florida cucumbers, per case, 21 dozen per case, \$3.50 to \$3.75; Florida strawberries, 40c. to 50c. per quart.

## Montreal.

Live Stock .--- The offering of cattle on the local market was quite large, and as demand was not overly active, an easier feeling prevailed in the market. Prices showed a slight decline, at 8c. per lb. for choicest steers; fine could be had at around 71c.; good ranged from 61c. to 71c., and medium from 6c. to 61c. Lower grades sold down to 4c. for butchers' cows and bulls and common steers. The offerings of lambs and sheep were light. Lambs sold at 8c., and sheep at 5c. to 6c. per lb. Calves were in moderately good demand, and prices ranged from \$8 to \$6 for common, and \$7 to \$12 for choice. There was a fair demand all the way round for hogs, and selects were sold

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1, \$7.50; o \$7; timto \$8.25; 2 to \$2.50: \$8.50; red

cows, 18c.; ows, 12c.; and bulls,

THE ROYAL BANK **OF CANADA** Capital Authorized - \$ 25,000,000 Capital Paid Up - 11,560,000 -13,000,000 Reserve Funds -Total Assets - - - 180,000,000 HEAD OFFICE: MONTREAL Branches throughout every Province of the Dominion of Canada. Accounts of Farmers invited. Sale Notes Collected. Savings Department at all Branches. at \$9.65 to \$9.75, while straight lots were \$9.40 to \$9.50 per 100 lbs., weighed off cars. Some Manitoba hogs were offered, and prices were on the easy side, at \$9.25 to \$9.40 per 100 lbs., weighed off cars. Horses .-- Quite a few horses changed hands, but prices showed no change. Heavy draft, weighing from 1,500 to 1,700 lbs., sold at \$375 to \$825 each; light draft, 1,400 to 1,500 lbs., \$225 to \$250 each; broken-down, old animals, \$75 to \$125, and choicest saddle and carriage animals, \$850 to \$500 each. Poultry .-- Demand for poultry was moderately active. Turkeys were 19c. to 21c. per lb.; ducks and chickens, 15c. to 18c.; fowl, 12c. to 14c., and geene, 14c. to 16c. Dressed Hogs .-- Dressed hogs were firm

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last week. Abattoir-dressed, fresh-killed stock, sold at 18%c. to 14c. per lb., while country - dressed sold at 184c. to 184c. per lb. for light weights, and 12c. to 124c. for heavy weights. Potatoes. -- Stocks were moderately

large. Green Mountains were 75c. to 80c. per bag, ex track, in car lots, while Quebec varieties were 65c. to 70c. per bag. In a jobbing way, prices were 15c. to 20c. higher, ex store. Bags weigh 90 pounds.

Honey and Syrup .-- White - clover comb was 15c. to 16c. per lb.; extracted, 10ic. to 11ic.; dark comb, 18c. to 14c., and strained, 74c. to 84c. per lb. Tins of maple syrup sold at 9c. to 10c. per lb., while syrup in wood was 7c. to 8c., and maple sugar, 9c. to 10c per lb. Eggs .-- Prices of eggs showed little change. Strictly-fresh stock sold at 42c. to 48c. per dozen; selected eggs, 85c. to 86c.; No. 1 candled, 80c. to 81c., and

No. 2 candled, 26c. to 27c. Butter.-The market was steady, and moderately active. Choice makes were 28ic. to 29c. per lb., wholesale; fine butter was 27 jc. to 28c., while second grades were 26 t. to 27c. Dairy butter was firm, at 23c. to 24c. per lb. for Ontarios, and 22c. to 22kc. for Manitobas. Grain.-No. 2 Western Canada oats were quoted at a slight advance, being 421c. per bushel, ex store, in car lots; No. 8, 411c., and No. 2 feed, 391c. to 40c. Flour.-Manitoba first-patent flour was quoted at \$5.40 per barrel, in bags; seconds being \$4.90, and strong bakers' \$4.70. Ontario winter-wheat flour was unchanged, at \$4.75 to \$5 for patents, and \$4.50 to \$4.60 per barrel, in wood, for straight rollers. Millfeed .- The market for millfeed advanced. Bran sold at \$22 per ton, and shorts at \$24 in bags, while middlings were \$27, including bags. Mouille was \$30 to \$32 per ton for pure, and \$28 to \$29 for mixed.

## THE FARMER'S ADVOCATE.

## Buffalo.

Dr. Maria Montessori

The cattle market at Buffalo the past week was lower, conditions being weak, at practically all of the markets. Buyers of good weight steers are complaining that offerings in this line are running largely to the warmed-up, half-tothree-quarters fat steers, which show a small killing percentage, and which prove dearer hanging on the hooks than the real choice to prime grades, which show a much larger killing percentage, and which are more ready sale. Market here on all grades, with the possible exception of some real, prime shipping and handier steers, and some nice, tidy, tasty heifers, was 15c. lower, and some plain, coarse steers, sold even to worse advantage, being about the last class of stuff to move, and being draggy throughout the sessions. Monday, there were around 185 loads on offer, about 25 cars being steers on the shipping and export demand order. Swift and Armour were the main support to this end of the trade, best heavy steers ranging from \$8.60 to \$8.90. Best handy steers reached up to \$8.85. Most of the shipping steers ran from 1,150 to 1,250 lbs., and few that attracted much interest. No Canadians were offered in this line. Some few fancy heifers sold up to \$7.50 to \$8, but in loads it was mainly a \$7 to \$7.25 for pretty good killing grades, some other market heifers that lacked finish going over the scales at \$6.80. Very few stockers and feeders offered, and demand was strong for anything in this line, order buyers having quite a few orders for both stock and feeding cattle, Bulls are selling strong, and bringing more money, in comparison, than any other grades. Only the best kinds of fresh cows and springers are finding satisfactory outlet, medium and commoner ones being very slow, and in many cases bringing more money for beef. At the close of the Monday trade, a practical clearance was had. For the balance of the week receipts were light, but trade was slow. About the best in the shipping steer line after Monday, sold at \$8.60. Butchering cattle ran principally to the cheaper grades, and found barely steady to 10c. lower sale than for the opening day. The week's trade wound up to better advantage than the middle of the week, the west cleaning up in pretty good shape. Weather has been soft most of the week, and this operated against the beef trade. Receipts for the week totalled 4,025 head, as against 3.925 for the previous week, and 4,290 head for the corresponding period a year ago. Quotations follow :

Prime, weighty steers, \$8.60 to \$8.90; fair to good, weighty steers, \$8.20 to \$7.80 to \$8; good, medium, weighty steers, \$8.40; plain and coarse, weighty steers, \$8.20 to \$8.35; fancy yearlings, \$8 to \$8.25; fair to medium, \$7 to \$7.50; hest handy-weight steers, \$8 to \$8.35; medium. handy-weight steers, \$7.50 to \$7.75; prime and fancy fat heifers, \$7.50 to \$7.90; good butcher heifers, \$6.60 to \$7.25; medium fat heifers, \$6 to \$6.50; prime, weighty, fat cows. \$6.50 to \$7; good butchering cows, \$5.50 to \$6; fair to medium butcher cows, \$4.75 to \$5; cutters, \$4.25 to \$4.50; canners, \$3.60 to \$4; feeders, good to choice, \$6.75 to \$7.25; feeders, fair, \$6.25 to \$6.40; stockers, good to best, \$6.30 to \$7; stockers, fair to medium, \$5.75 to \$6; stockers, little, common, mixed, \$5 to \$5.50; best butcher and heavy buds, \$6.75 to \$7.25; medium butcher and sausage bulls, \$6.25 to \$6.75; stocker or thin bulls, as to quality, \$5 to \$5.50; extra fresh cows and springers, \$90 to \$100; best large cows in loads, \$65 to \$70; fair to good in loads, \$50 to \$55; common to fair, \$30 to . \$40. Hogs .-- Trade for the first part of last week was higher than for the previous week's close, bulk selling at \$8.90. Tuesday, Wednesday and Thursday, prices declined, dropping to \$8.60 to \$8.65, and the latter part of the week a reaction was had, bulk bringing up to \$8.80, with a few decks at \$8.85. Pigs ranged from \$8.40 to \$8.75; roughs, \$7.75 to \$8; stags, \$6 to \$7. Receipts for the past week, 35,360; previous week, 33,920; year ago. 37.600. Sheep and Lambs .- Everything, especially the weather, was against this end of the trade the past week, resulting in a demoralized trade, prices on lambs declining nearly every day during the week. Monday was the high day for lambs, bulk

selling at \$8.35, and before the week was over, buyers got choice ones down to Heavy lambs were extremely bad \$8. sale, selling at about the same as culls, ranging from \$7.25 down. Sheep supply was light, in proportion to receipts, and prices on these were held about steady all week, there being some request for export wethers; the top for this class of stuff being \$6. Ewes sold from \$5.58 down, and cull sheep from \$4.50 down. Receipts for past week, 31,600 head; previous week, 36,200; year ago, 28,400.

Calves.-The week started with a \$12.50 market for tops, balance of the week prices being lower, choice ones selling mostly at \$12. Culls sold from \$10 down, and fed calves, \$5 to \$6.50. No Canadians offered. Receipts for week, 1,300; previous week, 1,325; year ago, 1.725.

## Chicago.

Cattle .- Beeves, \$6.80 to \$9.50; Texas steers, \$6.90 to \$8; stockers and feeders \$5.40 to \$8.10; cows and heilers, \$3.60 to \$8.55; calves, \$7.50 to \$10.50.

Hogs.-Light, \$8.30 to \$8.55; mixed, \$8.30 to \$8.60; heavy, \$8.25 to \$8.60; rough, \$8.25 to \$8.35; pigs, \$6.50 to \$8.80; bulk of sales, \$8.40 to \$8.55.

Sheep and Lambs .- Sheep, native, \$4.80 to \$6; yearlings, \$5.85 to \$7; lambs, native, \$6.85 to \$8.

## Gossip.

Robert Miller, manager of the Short-horn sale just held in Toronto, states that "The Farmer's Advocate" brought enquiries for every catalogue of the sale that he dare send out.

In the advertisement of Tamworth pigs, the property of John W. Todd, Corinth, Ont., and which appeared in our issue of January 29, an error occurred in price, which should have read \$15 to \$30, in place of \$5 to \$80, as published.

Attention is called to the great dispersion sale of Clydesdales and Shorthorns, the property of R. Nichol & Son, Hagersville, Ont., to be held at their farm, near the above address, Thursday, March 5th. Do not fail to see this advertisement. Further announcement next week.

Attention is called to the auction sale of F. E. L. Talbot, Lambeth, Ont., on February 18th. Mr. Talbot has sold his High grade Holsteins, grand farm. cows, high - class horses and pigs, and good implements, will be offered, without reserve. See the advertisement.

The annual statement of the Dominion Bank for the year ended 31st December, 1913, was the best ever issued by this institution. The net profits amounted to \$950,402, as compared with \$901,000 for the previous year, and \$704,000 for 1911. In addition to the net profits of \$950,-000, the bank received as premiums on new capital stock, the sum of \$811,000, and brought forward from the previous year a balance of \$688,000, making a total of \$2,449,000 available for distribution. Dividend disbursements and bonuses took \$765,000, and reserve fund \$811,000, investments account \$200,000, and officers' pension fund \$25,000, leaving \$647,000 to be carried forward. The bank has now a paid-up capital of \$5,811,000, a reserve of \$6,511,000, and total assets of \$80,506,000. The year has been an exceptionally prosperous one for the Dominion Bank.

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## News of the Week

## CANADIAN.

Ex.-President Taft, who was the guest of the City of Toronto last week, .may return during the academic year of 1914-15, to deliver a course of lectures at the University.

The three members of the Quebec Legislature accused by the Montreal Daily Mail of accepting bribes for the passing of the Montreal Fair Association Bill, resigned on January 29th. The investigation in both houses will, however, be carried on.

Sir George W. Ross is in Toronto General Hospital, occupying a room in the same wing in which Sir James Whitney is slowly recovering.

. . . . The new parcel - post system will be inaugurated early in February. . . . .

BRITISH AND FOREIGN. A force of 2,000 bandits, under "White Wolf," on January 29th, sacked and burned the city of Liuan Chow, China.

. . . . By a bill passed in Pekin by the Administrative Council, which, under Yuan Shi Kai, has supplanted the Chinese Parliament, Confucianism has been made the state religion of China. The bill was introduced by Yu

country s, per lb., 3.50 to \$4 . to \$1.25; 7c.; horse

#### BLES.

. 2 Spies, 5 to \$4; sets, \$8 to \$2.50 for w, 100-lb. 14 to \$4.50 se of four 1.75; beets, L per bag; flower, two 88: Florida per case, perries, 40c.

cattle on rge, and as , an easier et. Prices 8c. per lb. be had at m 64c. to 6ªc. Lower r butchers teers. The were light. at 5c. to moderately red from \$8 to \$12 for nand all the ts were sold

Hay .-- Prices were about steady. No. I pressed hay, car lots, Montreal, ex track, \$16 per ton; No. 2 extra good, \$14, and No. 3, \$13

Seed .- Timothy seed was steady. Dealers were bidding 51c. to 61c. per lb., country points. Alsike was about the same as a year ago, being \$8 to \$10 per bushel of 60 lbs. Red clover was lower, at \$8 to \$9.50 per bushel.

Hides .- Beef hides were 12c., 13c. and 14c. for Nos. 3, 2 and 1, respectively. Calf skins were 15c. and 17c. for Nos. 2 and 1. and lamb skins were \$1.10 each, with horse hides ranging from \$1.75 for No. 2, to \$2.50 each for No. 1. Tallow sold at 11c. to 3c. for rough, and 5c. to 64c. for rendered.

#### SALE DATES CLADIED.

February 9th and 10th .- Annual Combination Sale of pedigreed Clydesdales and Percherons, at Union Stock - yards, Toronto.

February 11th .- A. E. Hulet, Norwith, Ont.; Holsteins; dispersion.

February 10th .- Southern Ontario Consignment Sale Co., Tillsonburg, Ont.; Holsteins.

February 18th .-- F. E. L. Talbot, Lambeth, Ont.; Holsteins; grades

February 20th .-- W. J. Beaty, Guelph. Ont.; Jersey cattle and horses.

March 5th .-- R. Nichol & Son, Hagersville, Ont.; Shorthorns and Clydesdales. March 4th.-Annual Provincial sale of pure-bred cattle, at Guelph,

March 11th .-- G. H. McKenzie, Thornhill, Ont.; Holsteins,

March 10th .-- Norfolk Holstein-Friesian Breeders' Club, at Sincoe, Ont.; Holsteins.

March 12th .-- H. R. Patterson, Paris, Ont.; Holsteins.

March 24th .- Baies Bros., Lansing, **Ont.:** Holsteins.

April 9th .-- P. J. Sally, Lachine Rapids, Que.; dispersion sale of Holsteins.

## **Trade Topics.**

Attention is called to the advertisement in this issue of butter and egg cartons for sale by the Rudd Paper Box Co., Ltd., of Toronto. This advertisement is worthy the attention of producers of these farm products.

It is reported that President Wilson inclines to the British view of the Panama Tolls question, and may take steps to do away with discriminations contrary to the provisions of the Hay - Pauncefote treaty.

....

Ten of the principal labor leaders have been deported from South Africa. A large force of police and detectives are on board the steamer Umgeni on which they are being taken to England.

. . . .

Thirty-nine lives were lost by the ramming of the steamer Monroe by the liner Nantucket in a fog off the coast of Virginia, on January 30th. The Monroe plunged to the bottom so quickly that few rescues could be made.

....

Dried vegetables, especially potatoes, peas and beets, are being extensively prepared in Germany. Five hundred thousand tons of potatoes were dried last year. They are used for pastry and bread, in making soup tablets, and food for animals.

....

The total capital of British film-making firms is £2,500,000, and about 50 million feet of film are used daily. The first picture theater was at Olympia, when Mr. Robert Paul ran a small hall in 1896. There are now over 6,000 picture theaters in the country, and there is a weekly attendance of eight million persons. Over £13,000,000 is invested in the business.-T. P.'s Weekly.

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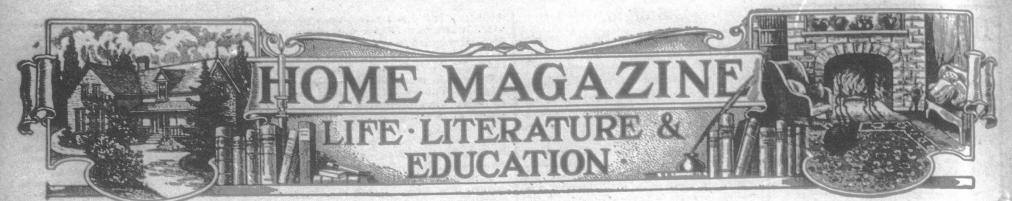
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## Winter Wheat. By Helena Coleman.

Thrilled by the thought of underlying

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spring, The little emerald blades unfold to

greet promised heritage of sun and Their heat,

With life's wild rapture eager, hastening. How should they know that winter yet must bring

Its icy chains to bind the tender feet-That driving storms of snow and chilling 'sleet

And javelins of frost shall smite and sting ?

Thou, too, O eager heart, that dost

aspire To bring to harvest thy perfected

grain, And reach thy promised heritage of

higher Endowment, must be swept by storms

of pain-Must know the anguish of delayed desire, And feel the biting tooth of cold dis-

dain !

## Little Trips Among the Eminent. **Canadian** Poets.

## By Clayton Duff.

HELENA COLEMAN. "Songs and Sonnets," the attractive

volume of poems by Helena Coleman, was published seven or eight years ago under the auspices of the Tennyson Club of Toronto, and aroused immediate and wide - spread interest. Since then, few Canadian poets have been more often quoted, while there seems to be a note of regard in the reference made to her that is deeper than mere admiration. For there is nothing specious and superficial in these songs and sonnets. They are the expression of a warm, sincere, and thoughtful personality, and speak directly to the hearts of their readers.

To most of the latter it is now well

or lapse of form, and feels a sense of satisfaction in the poet's sureness of touch. This feeling is often heightened to surprise and pleasure by some line or phrase of especial felicity.

In this respect her sonnets, on the whole, contain her best work. The sonnet in some hands gives an impression of formality that tends to repel the reader, but to Miss Coleman it seems to be such an instinctive form of expression that we lose the sense of its limitations, or feel that they have given only happier wings to the poet's thought.

"Upon a Western prairie once I met

A flock of pelicans-a glorious sight ! Now in the sun they gleamed a daz-

zling white, Now, circling, darkened to a silhouette; Great - breasted things, with sweeping

pinions set To rhythmic curves of slow, majestic

flight. They rose into the measureless blue height,

Undaunted, radiant-I see them yet.

"I see them yet ! for when I turn my eyes

Beyond these city walls of my despite, Behold their buoyant forms still sweep the skies

Like spirits of the air, incarnate, bright,

And something untamed in me seems to

rise And with them breast those boundless

seas of light !"

The effect of sublimity imparted by this fine poem, "The Pelicans," is a manifestation of the exalted feeling that nearly always marks her attitude toward nature. Her delight in it is seldom merely sensuous. To her, nature is none the less dear because she looks beyond its superficial charm for the spiritual meanings which it typifies.

It is this spiritual quality that gives the great distinction to Miss Coleman's verse. Occasionally, she may have a mood of questioning or regret, but nearly always her influence is consoling or inspiring. She invigorates us by her courage, and we catch the contagion of her faith and spiritual yearning. To read "Songs and Sonnets" gives life a deeper meaning, greater possibilities, a more sacred beauty. It is no mere shallow optimism she expresses, but the convictions of one who has tested existence and has been enriched by her experience. The spiritual largeness and sweetness she can draw from the "ache of earth" are beautifully revealed in "Our Common Brotherhood," which brings a sense of joy in its fresh assurance of the divinity of life.

"Nor love again - I gave for Him instead.

And poured upon His low, unconscious head.

sacramental love that shrives the dead.

"And though I went my way with eyelids wet

For grief of One whom I had never met, Because His day so soon was ended, yet

"I turned my face up Heavenward again,

Believing human love is not in vain ; And, moved and softened by the sudden strain

"Of fellowship, I touched the larger mood

Of universal love, and understood The passion of our common brother-

## hood."

#### **Historical Series.** THE HERO OF THE MISSISSIPPI.

He who travels through the United States of to-day and floats down over the broad, tawhy bosom of the Mississippi, sees a wonderful scene of life and civilization. Over the waters steam and puff and pant myriads of water - craft, steamers and tugs, and smaller riverboats; extending back from the shores may be seen a broad vista of cultivated fields, the grain and corn of the Northern and Middle States merging into the sugar and cotton areas of the South; everywhere are peaceful workers, while ever and anon, creeping down towards the river-front as is their wont, appear cities and towns and villages, with spires and chimneys and curls of black smoke and silvery steam rising upward against the sky.

Three hundred years do not seem long in the history of the world, yet even 300 years ago, what 'a different scene was presented. The broad prairies were here, to be sure, and sunny vales all interspersed with groves (over and over again the journals of the first voyagers down the Mississippi, the "Colbert," as

strange country into which Robert Cavelier, Sleur de la Salle ventured on tha greatest of his many and thrilling journeyings by sea and by land. True, Joliet and Marquette had sailed over the red. muddy waters before him, reaching the mouth of the Arkansas, but La Salle was the first to explore the great river to its mouth, the great triple mouth where merge the waters of half a continent with the salt seas of the Mexican gulf.

Before that, however, he had touched intimately this Canada of ours, and so his place is appropriate in these of necessity meagre gleamings from the lives of the men who have left so great an impress upon our country. Pitifully meagre -yet the writer will be well repaid if the reader, by means of these epitomes, is inspired to read further from the books in which "space" has been no consideration. For the life of La Salle, those who are interested can scarcely do better than turn to Parkman's "Discoverers of the Great West," and subsequently to the journals of the very men themselves, as contained in a little book with a long title-"The Journeys of Rene Robert Cavelier, Sieur de la Salle, as related by Tonti, Fathers Membre, Hennepin, Douay and Le Clerq; by Joutel; and La Salle's brother, Jean Cavelier; edited by Isaac Joslin Cox, Ph.D., Instructor in History, University of Cincinnati." And now to the life-story of this great, though unhappy, man.

#### LA SALLE IN CANADA.

Rene Robert Cavelier, Sieur de la Salle, was born in Rouen, France, in 1648, a younger son in the family of a rich burgher. He spent the earlier part of his life in a Jesuit seminary, but finding so quiet a life not at all to his taste, he eventually left the school and made his way to Canada, where an elder brother, Abbe Jean Cavelier, was already numbered among the Sulpitian fathers of Montreal.

Before long the younger Cavelier was given a grant of land near the end of the lake expansion of St. Louis, and within hearing of the brawl of the rapids by yond. He called the spot La Chine (was the name, an indication of his daydreams ?) and at once proceeded to have an enclosure palisaded and a village founded, giving the villagers each a third of an acre of land within the enclosure, and a farm without.

known that Helena Coleman is a native of Toronto, a sister of the eminent geologist, Prof. A. P. Coleman, of Toronto University, with whom she resides. It is not surprising, to one familiar with her poetry, to learn of her love of music, her interest in social work, or the pleasure she finds in the company of congenial friends. The independence of spirit revealed in such poems as "Conquest," and "Give Me No Pity," is well known to her acquaintances, and it makes the courage we draw from her writings all the more inspiriting to find that she has not been daunted by trying limitations in her own existence.

" Denial has been my armor, well-tempered and bright,

From pain I have woven banners both crimson and white."

While "Songs and Sonnets" was the work of a new writer, there was none of the immaturity of the novice in its workmanship, range of thought, or the experience of life which it revealed.

Helena Coleman has not the magnificent imaginative quality of Isabella Valancy Crawford, nor yet, perhaps, such an exquisite instinct for poetic expression as Bliss Carman, Phillips Stewart, or Marjorie L. C. Pickthall, and in summing up his impressions of her book, one might wish for a little less evenness. might like to see the author at times more irrepressible, not always so well controlled. But if the smooth, unlabored flow of her verse sometimes deceives the reader into underrating the difficulty of its execution, one with a fastidious ear appreciates how rare are crude expression

- "I never saw His face, or knew His name,
- But that gay morning as I loitering came
- Around the blossoming hillside all aflame,

"With lilac spires and apple - blossoms brave,

- That to the rifling air their sweetness gave,
- saw where they were making Him His grave.
- " If I had chanced to meet Him by the way,

In all the golden sunshine of the day, No pleasant word I might have found

- to say;
- "But since He could no longer come to meet
- The world, love-smitten, dreaming at his feet,
- Nor feel within his pulse the spring-tide beat.

it was called by these Frenchmen of the long ago, dwell upon the beauty and beneficence of the country, the fruit trees growing wild, the mulberry groves, the nut trees, the flowers all a-bloom in January)-but instead of broad acres over which whirr binders and modern machinery of all kinds, the prairies of that day grew rank with prairie grass, and over them thundered countless herds of bison,-M. Cavelier (brother of Robert) tells about witnessing, in 1687, a buffalohunt in which 150 Indians took part, 'all on horseback, armed with lances tipped with sharpened bone, well tied and encased, each of whom attacked a bull"; then, too, the groves deepened here and there into forests dark and dank and miasmic marshes now for the most part done away with; and instead of the prosperous cities with their spires and chimneys, and curls of dark smoke and hurrying multitudes clattering over granolithic sidewalks, were then to be seen, towns and villages, to be sure, yet towns and villages of strange aspect, peopled by tribes whose exact like are not on the earth to-day.

Many have written of them, especially those raconteurs who went with La Salle on those first venturous voyages - his brave lieutenants, Tonti and Joutel, Fathers Zenobius Membre, Le Clerq, Douay, and M. Cavelier-and have left with us pictures clear almost as those taken with camera, pictures of the skin tents of the North, of the mud and matting abodes of the South, pictures of the people and their customs and their rites. But of this later.

But he did not intend to remain at La Chine. With all of Champlain's daring and fire of imagination, he was weaving a web of life for the future, and even taking first steps towards its realization; already a scholar, he knew how to study, and within two or three years had mastered, not only the Iroquois, but seven or eight other Indian dialects.

Finally the time seemed ripe, and in 1669 he sold his seigneury to get money for his first trip westward.

. . . .

On the 6th of July, 1669, the time of year in Canada when skies are blue and all the landscape green, and all the waters ripple in glittering beneficence, La Salle left La Chine with a party of Sulpitian fathers and others, in all, @ company of twenty-four men, in seven canoes, beside two canoes with Indian guides. His intention was to go to the Ohio, that of the priests not so clearly defined, but at all events the party pushed on, up the St. Lawrence, paddling, portaging across the broad bosom of Lake Ontario, until at last the village of Otinawatawa, a few miles north of where the city of Hamilton now stands, was reached.

Here the travellers were warmly welcomed by the Indians, and given as a present a Shawanoe prisoner who promised to be useful as a guide. When op This, then, a first dim glimpse into that the verge of re-embarking, however,

D 1868.



rt Caveon the ing jourue, Joliet the red. ning the La Salle eat river ath where continent an gulf. touched , and so of neceslives of t an imy meagre aid if the tomes, is he books consideralle, those do better overers of iently to nemselves, t with a tene Rob as related Hennepin, ; and La edited by uctor in ti." And nis great,

## A.,

e la Salle, 1648, a of a rich r part of ut finding his taste, and made elder broalready fathers of

relier was end of the and within rapids by La Chine of his dayd to have a village ch a third enclosure,

## FEBRUARY 5, 1914

chance meeting altered, to some extent, the course of action. It was learned that two other Frenchmen, but from the West, had just arrived at a neighboring village, and a hait was called in order to hear what these travellers had to say, an interesting enough story since one of the newcomers proved to be none other than Joliet on his way back from one of his earlier trips to Lake Superior. He showed a map and told of the Pottawattamies and other tribes of the Upper Lakes, and such was the effect of his recital that the Sulpitians resolved to go thither. La Saile, however, clung to his original plan of going to the Ohio region, and so before long a separation was made, not at all to the regret of La Salle, who by no means relished a divided command such as that of the party had so far been.

The priests crossed to the Grand River, and went down it to Lake Erie, which they found "tossing like an angry Somewhere near Long Point they decided to camp for the winter, built a log cabin, and collected stores, drying wild plums and grapes, and gathering chestnuts and hickory nuts. In the spring they went on to Sault Ste. Marie, where they found Fathers Dablon and Marquette, but before long they returned via French and Ottawa Rivers, to Montreal. The most notable event of their trip was the drawing, by Father Galinee, of the earliest map of this region known.

La Salle, in the meantime, promptly disappeared. For the two following years, almost nothing is known of his doings. His journals and maps were lost, and it is only surmised that he discovered the Ohio. It is known, however, that in 1670 he followed the lakes as far as Michillimackinac, that he went on to the southern part of Lake Michigan and crossed to the Illinois, and some maintain that he reached the Mississippi itself two years before Joliet and Marquette saw it. This, however, has never been substantiated.

Finally, however, he returned, and once more became definitely identified with the fortunes of early Canada.

LA SALLE AT FRONTENAC (Kingston). La Salle appears at all times to have been in high favor with the Count de Frontenac, that proud and strong Governor who, during his term of administration, conducted the affairs of the new country with a capable, if misunderstood hand, and on his return from the Illinois, he was sent by the latter to summon deputies from the Iroquois towns to meet in a grand council at Cataraqui, where the Governor had decided to build a fort, both as protection to the colony and a base for the fur trade from the West Frontenac was always fortunate in his dealings with the Indians. He seems to have tried to be fair with them, and he well understood the pomp and show and touch of aloofness that impress the primitive mind. Can we realize the scene at Cataraqui upon the day of that council ? Parkman has described it with all his brilliance of word-picturing :- the approach of Frontenac with his flotilla of 120 canoes and two flat -boats brilliantly painted with red and blue; the formation into line of battle as the pcint of landing was neared-(the spot where the barracks now stands); the brilliant uniforms of the French; the roll of drums: the presenting of arms; the ejaculations of astonishment of the Indians; the ceremony of procedure according to Indian etiquette: the eloquence of the addresses; the speech of Frontenac, who addressed his audience as "My Children,"-not "My Brothers." as former governors had done-and told them about their great king across the water. There was feasting, and there were presents of tobacco, guns, prunes. and raisins, and the result was, that with the concurrence of all the establishment of the fort was decided upon. At once the men set to work, and before ten days, with a speed that astonished the Indians, "Fort Frontenac" was almost completed. La Salle, who offered to maintain the place at his own expense if given control over the fur trade at that point, was given the seigneury of the fort and its adjoining lands. ' During his time of administration there, he seems to have shown considerable ability. Fort Frontenac in his time, we are told, consisted of wooden barracks, lodgings, a forge,

#### well, mill, and bakery, with a village of that fair dream must be left for a later a five-foot-long toboggan on each foot is French settlers in the fort, and beyond issue. that a village of Iroquois Indians, and the house and chapel of the Recollet friars, Buisset and Hennepin; but La Salle speedily had the wooden defences replaced by stone ramparts and bastions, and also had built for his fur trade four small-decked vessels, the first that ever floated on Lake Ontario.

Dr. Maria Montessori



The Rodelbahn.

JEALOUSIES AND MISUNDERSTAND-INGS.

At Fort Frontenac, however, came the beginning of La Salle's trouble. The merchants of Canada, jealous of the favor with which he was regarded by the Governor, and the fur-trading privileges which came in its wake, speedily became his bitter enemies. Moreover, although La Salle appears to have been unusually happy in his dealings with the Indians, he had little or none of Champlain's powers of securing the enthusiasm of those of his own countrymen with whom he had to do. An excessive reserve and shyness appears to have wrapped him about with a mantle of aloofness and sealed his lips. "A man of great intelligence and sense," one who met him about this time on one of his trips to France wrote of him, "but he rarely speaks of any subject except when questioned about it, and his words are few and very precise."

much and dreamed more. He had the the multitude who one day spat upon amusing ourselves at the Sportplatz.

I'HE FARMER'S ADVOCATE.

#### (To be continued.)

## **Travel Notes.** (FROM HELEN'S DIARY.)

Garmisch, Dec. 28, 1913. We are up in the high mountains of Bavaria, having the jolliest kind of a time. There are six of us-all students from Munich. Two are Chicago girls who are studying art; one is a handsome, dark-eyed Russian pianist; and one a lively, red - headed Irish widow, who is soon to appear on the operatic stage. Olivia and I call ourselves students, too -because we are grappling with the German language.

Munich was so depressingly gray and drizzly that we made up our minds all at once to escape, and come up here among the snow peaks where the sun was shining, for, when Munich is blanketed in fog, Garmisch—only two hours away—is bathed in glorious sunshine.

When we got off the train, the first thing we heard was che merry sound of sleighbells. In a few minutes we were all piled in comfortable cutters, with lots of fur rugs, and were whizzing off over the snow to the Villa Alpenrose, where we are all staying. We have rooms, and take our breakfast here, but our midday



One of the art students made a pencil sketch and presented it to me. Attached to it was this rhyme :

Little Helen put on skis, And down the hill went toten ; But ran into a German sign, Which read : Baden verboten.

But if La Salle said little, he thought meal we take wherever we happen to be, and our supper we usually bring nome in vision of the venturer, the man who paper bags when we return from our bright reds, vivid greens, and glaring breaks past the commonplace and the day's jaunt. For we are out from morn-yellows-look most effective as splashes orthodox and blazes trails, trails which ing till night, walking over the hills, or

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an alpine form of locomotion that takes time and patience to acquire. It's perfectly astonishing what a lot of things can get in your way when you are shooting swiftly down a snowy incline,-that black dog, for instance, which cavorted joyfully arross the foot of the hill just as I had started down with my two toboggans close together in the proper manner. As soon as I saw that black dog my feet flew off in different directions, my nerve deserted me. and I shot head first into a pile of snow. Do what 1 would, I could not get myself untangled, so I had to remain there till a couple of men came over and yanked me out and put me in an upright position again. Skis are certainly the kinklest things in existence. They seem so contrary sometimes that one is inclined to believe they are actually possessed by evil spiritstheir actions are so full of malice and spite. They absolutely refuse to be guided by reason (at least, so it seems to beginners). In skiing, it is always the unexpected that happens. That is one of the fascinations of the sport. Having practiced the art for four days, I speak with the authority of an expert.

Garmisch and Partenkirchen are two little mountain villages which lie side by side in the valley, and share the same railway station. They are both very popular summer resorts, and in winter are even more popular. Everybody goes there for the winter sports. Each village has its Sportplatz, where the old and the young resort daily for the one purpose of having a good time. Each Sportplatz has a ski course, a rodelbahn (hill for coasting), and an ice-field for skating, hockey-playing, and ice-shooting -the latter something like curling.

In Germany, a hill and a hand-sleigh seem to bring the generations together, just as the game of golf does in Canada. But it certainly did look ridiculous to me at first to see portly, old, whitewhiskered gentlemen festively attired in juvenile clothes, shooting madly down hill on diminutive hand-sleighs, and then dragging the sleighs up hill again with the burning enthusiasm of youth. all And keep on doing it all day, too, with short but frequent intervals for refreshments. Although the grandfathers were so numerous and so actively kiddish, the grandmothers were not so thick-that is, they were thick when it came to waist measures, but there were not so many of them, and they were more sedate, their chief amusement being walking, hillclimbing, and observation. A rodelbahn is a most attractive and picturesque sight. The bright costumes, the swift and incessant movement, makes the hill look like a human kaleidscope. The sporting costumes that I had gazed at in rror in the shop windows of Munich-

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Figures Sculptured in Snow Near the Partenkirchen Winter Sportplatz.

feverish anxiety and self-love. Fort Frontenac was to him but a steppingstone, for already he saw a glorious picture blazoned beyond the veil of the future-a vast continent, busy, prosperous, a vaster if newer France,-and he would bring this about.

But the story of the working out of

him, soon make haste to follow with One never tires in this fine mountain air. We are so ambitious that, we are even considering a ski trip "over the hills and far away," not very far, of course, for we are not proficient enough yet to tackle anything higher than a ten-foot hillock up which we struggle painfully, and down which we go in various unexpected and improper ways. Walking with

of color against a background of snow and pines.

The regulation sporting outfit consists of a woollen sweater, cap, scarf, mittens, and knickers-usually of one color.' The dress of the women is the same as that of the men, except that sometimes a short skirt is worn. However, most of the girls discard the skirt altogether. In skiing it is seldom seen, and while the skirtless costume looks appropriate on the snowy mountain slopes, it does not look so attractive on the village street. The slim women look fairly well, but the fat ones cause considerable mirth-they look like illustrations for comic journals. But the mirth is usually confined to stragglers from other countries. To the Germans, all the Germans look all right. But comfort and freedom of movement are the main considerations in winter sports, and so it is good-bye to the troublesome skirt and its handicaps. Equal freedom for men and women.

But I never imagined that human feet could assume the mammoth proportions that they do in Garmisch. A slim girl of seventeen will have feet the size of a railway porter's. But after you get used to the sight of big feet, small ones look quite inadequate and absurd. We decided to have ours enlarged, so we invested in some thick, woollen stockings, and then hied to a shoemaker's and purchased some huge, heavy-soled shoes of stout leather. At first we could hardly move in them they felt so weighty and clumsy, but we soon got accustomed to them. and now regard them as our best friends.



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Of course, we tried all kinds of sports, and as a consequence are beautifully brocaded with bruises and covered with scratches. But what are a few scratches if you are having a jolly time ! It was reserved for the two art students, however, to create the sensation of the hour on the rodelbahn. They were seized with a desire to make a coasting record, so rented a sleigh-for-two. and walked cheerfully up the hill, full of happy visions of the future. The rodelbahn is steep, and has a very sharp curve near the top. The two art students arrived at that curve so suddenly that they hadn't time to do anything but fall off in a shamefully leggish way, while their sleigh went careering unsteadily down hill by itself. Except the loss of a heel, and the addition of a few more scratches, there was no injury done except to their feelings, which were terribly mangled by the unkind laughter of a lot of people who were looking on.

In Garmisch, and all the country roundabout, the natives always greet the strangers with the salutation, "Gruess Gott !" - which means - God greet you. An elderly English dame, nice but stupid. told me she once spent a summer in Garmisch, and on her daily tramps through the country was always saluted with "Gruess Gott" by any peasants she chanced to meet. She did not know any German, but thought the expression sounded like the exclamation, "Great Scott !" so she went on bowing to them, and saying "Great Scott" to them all summer long.

One night we went to the theater-a very primitive place, just a big hall full of rough, wooden tables, at which the audience sat and drank beer and munched pretzels while the play was going on. Most of the men smoked those long, fancy pipes, always seen in Bavarian pictures. It was a very feathery audience, but the feathers were on the hats of the men. No Bavarian peasant would think of wearing a hat without a feather in it. The theater was heated with stoves, and was fairly warm until the stage curtain went up, when a blast of cold air, apparently straight from the North Pole, made everyone shiver and pull up their wraps. The play was local in subject, and the actors all peasants from the district. They acted remarkably well, but their dialect was so thick and woolly we could understand very little of the dialogue. There was some very spirited and noisy schuhplatten dancing, and that we enjoyed immensely. But the smoke nearly suffocated us. Those Bavarian yard-long pipes make as much smoke as a factory chimney. By the end of the evening the hall was blue with an odoriferous haze, and although we escaped from the haze, the odor still lings to our clothes And after all we DID have a Christmas tree. We had planned to ignore Christmas entirely owing to the melancholy feelings of some of the students who were suffering from that far-from-home-andkindred sort of homesickness that attacks wanderers in foreign climes when the winter holiday season approaches, so we agreed to treat Christmas Eve as plain Wednesday night, and to consider Christmas simply as Thursday. But you never can get ride of that Christmas spirit which hovers around and takes possession of people about the 25th of December. It comes in all sorts of surreptitious ways, and in all kinds of innocent-looking disguises. It entered the Villa Alpenrose in the form of a pine bough which one of the art students had picked up on the mountain path in the alternoon. She said it was so pretty and graceful, and looked so lonesome lying on the snow. So she carried it home and stuck it in the water-pitcher on the washstand-just to prolong its life; and immediately that little bough began to swell with pride to think it was raised to such a lofty social eminence. It perked up in the most astonishing way, and began to take on all the aristocratic airs of a real Christmas-tree. It looked so hopeful and expectant that Olivia took off her neckchain and hung it on a twig. It was that sly Christmas spirit, of course, that prompted her. Then, one suggestion followed another so quickly that in five but it is so subject to it, when the minutes that erstwhile neglected branch had bloomed out into a diminutive Christmas - tree, covered with glistening the identification of tuberculosis germs jewels and gay bits of ribbon, and all the sparkling things that could be fished out of six suit-cases. A gay, red shawl

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six bedroom candles placed around the tree by way of illumination. The sight was so cheerful that everybody was in the gayest of spirits.

The supper-table (we always had our tea in the art students' room, on the top floor, where we could make all the noise we wanted to without disturbing anyone) fairly groaned with delectable "extras" that had been smuggled in; there was even a bottle of wine which came in slyly concealed in a muff-not because it was Christmas. Oh, no; but just because it was Wednesday night. And if you thirst for wine on Wednesday night, why should you deny yourself just because it happens to be Christmas Ever

After supper a veritable Santa Claus with a pack on his back stamped into the room. He was sprinkled with real snow, and had a flowing beard of ab-sorbent cotton. He fished the presents out of his bag with great solemnity, and with each gift he made a speech-short, but appropriate. One girl was given cake of soap with which to keep her reputation clean; another one some toothpowder to polish up her ideas; another a bottle of shoe-polish to make her hair rival the Seven Sutherland Sisters' flowing locks; another a bottle of listerine to preserve her Western accent, etcf

An impromptu vaudeville show followed, each one being required to "do a stunt." The most thrilling number was a hair-raising scene from Carmen, given by the red-headed Irish widow, to the accompaniment of a weird comb orchestra. The stabbing scene-in which the butterknife was plunged into her heart by the jealous rival-was terribly realistic. Her dying shrick as she fell to the floor was blood-curdling.

The melancholy Russian student wakened up from her sad dreams and gave a very spirited imitation of Anna Pavlowa, the celebrated Russian dancer. The applause was so loud and persistent, that she had seven recalls, and finally, in order to quell the disturbance, gave as an encore (with the assistance of sheet) a sensational representation of a wintry blast, the comb orchestra blowing itself, perfectly breathless in a vain effort. to keep up with her swift movements.

The New Public Health.

"The Farmer's Advocate" Bureau of **Public Health Information.** 

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TORONTO

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Conducted by the Institute of Public Health .- (The Public Health Faculty of Western University, London, Ontario.) Established and maintained by the Ontario Provincial Government.

[Questions should be addressed : "New Public Health, care of "The Farmer's Advocate,' London, Ont." Private questions, accompanied by a stamped, salfaddressed envelope, will receive private answers. Medical treatment or diagnosis for individual cases cannot be prescribed.)

## **Pigs and Tuberculosis**

Is the pig the only animal subject to human tuberculosis as well as bovine tuberculosis ? PAT.

Is it because your name is Pat that you are interested in pigs? There are two different ways in which animals may be subject to tuberculosis, one when they contract it naturally in the ordinary course of everyday life; the other when they contract it by artificial inoculation, i. e., taking the germs of tuberculosis or something containing them, and putting them into the animal purposely for experimental purposes. The guineapig (which is no relation to ordinary pigs, of course,) is an animal which seldom, if ever, contracts tuberculosis in nature, germs are artificially inoculated, that it makes one of the best tests we have for we are not sure of, or for the discovery of tuberculous germs in material where they are present in numbers too small was draped over the water-pitcher, and to be found readily with the microscope.

#### FEBRUARY 5, 1914

This is true of the human tuberculosis germ, and also of the bovine tuberculosis germ. The bovine tuberculosis germ inoculated into rabbits, grows also, although rabbits are also very seldom, if ever, affected by it in nature.

Swine are very susceptible to bovine tuberculosis, so much so that the laws in some parts of the country forbid the sale of any skim milk for feeding to swine, unless the milk has been "sterilized," lest some of the milk should contain bovine tubercle germs. (Note .-- We have not yet gone so far as this in proterting human children !)

Horses, dogs, cats, and sheep, seldom show any form of tuberculosis. Chickens and turkeys often do, but the tuberculosis they usually have is called avian, or bird tuberculosis, and is not dangerous to man, although rate and mice contract it also.

Of course, mankind is susceptible to bovine as well as to human tuberculosis. But it must be remembered, first, that bovine tuberculosis, practically speaking, does not greatly affect human adults, but chiefly children under 16, and not many of them. Second, that it seldom produces even in children, tuberculosis of the lungs, but only of glands, bones, and intestines : this means that it can very seldom be passed on from one child to another; finally, that bovine tuberculosis is transmitted to children almost wholly through the use of raw milk from tuberculous cows, not by eating the meat of such animals.

Bovine tuberculosis in the human is quite serious enough, and worth very sectious efforts to get rid of-about five to seven per cenf. of the total tuberculosis in humans comes from cattle. But it is also a very serious source of loss to the farmer, because of the damage to his stock. If it did not affect the human at all, still it would be one of the most serious problems of modern agriculture.

#### RE CISTERN IN CELLAR.

(a)-Please tell us if you think the standing water in an open cistern in a cellar would have any injurious effect on food kept near it. Cistern is cleaned out once a year; would it have a tendency to make cellar too damp? (b)-What do you consider is best home treatment for croup ? By proper precautions, could an attack be prevented in a child that is inclined to take it?

#### BLUESKY.

Yes; an open cistern in a cellar is a source of humidity for the atmosphere of the cellar that would tend to keep the atmosphere saturated with moisture, or, as we ordinarily say, damp.

All germs, including bacteria, yeasts, moulds, etc., grow best where there is enty of moisture and vegetables; meat

## THE FARMER'S ADVOCATE.

for this but keep the patient quiet and absolutely away from all the others until the doctor comes, with antitoxin. The other disease called croup is a spasm of the larynx, giving a hoarse, "brassy" cough, something like a very hoarse fooster crowing. It has a very alarming sound, but seldom results seriously. Remember, it is the "croup" that comes on rather slowly that is likely to be dangerous, i. e., diphtheritic. The "croup" that comes on very suddenly in a healthy, well child, without fever, often is very dreadful in sound and appear ance, but is usually really very trivial, except as it disturbs the child and the family.

Dr. Maria Montessori

The real trouble is to know which disease the patient has; and so the quicker you can get the doctor, the better. »Prevention of diphtheritic croup depends on keeping away from people who have diphtheria. Prevention of the other kind of croup (spasmodic croup) depends on clearing up inflammatory conditions of the nose and throat, since the secretions from these, accumulating near the glottis when the child lies down, probably are the cause of the spasmodic cough. A sharp emetic will usually relieve the attack, by getting rid of this accumulation. The prevention depends chiefly on keeping the nose and throat clear, and in a healthy condition, removal of adenoids if present, and similar H. W. HILL. measures.

## **Hope's** Quiet Hour.

### Thine is the Glory.

Let your light so shine before men. that they may see your good works, and glorify your Father which is in heaven .--St. Matt. v : 16.

111111111111111111111111 As usual, it is my pleasant duty to thank those of our readers who have sent me contributions for the needy. One reader sent \$5.00, and three others contributed \$2.00 each. I thank the givers for their trust in me, and will try to use the money as they would wish. On that very cold day, when the mercury never climbed nearly up to zero, I found a family whose only fuel was coke, which, was bought in 5-cent lots and carried home by the children. Two of the five children had whooping - cough, and the rent swallowed up nearly all the scanty earnings of the father, who-like thousands of other people-could only get a job occasionally. Some of your money fitted in there. Two dollars bought warm overcoat for a boy in another family, who had been coming regularly to S.-S. in very thin and shabby clothes. Two dollars went for food for another family, where sickness and want of employment caused great need. One dollar cheered a poor working-girl who has just passed through a serious operation, and will not be strong enough to earn anything for some time. Probably I shall give her another dollar (or spend it on nourishing food for her). So many people have been out of work this winter that there is no difficulty in finding cases of real need, and I never give moneyat least, not your money-unless I know the people and feel sure it will not be wasted. Your gifts have been appreciated greatly, and the recipients send their thanks. Now, let us consider our text. It is a very searching one, though its familiarity may perhaps dull its effect. This is an age of "good works." Nearly everyone is captivated with the self - evident fact that it is more blessed to give than to receive. Even those who seem to consider the pursuit of riches worthy of a lifetime of effort, yet usually say and think that they want to be rich so that they can "do a great deal of good." On the surface that seems very satisfactory, but out Lord is never satisfied with surface goodness. It is not enough that men should see a Christian's good works. his light must "so" shine that the world will not glorify him, but his Father in heaven.

BIG and little folks soothe the weariness from the work or play of the day, and invite healthful, restful slumber, when the bedtime bath is with Fairy Soap.

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## SOAP FAIRY

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and other things, even the wooden beams of the underpinning may develop growths of these germs, in a damp cellar, where they would not in a dry one. It is not that the germs come from the water and fy up into the cellar, of course-they cannot fly or jump, or even creep very far. The germs are in or on the meat, vegetables, etc., before they go into the cellar at all. In a dry cellar, the surface of the meat or vegetables, etc., would tend to be dry, and the germs would tend not to develop; but with plenty of moisture, the hardier ones, especially the moulds, have a good chance to grow. If the cistern is watertight, a watertight cover over it would keep the cellar dry. Of course, if there is seepage from the cistern, the moisture will probably soak up to the cellar floor and make the cellar damp, even though there be a watertight cover.

It is not wise to have an open cistern in a cellar anyway, for people may fall into it, or throw things into it, or rats and mice may fall into it.

But remember this : smallpox, typhoid fever, diphtheria, etc., do not develop from damp cellars or open cistérns.

The germs of these diseases are not hardy at all, and no amount of moisture in the air would be sufficient to enable them to grow on raw vegetables or meat, etc., at ordinary cellar temperatures. Besides, they could not develop there unless someone took them there first.

#### CROUP.

(b)-Croup is a name given to two very different diseases. Sometimes it means Simply diphtheria of the larynx or upper part of the windpipe, the "Adam's apple," in fact. There is nothing to do

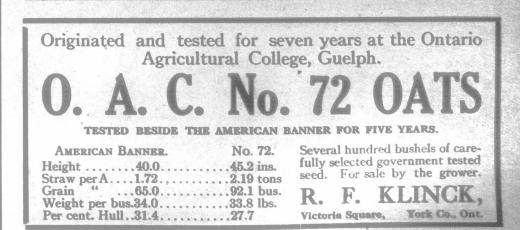
It is said that in China a missionary can speak with greatest effect from the door of a native Christian's house. The neighbors, who have studied his altered life, give God the glory, and are en-

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Did yon ever miss your mangel or turnip crop through seed that did not germinate? If you have had that experience you will appreciate getting fresh seeds. We know our seeds are full of life. We have tested them all. No guess work. Then, again, there is a saving in the price. Do not put of till seeding time, when often you go to the nearest store to get doubtful seed. Surely it is worth your while to sit down and order good live, fresh seeds direct. Our mangels and turnips are put up in 1-bk cotton bags. There is nothing better to be got. Our catalogue describes accurately all our varieties. (If you have misplaced it or did not get one—drop us a line. It will be forthcoming by next mail. It is of interest to everyone who cams a living on a farm.) If you are ordering Clover Seed, Timothy Seed, Grain or Seed Corn, your Mangel and Turnip Seeds can go along with them at 5c. ib. less than prices herewith quoted. MANGELS.—Keith's Prizetaker, Danish Sludstrup (a new intermediate, very fine). Prices for both, postpaid, lb., 35c.; 5 lbs. or over, 30c. MANGELS.—Keith's Yellow Levinthan, Yellow Intermediate, Mammoth Long Red, Giant Half Sugar. Price, postpaid, lb., 36c.; 5 lbs. or over, 25c. MANGELS.—New Century, Scottish Champion, Elephant. Price, postpaid, 30c.; 5 lbs. or over, 35c. per lb. Keith's Prizetaker. Price, postpaid, 35c.; 5 lbs. or over, 30c. MAMMOTH SMOOTH WHITE INTERMEDIATE CAMPT.—Price per lb., 60c., postpaid.

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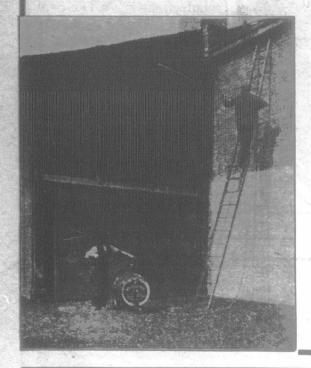
There are countless enemies to your prosperity this season and every other season. Spramotor destroys bugs, parasites, insects, worms, spores, lice, blight, rot, canker, scale, fungi, slugs, scab, caterpillars, beetles, etc.

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All these pests can undo your hardest work and bring your labor to nought. There is one efficient way to fight them, saving to yourself the dollars they would devour, and that is to get a Spramotor and let it do the work of destruction thoroughly in its own economical way.

For purposes of preservation, the Spramotor will whitewash or paint, barns, stable, hen houses, granaries, silos, sheds, and farm buildings generally.

You can spray on fireproof or ordinary paint at half the cost and in one-tenth the time. It means all the difference between having dirty, insanitary outbuildings and clean, healthy, vermin-proof places to house your live stock, chickens and other possessions.





**Spramotor for Weed Extermination** 

Wild mustard can be killed in the growing grain at a cost of only 60 cents an acre-with a Spramotor. You can clear your land of all noxious weeds just as cheaply and turn unproductive tracts into big moneymakers. Here are some figures for you :- A plot of land (sprayed) produced 84 lbs. of crop and 11/2 lbs. of mustard. A plot exactly the same size (unsprayed) produced 16 lbs. of crop and 112 lbs. of mustard. Was the Spramotor worth its cost in this case?

## **Contented Cows Give More Milk**

It is a recognized fact that during fly time, milch cows are liable to be so pestered and tormented by stinging flies and biting insects that the milk yields falls off noticeably. Dairymen have hitherto accepted this situation as something unavoidable but latterly some of them who own Spramotors have taken to using it to give the animals a thorough spraying with fly repellant, not only affording the tortured beasts ease and comfort but causing them to yield fully one-third more milk than before. Surely, if you are without a Spramotor, you realize how much you can benefit from owning one. If you believe that fuller information on your own particular case would be worth while, take advantage of the following:-



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We Make Spramotors in Over 50 Different Styles From the No. 0, Hand Machine at \$6 to the \$350 Gasoline operated outfit. Our wide range of designs and sizes embraces machines for every conceivable purpose, suitable to the spraying needs of the small farm as well as the largest in Canada. FOUNDED 1866

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couraged to put themselves also under His orders.

In one of A. C. Benson's stories, a young clergyman is described, whose sweet charm of panner and desire to please won friends, for him everywhere, Suddenly he awoke to the fact that his sermons were intended to please his hearers rather than to do them real good, that his courtesy and grace of manner and even his kind actions-were inspired largely by a desire to win the approval of the world. His righteousness had been dollg "before men, to be seen of them,"was it really righteousness at all ? . He seemed to himself like a shallow brook, rippling on its easy way, while others admired him as a full and deep river. With all his heart he fought the deadly evil which was secretly eating the heart out of his fair-seeming good works. He had held up his light and allowed it to so shine that men should see his good works and admire him. If even the light was darkness, how great must be the darkness. His outward life went on as before after this startling awakening; he preached diligently, and went in and out among his people; but, instead of admining himself and seeking the approbation of his fellows, he was filled with shame at his own unworthiness. and felt that his offering of service was not pure enough to be laid at the feet of his Master. He desired that God should be glorified, caring less and less about his own glory.

It is not for our sins only that we need to ask forgiveness, but for our cold and self-centered prayers and hymns, for our gifts to the poor and visits to the sick, for our Sunday-school work, and attempts to help forward the spiritual life of others. It is pleasant to give generously-when others are sure to notice the gift. It is far from easy to give money and service, looking for no return of admiration or praise. The light must be allowed to shine before men; they must never have the right to say that Christians are "close." bad-tempered, careless about paying their just debts, or selfish and lazy. For the honor of their Master they must be faithful in small matters and in great, so that others may believe in His righteousness which is the inspiration and the strength of theirs.

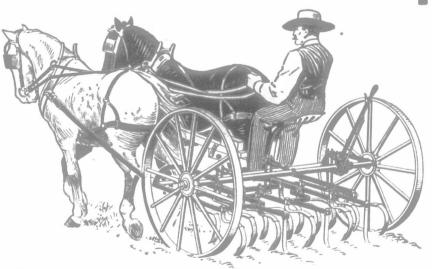
We have a horror of the mocker of God who would daringly put a false coin or a worthless button on the offertory plate. Let us be careful lest we offer Him "works" which are only apparently "good," money which is not really given to Him at all, but only paid out to buy worldly admiration for ourselves, prayers and praises which only come from the lips, and are a mockery of Him Who looks deep into our hearts-counterfeit coin.

SPRAMOTOR **1731 KING STREET** 

# Designed to Get You Bigger Crops Peter Hamilton Cultivator

This capable cultivator is built upon a well-thought-out plan to work up every inch of the ground. The teeth are arranged in separate groups of three rows each, with the front teeth attached to one tooth frame, and the back teeth to another. All are made to cultivate to the same depth and thoroughly break up the soil.

Whiffletrees are attached in line with the sections. No weight falls on the necks of the horses, and the entire machine is extremely light draft for its strength. Sections are made of heavy steel. Teeth are strongly reinforced, and will stand all kinds of rough work. Be sure and see this fine cultivator before buying any other.



SOLD BY ALL JOHN DEERE PLOW COMPANY DEALERS The Peter Hamilton Company, Limited, Peterborough, Ontario

ny-lear of my Book of Common Prayer is written a prayer which I certainly need to use very often. Will you offer it up for me. so that Hope's Quiet Hour may go out each week for the glory of God? This is the prayer:

"Thy glory alone, O God, be the end of all that I say;

Let it shine in every deed, let it kindle the prayers I pray;

Let it burn in my innermost soul, till the shadow of self pass away, And the light of Thy glory, O GOD. be unveiled in the dawning of day."

How can the good works of Christians bring glory to God ? Suppose a professed atheist is selfish and dishonest. no one is surprised; but if a professed Christian is a disgrace to his profession, scoffers make a great fuss about it. Does that not prove that the very name of Christian makes people expect some improvement in the outward life? As a bad Englishman in a foreign country makes the people around him despise and dislike the English people, and a very good Englishman wins renown and glory for his nation: so it is with Christians. The greatest hindrance to missions-at home and abroad-is the careless, ungodly life of many who profess to be Christians. When good works are really shining and beautiful all the way through, with no corroding vanity and selfishness to spoil them, they help forward the cause of Christ marvellously. We are all inspired by beauty and goodness, and it is the perfect self-sacrifice of Love on the Cross which captivates hearts in all lands. But the taint of self in our own hearts makes us suspicious of the motives of others. Because we are too

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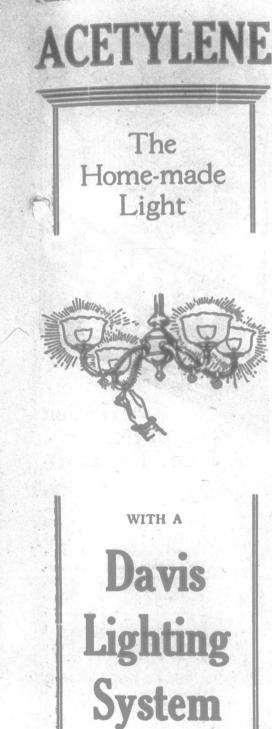
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Beautiful light in every room of the house and in the

## THE FARMER'S ADVOCATE.

often trying to "show off" our good actions, we are apt to think other people are the same. We despise "showing off" when we detect it-or suspect it-in some other philanthropist, do we hate that sin when it lurks hidden in our own gifts and service ?

Dr. Maria Montessori

Sometimes the sight of one's own deformity will stir up a live repentance. A man who had become suddenly rich, was flinging away his opportunities and life in reckless drinking. His wife's pleading was unheeded, but one night he fell helplessly to the ground, and his face was disfigured by bruises. In the morning his wife silently held before him a hand-mirror. and he was horrified at the sight of his wretched, disfigured face. Seeing what he was, and knowing what he might be, filled him with shame; and he began a different kind of life from that day.

There is a story told of a young Japanese in America who came to a Christian minister and asked very earnestly about the beautiful life. He had seen an old carpenter in California living it, he said, one who went about doing good. The minister put a New Testament into his hands and told him to study it. Some time afterwards the young man came back and said : "I have found the heautiful Life-have found JESUS." That carpenter let his light so shine that it lighted a soul to Christ, it was plainly seen to be a reflection of the Light of the World.

Dr. Grenfell was once captain of a football team. After a big match, one day, they were dressing in a saloon parlor when' a man got on a table and began to read a portion of the Bible, making vile comments on what he read. "It was natural enough," says Dr. Grenfell in describing the incident, "to ask the man to refrain till I was no longer forced to be present, to which, sheepishly enough, he assented. Some years after. a poor student who had gone wrong, came-to my great surprise-to ask advice from me. He had been in the saloon, and told me that my feeble protests had gone to his heart." The Doctor goes on to say : "I feel sure that a protest against doubtful things, naturally and modestly made in places where such things would be expected to go unchallenged, does more for Christ than much more voluble ones made in gatherings where everyone is looking out for such things."

It is not easy to speak for Christ in the face of banter and ridicule - especially when one is young and sensitive to the opinion of the world-but that is the kind of witness bound to glorify God and help forward His cause.

A famous composer of music was accustomed to write on the top of his sheet. "In the Name of the Lord

## **Grasshoppers** in Winter

TENS need animal food as much as they need grain. In summer they forage. Grasshoppers, bugs, worms and insects are a big part of their food, and the result is eggs in plenty.

To get eggs in winter, the successful poultryman gives his laying hens the same food as they get on free range in summer.

True, he cannot get grasshop-But he can supply the pers. same food value in the shape of meat and bone.

Government Bulletins, incubator catalogues—in fact all poultry au-thorities—preach emphatically that a good egg yield cannot be ob-tained without meat and bone.

The question now is for every farmer, every poultryman and every amateur poultry raiser, to get good meat and good bone at a lair price."

You could not feed cleaner meat than BLACK VICTOR Meat Scrap, than BLACK VICTOR Meat Scrap, which is made from good healthy meat. Water and waste weight are dried out, leaving solid meat food with a small portion of bone-the very best egg-producing ration. BLACK VICTOR Meat Scrap is thus worth far more than the same weight of fresh meat. At \$4.00 for a full hundred-weight, it is a most economical food. BLACK VICTOR Ground Rose is

BLACK VICTOR Ground Bone is fresh bone ground in three sizes an upplied at \$2.50 per hundred-weight.

Be sure to have our complete price list of BLACK VICTOR Mean Foods, which include: Mean Scrap, Mean Meal, Chicken Scrap, Poultry

Bone, Bone Meal, Blood Meal, Blood Flour, Red Blood and Bone Tonic.

These economical Meat Foods are made by Matthews-Blackwell Lim-ited, formerly the Park Blackwell Co., whose meat products have been known for years from one end of Canada to the other.

Feed Meat and Bone while Eggs are High.

If you cannot buy the BLACK VIC-TOR Poultry Foods at your local stores, send direct to us, mention-ing the name of your Feed Man or Grocer and we will deliver your order at the regular retail price Charges Prepaid.

Order before the best egg season is past.



AN EARLY SPRING

HAVE IT INDEPENDENT OF THE WEATHER

You can have flowers or fresh vegetables six weeks ahead of your neighbor, if you have a well-made hot bed, fitted with our superior hot bed sash. Now is the best time to place your order.

Our hot bed , sash are built to last. All the joints are tight-fitting, blindmortised and white-leaded before being put together. A half-inch oak rod runs through the bars and into the stiles. A metal pin is driven into each of the bars and stiles through the rod. In this way each bar is held in proper place and prevented from sagging.

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barns by the pull of a chain or press of a button.

Write for catalogue and literature telling all about this wonderful system of lighting.



the composition was completed, he wrote below, "Thanks be to the Lord." If each work of ours were really consecrated in that fashion, how beautiful our lives would be. When Morse had, through years of toil and hardship, perfected his telegraph, the first official message which he sent flying over the wire was: "What hath God wrought !" He did not claim the glory of the great discovery-the power and the glory were God's alone.

John the Baptist was given every opportunity to glorify himself, but he declared himself to be only a "voice," bearing witness to One whose shoe he was not worthy to untie. So every faithful preacher is simply declaring God's message; and every religious writer is a stenographer of God, whose business is to faithfully transcribe His words. Let us join in the great anthem: "Blessing, and honor, and glory, and power, be unto Him that sitteth upon the Throne, and unto the Lamb for ever and ever."

DORA FARNCOMB.

#### A Thought From Emerson.

"The things we now esteem fixed shall, one by one, detach themselves, like ripe fruit, from our experience, and fall. The wind shall blow them none knows whither. The landscape, the figures, Boston, London, are facts as fugitive as any institution past, or any whiff of mist or smoke, and so is society, and so is the world. The soul looketh steadily forward, creating a world before her, leaving world's behind her. . . . The soul knows only the soul; the web of events is the flowing robe in which she is clothed."-The Over-Soul.



Sizes: 3 ft. 2 ins. wide by 6 ft. long, for 4 rows of 8-in. glass, \$1.20; 3 ft. wide by 6 feet long, for 3 rows of 10-in. glass,

The above prices are for clear red cypress. When ordering, kindly state whether for butted or lapped glass.

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With a Sanitary Odorless Closet "Not a Luxury, But a Necessity." The very thing for YOUR home. People have been looking for years for some method that would discard for all the time the barbarthat would discard for all the time the barbar-ous out-of-doors closet. The improved SANI-TARY Odorless meets the demand in every way. It is cheap, compared to value received, easy to install, lasts a life time and prevents sickness. The out-of-doors Closet spells disease and death—the SANITARY Odorless stands for vigorous health, comfort and convenience. Give this Closet a trial in YOUR home. The women folks will appreciate it more than you will ever know.

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Dealers WANTED

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The very active interest taken by farmers throughout the Dominion in better methods of fertilizing, has created an astonishing demand for Davies Special Mixed Fertilizers.

As we want to supply this demand through dealers, we are offering an attractive proposition to reliable parties in Ontario, Quebec and the Maritime Provinces, who can handle quantities of 20 tons (minimum carloads) or more. This proposition is open to anyone, whether regular fertilizer dealars or not.

It offers a very profitable side line for Seedmen, Implement Dealers, Flour and Feed Men, Millers and progressive Farmers, in districts where we are not at present represented.

# SPECIAL MIXED RTILIZERS

have an extremely good performance record, having produced remarkable results for many farmers They are prepared by using only the highest quality materials and a mixed under the supervision of experts. They are put up in 125 lb. bags (barrels if desired).

Goods are guaranteed to be in perfect condition.

The

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We especially recommend our factory mixed high-grade fertilizers analysing from 6 to 10% POTASH.

This is a splendid opportunity. Write us immediately about it before all the remaining territory is taken up.

West Toronto, Ont.



The farm is sold. Everything offered to be sold without reserve. 56 head of cattle, 8 brood sows, 14 young pigs, 150 hens, team of horses, 7 and 8 years, weigh 1200; one high-class hackney filly, one hackney gelding, rising years. The cattle consist of the second-prize herd in the Western Ontario Dairy Competition, and others carefully selected and of the best All grade Holsteins except 6 head, and all supposed in calf. TERMS: Eight months' credit on approved joint notes; 4% discount for cash. On Traction line, near Lambeth Village, 6 miles southwest of London. Stop 18.

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[Rules for correspondence is this and other De-partments: (1) Kindly write on one side of paper usly. (2) Always send name and address with communications. If pen-name is also given, the ran narce will not be published. (3) When em-closing a letter to be forwarded to anyone, place it is stamped envelope ready to be sent on. (4) Allow one month in this depart sent for answers be questions to anone. te questions to appear.]

## A Chinese Helen Keller.

The "Chinese Helen Keller" she has been called, this little Wang Fung-Ying, in far-away Chefoo. Perhaps the claim suggests too much, for although the progress of Wang Fung-Ying has been marvellous. Helen Keller is possessed of a genius all her own; the like of her is not to be expected more than once in many conturies. Nevertheless, Wang Fung-Ying has already surmounted almost insuperable difficulties, and she is still young; a long lifetime of opportunity lies before her.



Wang Fung-Ling. The "Chinese Helen Keller," with her teacher, Miss Carter.

As you may have heard smallpox is one of the scourges of China, a terrible scourge, to be dreaded not only for its distress and danger at the time of the malady, but also for its possible aftereffects in case the patient recovers. Perhaps greatly due to it is the fact that in China at the present day there are 400,000 deaf mutes, and among those a pitiful few that are not only deaf mutes, but blind deaf mutes.

Wang Fung-Ying was but little than a babe when the dread disease laid its sealing finger on lips, eyes and ears, and so, like Helen Keller, she was growing up in absolute ignorance, in a black, silent world, whose thought we, possessed of our faculties, can scarcely even imagine. Examine your thought. Is it not chiefly dependent upon mind - pictures -pictures of something seen, or heard ? Imagine, then, what it would be to have practically one's whole thinking connected with the finger-tips, those finger-tips that must become, oh, so sensitive. Like Helen Keller, then, the little Chinese girl went about, ever touching and feeling, and like her also, she gave way often to violent outbursts of "temper"yet not temper; rather as has been said, "Nature fighting for expression." Then, into the world of the child came a new influence, an influence that was to give her intercourse with the thought of the world, that was to build up for her thought itself, the greatest light that humankind can know. During the years that she had been struggling in her dark world, there had been' working towards her in far-away New York the good spirit who was to give her, through those same sensitive fingers, ears and sight, and at last that good spirit came to China. It (shall we say?) was known as Miss A. E. Carter. Miss Carter began her public life as a nurse in the Bellevue Hospital, New York City, but subsequently served for three years as one of the health inspectors of the public schools in the big metropolis. Eventually the call came to her to go to the Orient, and so she became a teacher at the Chefoo School for the Deaf. Even this meant a staggering task. She had not only to learn the Chinese



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WHETHER you love the dear old Marigolds, Heliotrope, Nasturtiums and Petunias-the gorgeous Poppys and Asters-the manyhued Sweet Peas-the heavyscented Nicotiana - or the huge and picturesque Ricinus you'll find in Ewing's Catalogue the particular varieties which will make your flower garden a real satisfaction.

Ewing's Reliable Flower Seeds have been delighting beauty lovers for more than forty years. Write for Illustrated Catalogue to-day, and if your Dealer hasn't Ewing's Seeds, order from

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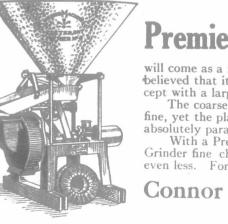
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THE NO. 8 Grain Premier Grinder

will come as a revelation to the man who has always believed that it is not possible to do fine chopping except with a large grinder and a big engine.

The coarse chop is all ground, the fine chop is all fine, yet the plates never touch, as they are flat and absolutely parallel. With a Premier Air-Cooled Engine and Premier

Grinder fine chop can be made for 1c. a bushel, or even less. For particulars, write

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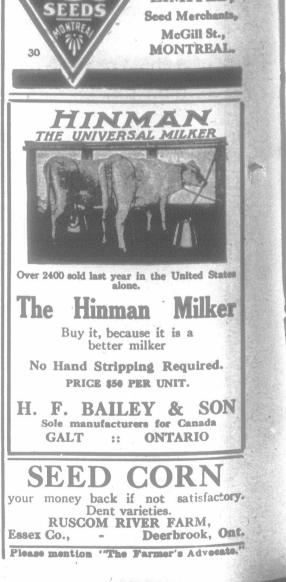
## **Registered Seed Potatoes**

My Registered Green Mts. yielded last season over 600 bus. per acre. Write me for price list of other varieties.

C. Fred Fawcett, Upper Sackville, N.B.

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to be absolutely as represented, or your money will be refunded upon the return of incubator in good order. The best possible evidence of their effici-ency is contained in the fact that Canadian Agricultural Colleges are successfully using Prairie State Incubators in their practi-cal and demonstrative work. Write them for their results. Hundreds of others, both beginners and experts, have told us of the excellent results they obtained in hatching strong, healthy chicks that have lived.

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It's cheaper to raise colls than to buy horses. But it's costly if you lose the colts. Keep a bottle of Kendall's Spavin Cure handy. For thirty-five years has proved it the safe, reliable remedy for spavin, splint, curb, ring-bone, bony growths and lameness from many causes.

# Kendall's Spavin Cure

is sold by druggists everywhere at \$1 a bottle, 6 bottles for \$5. Get a free copy of our book "A Treatise on the Horse" at your druggist's of write us. **Br. B. J. KENDALL CO., Enosburg Falls, Vi-**YOU can become a competent chauffour in a very short time by taking our thorough and complete Auto Course. Our instructors are specialists in their line and our equipment is most complete. Illustrated booklet will be sent free on request. Y.M.C.A. AUTO SCHOOL 281 Broadview Ave. Toronto, Ont. Perfect hearing is now bei stored in every condition of desti-ness or defective hearing from causes such as Catarrhal Desf-ness, Relaxed or Sunken Drums, Thickened Drums, Rearing and Hissing Sounds, Perforated, Wholly or Partially Destroyed Drums, Discharge from Ears, etc. Wilson Common-Sense Ear Drums Wilson Common-Sense Ear Lirums "Little Wireless Phones for the Ears" require no medicine but effectively replace what is lacking or detective in the natural car drums. They are simple devices, which the wearer easily fits into the cars where they are invisible. Soft, safe and comfortable. Write today for our 168 page FREE book on DEAF-NESS, giving you full particulars and testimorials. WILSON EAR DRUM CO. Incorporated Inter-Southern Bidg LOUISVILLE, KY

## THE FARMER'S ADVOCATE.

anguage, with its innumerable characters, but also to learn the language by the Bell Visible Speech Symbols. Later, when the little blind deaf mute came into her charge, it was necessary to master the Braille or raised-letter system, but the work of teaching the child was simplified somewhat by the assistance of Mrs. Sen, a graduate of the Teng Chow Tu Girls' High School.

Dr. Maria Montessori

As with Helen Keller, the first word chosen to be taught to little Wang Fung-Ying by the manual alphabet was d-o-l-l, and naturally the same difficulty was encountered, that of making the child understand that the movements on her fingers signified the dolly put into her arms so often. Indeed, in the case of the little Chinese girl, three months' work on the part of Miss Carter and Mrs. Sen were required to convey the idea.

At the end of that time light came. and henceforth the task was easier. By the end of ten months the girl had mastered the Braille system of raised letters, and had become able to communicate with those about her. Her fits of temper; too, became fewer and fewer as the apparent necessity for them vanished; Wang Fung-Ying had become a reasonable human being.

Wang Fung-Ying's teaching has been carried on in a little one-story Chinese building back of Chefoo, and a lady traveller in China has written for the Sunday - School Times an interesting account of a visit to her there.

When the visitor arrived the girl was brought to the room. Gropingly she reached Miss Carter's side, and at once held up her hand to be told what was wanted of her. "Go into the garden and pick some flowers for the visitor," she was told, and instantly she went out, returning presently with a large bouquet. After coming in she discovered that she had lost her hair-ribbon, and wrote in Braille on her slate, "Lost my hairstring among the flowers."

For some time Miss Carter has been teaching her to speak, the system followed being that used with Helen Keller, placing her fingers upon the larynx, lips, nose, and sometimes the tongue of the teacher. Already she can speak some words and sentences. She takes a great interest in all that goes on at the school, and, needless to say, finds her greatest happiness in sitting by her teacher, whom she importunes at all times, "Teach me." With but half of the application and concentration of these wonderful, blind, deaf girls, what could not we, who are possessed of all our faculties accomplish ?

Mrs G. and her Methods. Mrs. G.'s husband has just bought

## SALE --- SMAL AT "JANEFIELD FARM." GUELPH JERSEY CATTLE AND HORSES

241

The undersigned has received instructions from the proprietor, W. J. BEATY, to sell by public auction that splendid small farm of Fifteen Acres, being parts of Lots 6, 7 and 8, Con. C., Guelph Township, and part of "Janefield Farm," exactly one mile from street car and O.A.C., and 11/2 miles from Guelph.

## On Friday, 20th of February, At 1.30 o'clock Sharp

On the premises is a seven-room house, with sun-room and good cellar, the whole newly painted and in first-class condition. A row of spruce and black walnut trees surround the field adjacent to house, which fronts on College Avenue. The land is in a very high state of cultivation, and suitable for market gardening or intensive farming. There are 30 good young apple trees on property, which are very prolific. This property is one of the best that will be offered, and is suitable-

This property is one of the best that will be offered, and is suitable-either for residential purposes or market gardening. Two years ago, on four acres of this property, \$650 worth of roots and vegetables were sold, and the land has always been noted for its heavy yields. The position is exceptional, and for anyone looking for an ideal place to settle, and have all the advantages of country and city, as well as being close to the O.A.C. and Macdonald College. This in itself is worth a great deal to anyone who wishes educational advantages. The reason for offering this property is that the owner has a sufficiently

The reason for offering this property is that the owner has a sufficiently large farm left, and wishes to curtail his working expenses. Sufficient good grade lumber to build a good size barn will be allowed.

TERMS AND CONDITIONS will be made known when the property is offered — There will be sold at the same time and place, the following:

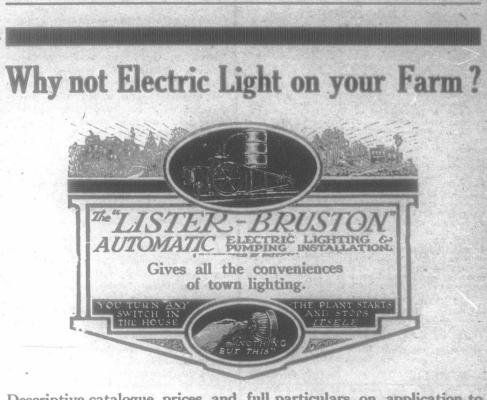
#### COWS AND HEIFERS

20 head Jersey Cattle, including 10 cows fresh and due to calve, 2 twoyear-old Heifers due in April: 8 one-year-old Heifers. The cows have all milking records, nothing having been kept except what would produce, and nothing more need be added than the fact, that from the sale of twelve cows \$30 per week has been made from the sale of cream. cows are all in calf to Brampton Merger, and the heifers are good found-ation stock. All the cattle are from the best strains, and have been selected from such stocks as J. B. Cowans and Mr. Clark, Norval, and Henry Glendinning, Manilla. This is a good chance to get a good cow, and the record of each cow will be given. The owner is retaining some pedigree cows, but all offered are for unreserved sale.

## HORSES

6 horses: 2 three-year-old colts in hands of breaker. A good matched team, 1 two-year-old Clyde, 2 one-year-old colts.

TERMS-10 months' credit or 6 per cent. per annum off for cash. CHAS. M. CRAWLEY, AUCTIONEER, GUELPH P.O., R.R. No. 6





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ARM, rook, Ont. Advocate."

Imported CLYDESDALES Two stallions rising four. Write or come and see. Surradale Farm, Staffa, R. R. No. 1.

new piece of property. Indeed, he is one of the men who will always be land poor. No sooner has he managed to get one lot or one farm paid for, than he has eyes on another. As a conse quence, when he dies, someone will be land rich-that boy and girl who are growing up now, minus all other advantages, in order that the land may be paid for-and very possibly the hardgained land will fly to make possible automobiles and all sorts of luxuries. Mrs. G. does not at all object to the buying of new properties. Indeed, she and her husband are very much alike in this matter, and it is very pleasing to

her to think that when she and James have gone, Kathleen and Leonard will be left with plenty.

In the meantime, however, those eternal payments must be met, and so there must be pinching;-and what more natural than that the pinching must be done where it will not show? Appearances must be kept up for the sake of the respectability of the family. The close level of the richest in the neighborhood must be maintained; it is quite necessary to g a new rubber-tired buggy-that old one is so shabby; the drawing - room simply must have a new hardwood floor; and so the story goes.

But-well, Leonard simply can't have that course at the O. A. C. that he is craving. It can't be afforded because of those payments; and anyhow he will have plenty of land when all is paid for. Kathleen cannot go to High School, either; it costs a good deal to keep a girl in town nowadays. But, well, she'll be marrying some day, and Mrs. G. fervently hopes that "he" will be a rich man. At all events, Kathleen will have Descriptive catalogue, prices and full particulars on application to

R. A. LISTER & CO., LIMITED 58-60 Stewart Street TORONTO, ONTARIO

#### Walking Standard 100 Plows

Suitable for all soils in Eastern Canada and British Columbia. No. 33, No. 30, No. 21, No. 8, No. 7, No. 5, No. 4, No. 2. The famous "Essex Centre" line to be sold at factory price

## \$10 each

Send immediately if you are to be a lucky one. Your money back if not entirely satisfactory. State kind of soil your farm is, so that we may fill the order to suit the land.

Wheels extra, 75c. each. Skimmers extra, 75c. each. Erie Iron Works, Limited, St. Thomas, Ont. 242



ed advertisements will be inserted un Condensed advertisements will be inserted under this heading at three cents per word each insertion Each initial counts for one word and figures for two words. Names and addresses are counted Cash must always accompany the order for any advertisement under this heading. Parties having good pure-bred poultry and eggs for sale will find plenty of customers by using our advertising col-umns. No advertisements inserted for less than 80 cents

BARRED Rocks, R. I. Reds, White Wyando: tes, S. C. Brown and White Leghorns. Wm. Bunn, Denfield, Ont.

BRONZE Turkeys, heavy toms and hens. G. E. Nixon, R. 3, Ilderton, Ont.

CARLUKE Poultry Yards highest class exhib-tion Barred Rocks, winners again at Guelph, Show the Premier Show of Canada; also at Toronto Some choice cockerels. Either cockerel or pullet matings for sale. Write for prices. We have the goods. G. Morton & Sons, R. R. No. 4, Box 130, Hamilton, Out.

EMBDEN Gander, Rouen Drake, Light Brahma cockerels. A. Stevens, Lambeth, Ont.

Cockerels. A. Stevens, Lambeth, Unt.
 FOR SALE—A few more pairs of choice Pearl Guinea fowl. J. E. Malyon, Uxbridge, Ont.
 FOR SALE—Some of my winners in Embden.
 FOR SALE—Some of my winners in Embden.
 FOR SALE. Some of my winners in Embden.
 FOR SALE - Do Barred Plymouth Rock cockerels of the famous Pittsfield heavy laying and early maturing stock. Price \$2, each, A. Flawn.
 ISS Wharncliffe Road, London, Ont.

FUR SALE—Mammoth Bronse turkeys; prise winners at the Western Fair, also Guelph Angus Beattle, Wilton Grove, Ont. R. No. 1. FUR SALE-A tew choice Rose Comb Rhode Island Red cockerels, from my best laying strain, two to five dollars each. Howard Smith, . Ont

FORTY-FIVE varieties fancy poultry. Hand-some catalogue free, S. A. Hummel, Box 23. Freeport, Illinda.

GUINEA-PIGS for sale. A variety of colours-A dollar fifty a pair up. L. R. Boys, Fergus Ontat

MAMMOTH Bronze Turkeys for sale, winners M at the Guelph Winter Fair. Also Embden Geese, A. McDougal & Son, Milton, Ont. PURE-BKED Pekin ducks, \$2.00 each; Toulouse geese, \$3.00 each; Pearl Guineas, \$1.50 a pair. L. Mullock, Waterdown, Ont.

SINGLE Comb White Leghorn and Barred Rock cockerels \$2 each, satisfaction guaranteed. Bert Warder, Spry, Ont.

WHITE Wyandotte cockerels from heavy laying strain, \$3 each, two for \$5. Write quick, They won't last long. W. B. Powell, Galt, Ont.

## Have Your Chickens Got The Roup?

Ine Koup?
Discovered by prominent London poultry breeder.
C. & W. Liquid Roup Remedy, a positive cure for Roup. Canker, Chickenpox and kindred diseases. The discoverer being keenly interested in the success of the poultry community in general has decided to place his remedy at the disposal of all who care to give it a trial. Read these letters from well known poultry breeders:
Jan. 30th, 1914.—Oliver Bong of E. & O. Bong, breeders of all varieties of Bantams, Base Line, London, Ont. writes: "We have used your C & W Liquid Roup Remedy with great success on our Bantams in case of Roup, Canker and Chickenpox. We would not be without it, as there is nothing else that we have ever been able to get that will cure them as quickly or as effectively."
Jan. 16th, 1914.—F. C. Dulmage, Former Secy.
London Poultry and Pet Stock Association. London, Ont. wrote us the following letter: "I have used with splendid success C. & W. Liquid Roup Remedy manufactured by The Specialty Agency

## THE FARMER'S ADVOCATE.

a nice "dot" some day, when the land has been paid for and redistributed. Mrs. G. and her husband do not see in the least the need for satisfying the craving to "know for knowing's sake," the need for a broader intellectual life that just now has possession of both Kathleen and Leonard, nor could anyone explain it to people of their type. Life to them means simply possession, and bye-and-bye Kathleen and Leonard will bow to their interpretation of it, and miss forever the glimpses and delights of the far country of exploration and dream.

If you go to Mrs. G.'s to tea, you see no evidence of scrimping anywhere. There are chickens and croquettes, salad and biscuits, trifle, and cake, and cream cheese, and olives, and dear knows what not. But the kewpies peeping in at the window when no guest is about, see a very different sort of living. "We can cut down on the table expenses," reasons Mrs. G. "No one will be the wiser." So the eggs are all sold, and the beef (all but the merest trifle), and there is never cheese, and the porridge appears with skimmed milk as an accompaniment because all the cream must go to the creamery.

Poor Mrs. G.! - Because James and Kathleen and Leonard look fairly well, she has never a qualm of conscience. She does not realize that constitutions may be slowly undermined by just such lack of nutritious food, nor that illness may be on the way because of it, illness ever so hard to throw off because of the poor constitution which has to withstand it. She thinks she is "economizing,"-but what short-sighted economy !

#### . . . .

It would do Mrs. G. good if someone were to give her a few lessons,-lessons to teach her that the proteid foods, meat, fish, eggs, cheese, beans, peas, etc., are absolutely necessary for growth and repair of these bodies of ours which are always wearing out; that the carbohydrate foods and fats - potatoes, rice, cereals, tapioca, sago, nuts, etc., are needed for heat and energy; the vegetable foods because of their bulk and their mineral constituents, and that it pays to have a garden and orchard in which to grow cabbage, turnips, beets, parsnips, celery, spinach, artichokes, tomatoes, squash, cucumbers, apples, currants, plums, and grapes.

A further lesson would teach her that this list does not mean extravagance, because but one food from each class, at each meal, will give a fair balance,-a proteid, a carbohydrate, a vegetable, a fruit. Soon she would come to realize that a mixed diet is the ideal to keep

Sell Your Skimmed Milk Convert it into dollars by feeding it to your

FOUNDED 1866

FRAR

calves, along with a small portion of Gardiner's **Calf Meal**, the perfect cream substitute. You will save money, and make money three times a day. Better begin at once.

## **GARDINER'S** CALF MEAL The Perfect Cream Substitute

is now being discovered by new users every day, who declare it to be a good business proposition, anyway, it is figured.

It is a perfect substitute for cream or milk. You can raise just as good calves on Gardiner's Calf, Meal as you can on whole milk, but at a great saving. You owe it to your bank account to take advantage NOW of the special offer below.

## **Special Offer !**

We will ship to any address in Old Ontario one of our big hundred-pound sacks of Gardiner's Calf Meal, freight prepaid, for \$3.75.

Send to-day. This offer may not appear again.

GARDINER BROS., Sarnia, Ont.

A live representative wanted in each locality.



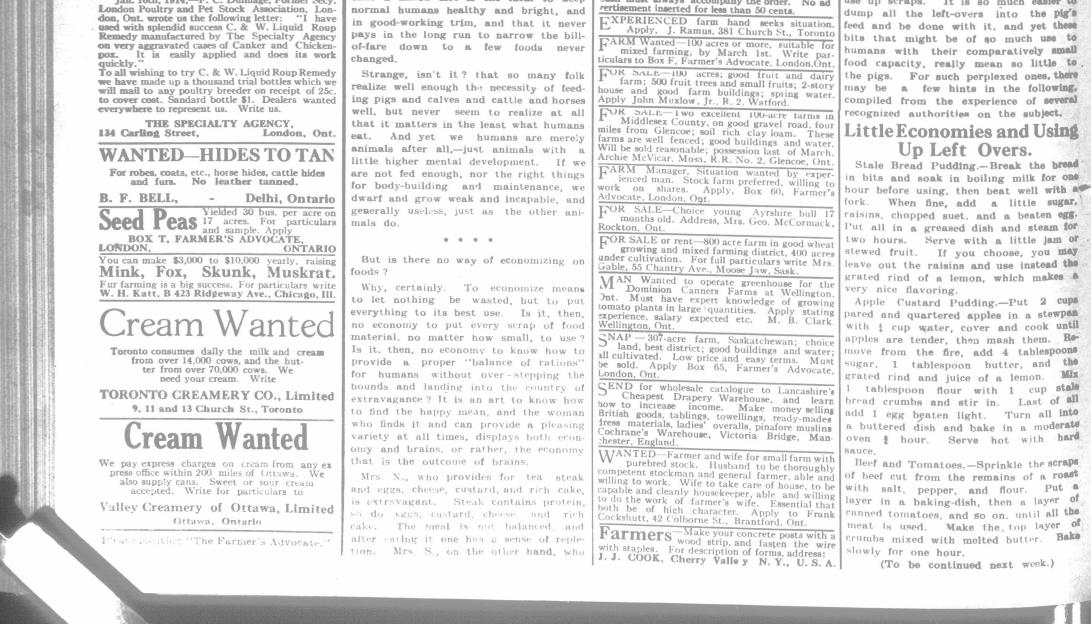
Advertisements will be inserted under this head

Advertisements will be inserted under this head ng, such as Farm Properties, Help and Situations Wanted and Pet Stock. TERMS—Three cents per word each insertion dach initial counts for one word and figures for .wo words. Names and addresses are counted lash must always accompany the order. No ad rertisement inserted for less than 50 cents vertisement inserted for less than 50 cents.

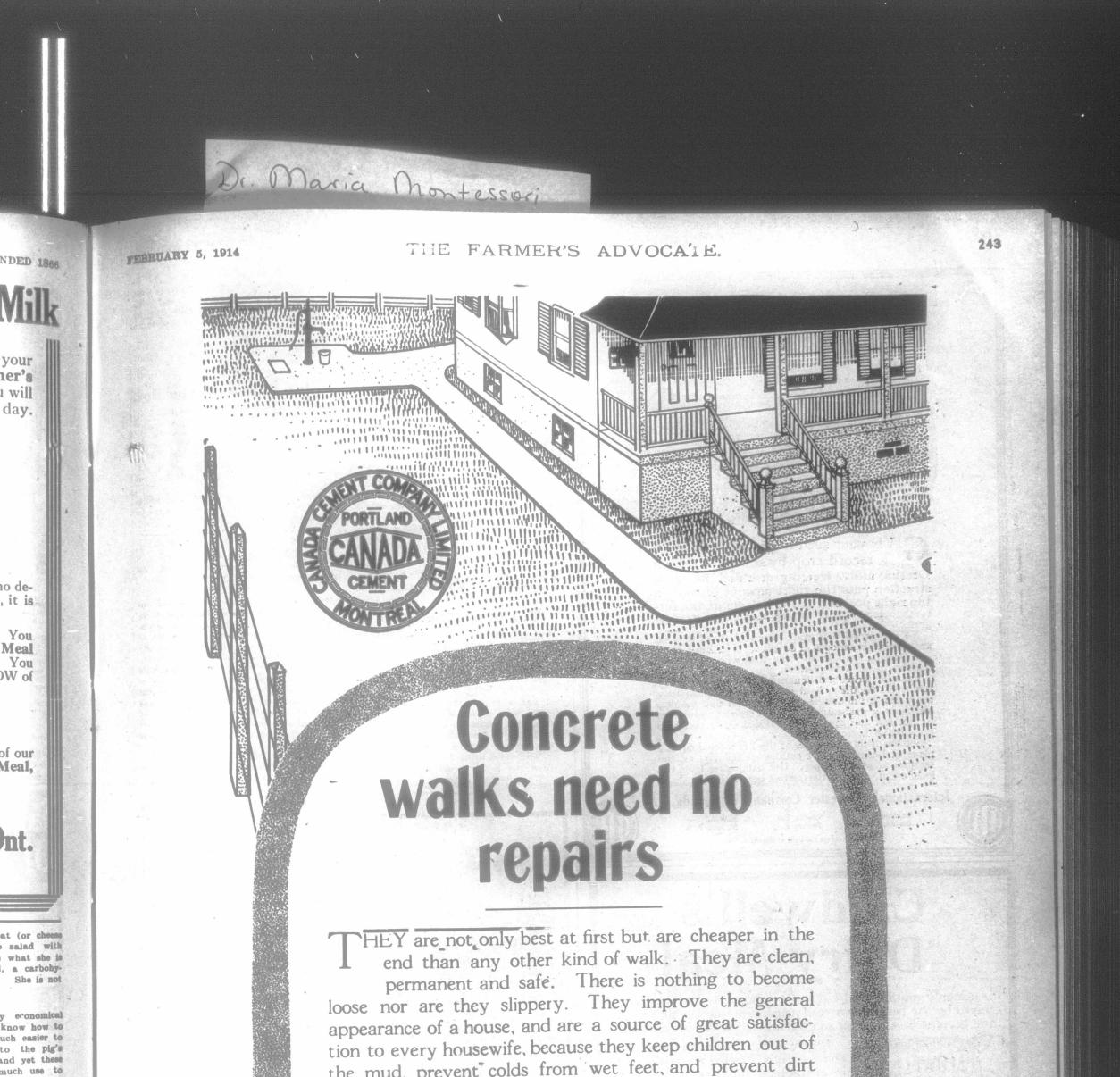
sets her table with cold meat (or chee salad and celery), a potato salad with nuts, cake and fruit, knows what she is doing,-you see, a proteid, a carbohydrate, a fat, and a mineral. She is not extravagant; she is wise.

Often, however, the really economical woman finds it a worry to know how to use up scraps. It is so much easier to dump all the left-overs into the pig's

. . . .



oven & hour. Serve hot with hard Beef and Tomatoes.-Sprinkle the scraps of beef cut from the remains of a roast



the mud, prevent colds from wet feet, and prevent dirt from being "tracked in" on floors and carpets. Equally important is the fact that they never wear out and never need repairs.

This free book, "What the Farmer Can Do with Concrete," tells all about concrete walks and how to build them, and a score" of other things needed on every farm. Write for it to-day.

# Farmer's Information Bureau Canada Cement Co. Limited

559 Herald Building,

ns of a roast our. Put a n a layer of , until all the top layer of butter. Bake

atively small so little to

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ak the bread

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little jam or se, you may e instead the

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ad cook until th them. Retablespoons er, and the lemon. Mix 1 cup stale Last of all

Turn all into

n a moderate with hard kle the scraps -

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t week.)

# **Deering Drills**

IVE your seed a chance to produce

244

a record crop by sowing it with a Deering drill. Deering disk and hoe construction puts the right amount of seed in the right position at the bottom of the furrow, to insure your getting a full even stand of grain.

No matter whether your ground is hard or soft, gravel or clay, smooth or rough, level or hilly, there is a Deering drill in the line that will plant your seed as it should be planted.

Examine Deering drill construction and the many features. Note the light draft, the large capacity grain boxes, the double-run force feed that handles all kinds of grain and seed, the ease of regulation to suit soil and seed — and a dozen other points to grow enthusiastic over.

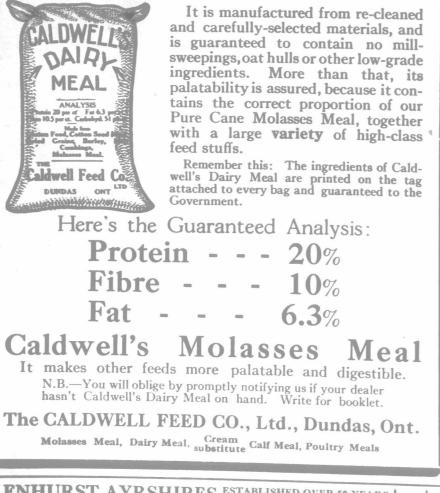
See the drills themselves at the I H C local agent's place of business. Our catalogues tell you all the features of all the types. Get catalogues from the local agent, or write the nearest branch house.

International Harvester Company of Canada, Ltd nilton, Out. London, Ont. Quebec, P. O. Hentreal, Que. St. John, H. B.

These machines are built at Hamilton, Out.

# **Caldwell's Dairy Meal**

is not only another Caldwell product, but a feed scientifically mixed by the best known feed experts in the Dominion, for the purpose of supplying an existing and insistent demand.



## THE FARMER'S ADVOCATE.

## **On Mount Pilatus.**

By Helena Coleman.

stood on Mount Pilatus, freshly crowned

In all the splendor of new-fallen snow, And heard the bells of myriad flocks below.

valleys with mysterious Filling the sound :

cadences, that lingering Enchanting wound

Among the dreaming hills, elusive, slow,

And bearing in the liquid ebb and flow.

An elemental music, faint, profound.

And I have wondered if the joy and pain, The happy laughter and the anguished sighs,

So strangely blended in our lives, attain Consistency and sweetness as they rise, And, woven to one pure, ethereal strain, Make harmony beyond the tranquil skies.

## **The Beaver Circle**

**Our Senior Beavers.** [For all pupils from Senior Third to Continuation Classes, inclusive.]

#### The Friend I Met.

By Nellie M. Coye. I met a friend, the other day,-He wore a cap of red; Yet as I passed he did not deign To lift it from his head. Instead, he gave a saucy quank, With head atilt, for he Was just a downy woodpecker A-tapping on a tree.



FOUNDED 1866

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its nest in old stumps and trunks of trees. The female lays four to six eggs. The woodpecker is a very noisy and quarrelsome bird, but this may be overlooked for the amount of insects he destroys.

Have you a bird-book, Gladys? You would enjoy Neltje Blanchan's "Bird Neighbors."

## Senior Beavers Letter Box.

Dear Puck,-I want to thank you very much for the five dollars you sent me as first prize in the Garden Competition. I am afraid I shall not be able to compete next summer, as I am attend. ing High School away from home, and when I return in June it will be too late to plant my flowers.

Please give my heartiest congratule. tions to the Beavers who won prizes is the competition.

#### Your little Beaver. DOROTHY NEWTON.

Cloverdale Farm, Plaisance, Que. Don't forget us. Dorothy. Good Inek to you in your new work.

Dear Puck and Beavers,--My other lester went in the waste-paper backet, m I thought I would try my luck again I suppose all the Beavers got a lot of Christmas presents. I know I did. My sister and I go to school nearly every day, and like to go. Our teacher's name is Miss Patterson. How many of the Beavers like reading ? I have just finished reading "Little Women," and am going to start "Elsie Dinsmore." will stop now and give the others more room. So good-bye, from your little Beaver friend,

HELEN J. McDOWELL. Woodstock, Ont., R. R. No. 4. (Age 10, Jr. IV. Class.)

Dear Puck and Beavers,-I am going to write to you again. I suppose you see that my address is changed. we had the free mail route and that changed it. I love to read, and my favorite books are : "Freckles," "The Girl of the Limberlost," but I like "The Basket of Flowers' and the "Christmas Carol" very well. I like the books on nature best, especially those on moths and butterflies, and I like to catch them too. I do not think it is cruel becau as "The Girl of the Limberlost" said. they only live a few days anyway, and people might just as well use their beauty as not for they are certainly lovely. My brother and I caught a casefull of insects I think they are very nice (even if I do say it myself). have one of the rarest mothe in America, which is perfect, besides other rare ones, and I expect to catch them in the large swamp which is near our place, where there are some lovely ones

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GLENHURST AYRSHIRES ESTABLISHED OVER 50 YEARS AGO, and ever since kept up to a wigh standard. We can supply females of all ages and young bulls, the result of a life-time's intelligent breeding; 45 head to select from. Let me know your wants.

JAMES BENNING, WILLIAMSTOWN P.O.

Summerstown Sta., Glengarry

## Woodpeckers. Is any one of these of the "red-headed"

species ?

## The Red-headed Woodpecker.

(By Gladys Dillon, Sr. IV, Longwood School.)

The red-headed woodpecker is found in Canada and the United States. His tail feathers are black, head and neck crimson, and that is how he gets the name of the red-headed woodpecker. The woodpecker lives on worms and gnats found under the bark. He walks up the tree aided by his feet, tail and beak. His feet are different from those of other birds. He has four toes, two at the back and two at the front. His tail is stiff, and props him while he is going up the trees. The woodpecker has a long, pointed beak in which he taps on the bark, and listens if he hears an insect moving about. If he does he pushes his beak in, opens his mouth wide enough to let his tongue out. Then he pushes his long, sharp tongue in and gets the insect and draws it into his mouth and eats it. The woodpecker also likes grasshoppers and beetles which are on the ground. He flies down and gets them, then goes to a top of a pine-tree and eats them. He also likes nuts. The woodpecker builds

every year

MARION BURCH. Simcoe, Ont., R. R. No. 5.

Dear Puck and Beavers,-I have just finished reading the letters in the Beaver Circle. I like reading the letters very much, as they are so interesting. Papa has taken "The Farmer's Advocate" for a long time. I go to school every day. I have only half a mile to go. I got a sliver in my foot about the first of September and we could not see it in there. We kept plasters on it, hoping that it would come out. It did not come out, so we went to the doctor with it. He could not find it, so he gave me a plaster to put on it. I had the plaster on for two weeks when one morning a sliver almost three-quarters of an inch long came out. We still kept the plaster on it, and in about another week another piece half an inch long came out. I was certainly glad when the last piece came out, because I had not been at school for two months. Our teacher's name is Miss Morrison, from near Arthur ; we all like her fine. Well I think I will soon have to close. I hope this letter escapes that hungry w.-p. b.

MILDRED SCOTT. Varney, Ont., R. R. No. 1. (Age 12 years, Class Jr. IV.)

Dear Puck and Beavers,-I have just

finished reading some letters of the Circle which I was pleased with. We have taken "The Farmer's Advocate" two years, and like it the best of all the papers we take. I live on a farm and have lots of pets. We have a dog

NDED 1866

d trunks of our to six very noisy this may be of insects he

adys? You han's "Bird

## tter Box.

nk you very ou sent me Competition. be able to am attend. home, and will be too

congratule on prizes in

NEWTON. , Que. Good Inck

ly other let. basket, so luck egain ot a lot of v I did. My nearly every ur teacher's ow many of I have just omen," and others more your little

CDOWDLL. 4. . 4. (V. Class.)

I am going suppose yes ged. Well, and that d, and my les," "The I like "The "Christmas e books on e on mothe catch them ruel becaus rlost" said nyway, and l use their e certainly ught a casey are very yself). We mothe in sides other catch them s near our lovely ones

## FEBRUARY 5, 1914

## THE FARMER'S ADVOCATE.

## **DOMINION BANK** Proceedings of the Forty-third Annual General

Dr. Maria Montessori

## Meeting of the Shareholders.

THE FORTY-THIRD ANNUAL GENERAL MEETING OF THE DO-MINION BANK was held at the Banking House of the Institution, Toronto, on Wednesday, 28th January, 1914.

MINION BANK was held at the Banking House of the Institution, Toronto, on Wednesday, 28th January, 1914.
Among those present were noticed: G. N. Reynolds, H. G. Horton, J. J. Foy, M.L.A.; James Watt, A. Foulds, W. C. Harvey, A. M. Nanton, Winnipeg; E. Burns, R. Wilkinson, James Matthews, Chas. B. Powell, C. Walker, Sir E. B. Osler, M.P.; H. W. Hutchinson, Winnipeg; D'Arcy Martin, K.C., Hamilton; F. E. Dingle, A. R. MacDonald, Epsom; H. R. Playnter, F. Boehmer, Chas. E. Lee, J. J. Cock, E. Roch, J. Harwood, J. Gordon Jones, F. LeM. Grasett, M.B.; F. H. Gooch, F. S. Wilson, J. D. Warde, C. P. Wooler, A. E. Gibson, R. B. Morley, W. McAdie, Oshawa; Dr. Chas. O'Reilley, Thos. F. Nivin, J. E. Finkle, P.Schoeler, Iames Scott, W. J. Waugh, Hamilton; A. McPherson, Longford; Judge McIntyre, Whitby; H. Morris, H. W. A. Foster, W. G. Cassels, F. C. Snider, W. S. Kerman, S. C. Halligan, Wm. Ince, H. J. Bethune, W. Mulock, Jr.; Rev. T. W. Paterson, Capt. D. F. Jessopp, Percy Leadlay, S. Jeffrey, Port Perry; G.-E. Gross, J. K. Niven, E. T. Fisher, Ashburn; A. B. Fisher, Ashburn; M. S. Bogert, Montreal; F. L. Patton, Winnipeg; R. J. Christie, F. C. Taylor, Lindsay; F. L. Fowke, Oshawa; J. C. Eaton, L. H. Baldwin; W. R. Brock, R. M. Gray, R. Mulholland, A. R. Boswell, K.C.; J. T. Small, K.C.; S. W. Smith, Whitby; William Ross, E. W. Langley, J. G. Ramsey, E. C. Burton, G. McDonald, J. Carruthers, E. W. Hamber, Yancouver; F. J. Harris, Hamilton; W. D. Matthews, H. B. Hodgins, Dr. A. J. Harrington, C. S. Wilcox, Hamilton; Ku. D. Matthews, H. B. Hodgins, Dr. A. J. Harrington, C. S. Wilcox, Hamilton; Ku. D. Matthews, H. B. Hodgins, Dr. A. J. Harrington, C. S. Wilcox, Hamilton; Ku. D. Matthews, H. B. Hodgins, Dr. A. J. Harrington, C. S. Wilcox, Hamilton; Ku. D. Matthews, H. B. Hodgins, Dr. A. J. Harrington, C. S. Wilcox, Hamilton; Ku. D. Matthews, H. B. Hodgins, Dr. A. J. Harrington, C. S. Wilcox, Hamilton; Ku. D. Brown, H. Gordon Mackenzie, Alfred Haywood, N. F. Davidson, A. A. Atkinson.

Messrs. A. R. Boswell, K.C., and W. Gibson Cassels were appointed scrutiacers.

The Secretary read the Report of the Directors to the Shareholders and submitted the Annual Statement of the affairs of the Bank, which is as follows:-TO THE SHAREHOLDERS:

Premium received on new Capital Stock..... 811.344 80 Making a total of ..... Which has been disposed of as follows:----Dividends (quarterly) at twelve per cent. per annum.....\$649,646.77 Bonus, two per cent...... 116,176.70 Total distribution to Shareholders of fourteen per cent Transferred to Reserve Fund-Premium on New Stock ... 811,344.80 -\$1,802,168 27 Galance of Profit and Loss carried forward ...... \$ 647,688 32 **RESERVE** FUND Balance at credit of account, 31st December, 1912......\$6,000,000 00 Transferred from Profit and Loss Account ..... 811,344 80 \$6.811.344 80 E. B. OSLER, PRESIDENT. C. A. BOGERT, GEN. MANAGER.

The Year 1913 was one of general financial and commercial depression throughout the world, which conditions became more accentuated during the closing months of that period. Your Directors, therefore, deemed it advisable to enforce a policy of computing the closes of the second se to enforce a policy of conservatism without interfering with the requirements of legitimate borrowers.

The funds of the Bank were fully and profitably employed throughout the twelve months under review, resulting in a further increase in the net earnings, the disposition of which is dealt with in detail in the accompanying Report. A bonus of 2 per cent, was again distributed, in addition to the regular dividend of 12 per cent. Following the announcement made in the last Annual Report, an issue of \$1,000,000 of New Capital Stock was made to Shareholders of record of the 15th of February, 1913. The whole of this issue was taken up, and although the final payments thereon are not due until June, 1914—\$811,344 of the amount had been paid up on the 31st of December last. The total Paid-Up Capital of the Bank was, on that date, \$5,811,344. To meet the requirements of Section 56, Subsection 6, of the new Bank Act, you are now asked to elect auditors to serve until the next Annual General Meeting, and two written nominations have already been received in this connection. You are also requested to sanction the passing of new By-Laws, necessitated by changes in the Bank Act and the advisability of having them more fully meet present circumstances. Branches were opened in 1913, as follows:—New Westminster, B. C.; Fairview, Vancouver, B. C.; Fernwood, Victoria, B. C.; Medicine Hat, Alta.; Arlington Street, Winnipeg, Man.; Walkerville, Ontario; Danforth Avenue, Toconto; Eglinton Avenue, Toronto.

The offices at North Vancouver, B. C., and Guernsey, Sask., were closed, a existing conditions did not warrant their continuance.

Very satisfactory progress is being made in the erection of the new Head Office building at the corner of King and Yonge Streets, Toronto, and it is con-fidently expected that the premises will be ready for occupation before the end of this year.

The customary thorough Inspections of the Head Office and Branches have been made, including the verification by your Directors of the Balance Sheet now presented.

All the Assets of the Bank have been carefully scrutinized by the Directors and Officials, and its Investment Securities are carried on the Books at conservative values. E. B. OSLER, PRESIDENT.

Toronto, 28th January, 1914.

The Report was adopted. In conformity with Section 56, Subsection 6, of the new Bank Act, Messrs. Geoffrey T. Clarkson and Robert J. Dilworth were appointed Auditors for the current year. New By-Laws were submitted and passed by the Shareholders.

The thanks of the Shareholders were tendered to the President, Vice-President and Directors for their services during the year, and to the General Manager and other Officers of the Bank for the efficient performance of their respective duties.

other Omcers of the Bank for the emcient performance of their respective duties. The following gentlemen were duly elected Directors for the ensuing year: Messrs. A. W. Austin, W. R. Brock, James Carruthers, R. J. Christie, J. C. Eaton, J. J. Foy, K.C., M.L.A.; W. D. Matthews, A. M. Nanton, E. W. Hamber, H. W. Hutchinson, and Sir Edmund B. Osler, M.P. At a subsequent meeting of the Directors, Sir Edmund B. Osler, M.P., was elected President, and Mr. W. D. Matthews, Vice-President, for the ensuing term.

## GENERAL STATEMENT

Capital Stock paid in	6,811,344	00	
Total Liabilities to the Shareholders. Notes in Circulation. Deposits not bearing interest	4,639,890	00	\$ 7,747,913 60 \$13,559,258 40
Balances due to other Banks in Canada Balances due to Banks and Banking Correspondents	59,788,590 540,263		
in the United Kingdom and foreign countries Bills Payable. Acceptances under Letters of Credit. Liabilities not included in the foregoing. Total Liabilities to the Public.	783,418 184,747 931,914 87,378	44	
			\$80,506,462 05
Assets			
Gold and Silver Coin. Dominion Government Notes. Deposit in Central Gold Reserves. Notes of other Banks. Cheques on other Banks. Balances due by Banks and Banking Correspondents	8,524,405 500,000 674,007 3,048,680	25 00 12 8	
elsewhere than in Canada	1,609,129	6	
	1,609,129 15,965,880		-
Dominion and Provincial Government Securities, not exceeding market value Canadian Municipal Securities and British, Foreign		74	i
Dominion and Provincial Government Securities, not exceeding market value. Canadian Municipal Securities and British, Foreign and Colonial Public Securities other than Cana- dian, not exceeding market value.	15,965,880	74 43	1
Dominion and Provincial Government Securities, not exceeding market value Canadian Municipal Securities and British, Foreign and Colonial Public Securities other than Cana-	15,965,880 407,120	74 43 84	5

Call and Short (not exceeding thirty days) Loans else-

#### BURCH.

have just the Beaver etters very ting. Papa vocate" for every day. I got go. he first of see it in it, hoping It did not the doctor it, so he it. I had s when one ree-quarters We still in about alf an inch tainly glad , because I wo months. s Morrison,

ke her fine. ve to close. hat hungry

## D SCOTT.

Jr. IV.)

have just rs of the with. We Advocate" best of all on a farm have a dog

called Rover, who is a fine watch-dog, and a cat which we call Pussey. He cometimes gets into mischief. I tried to grow peanuts last year and had good success. I grew about ten bushels of pop-corn. I am going to try to grow mushrooms next summer.

I go to school every day and am in the fourth book. Sometimes in winter ice covers the noad and we go out on the road with our skates on and catch on behind a sleigh or cutter and slide all the way to school. When we get there before school there is a large ditch in front of the school which we can ekate on.

I used to have an owl for a pet, but we did not know what to feed it and it died. We used to have a red

squirrel, but one day it fell and killed itself.

My letter is getting kind of long, so I will close with a few riddles:

What is it which a man, no matter how smart he is, overlooks? Ans .--own nose.

Why is a watch like a river? Ans .--Because it will not run long without winding.

Why is the figure nine like a peacock? Ans .- Because without a tail it is noth-

Who always enjoys poor health? Ans. -The doctor.

What subject can be made light of? Ans.-Gas. NO NAME SIGNED.

South Woodslee, Ont., R. R. No. 1.

#### where than in Canada..... 247,498 10 -\$27,102,876 40 Other Current Loans and Discounts in Canada (less rebate of interest)..... Other Current Loans and Discounts elsewhere than in 48,495,567 06 Canada (less rebate of Interest)..... 24,275 99 Liabilities of Customers under Letters of Credit as per contra. Real Estate, other than Bank Premises. 931,914 76 16,569 56 Overdue Debts (estimated loss provided for) ..... 146,132 38 Bank Premises, at no more than cost, less amounts written off..... Deposit with Minister of Finance for the purposes of 3,488,029 08 the Circulation Fund..... 263,900 00 Mortgages on Real Estate sold ..... 37,196 82 \$53,403,585 65

Toronto, 31st December, 1913.

#### FUNNIES.

A teacher told little Johnnie that the word "ferment" means "to work." Later in the day she asked the class to write a sentence containing the word "ferment" correctly used. Johnny wrote, "I would much rather play out of doors all day than ferment in school."

100

Tommy declared to his teacher that the word "furlough" means "a donkey." "Why, no," said the teacher. "But I will show that it does-in a book." said Tommy. Next day ge brought the book and pointed triumphantly to a picture . of a soldier riding on a donkey. Beneath the picture was the line, "Going Home on Furlough."

### C. A. BOGERT, GENERAL MUNAGER.

**Our Junior Beavers.** 

[For all pupils from the First Book te Junior Third, inclusive.}

Dear Puck and Beavers,-Our school had a Christmas tree. We did it all ourselves. One of the boys acted as chairman. One of our best dialogues was. "A Scene in the Barber Shop. am in one named, "The Day After Christmas." I made believe that I was sick. Here is a riddle :

Which travels slower, heat or cold? Ans .--- Cold, your ears catch it.

HERBERT McINNES.

\$80,506,462 05

Lyons Brook, Nova Scotia. (8 years, Grade IV.)

#### THE LUCKY LITTLE STAR. By Miriam S. Clark.

"I'm a lucky little star !" sang the brightest in the sky.

"Of all the stars about me there is none so glad as I 1

For every night at twilight, at the end of every day,

I can look right through a window, in a very pleasant way.

And watch a little mother, with a pretty, drooping head, As she tucks a little earth-child up, and

leaves him safe in bed.

"And when she's drawn the curtain back, and blown away the light,

She leaves the little earth-child to slumber through the night;

But never right to slumber,-our secret may it be,-

For every night the little child looks out and smiles to me.

No other star in heaven has so good a place as I!

I'm a lucky little star !" sang the brightest in the sky.

Dear Puck and Beavers,-This is my first letter to your Circle. I enjoy reading the little Beavers' letters. am a junior Beaver. I am eight years old. I like to go to school very much. I am always head of my class. I have been going to school a little over a I live on a farm of 160 acres. year. We have been on the farm six years. My father has taken "The Farmer's Advocate" ever since he came on the farm. I have a number of pets. I will tell you some of them. A pair of rabbits, a dog, three cats, and some goldfish. Mother bought the goldfish when she was in Toronto. I think they are very nice. I live a mile and a half from town. We live on the lake shore. It is very nice in the summertime because you can go in bathing whenever you want to. We have two boats. We go out in the boats and dive off the ends. We live on the shore of Lake Simcoe. Sometimes it is very rough on the lake. TREVOR MCLENNAN.

Beaverton, Ont.

Dear Puck and Beavers,-This is the second time I have written to the Beavers, as the one I wrote before was in the honor roll, so I thought I would try again. I go to school. I am seven years old and in the second book. Our teacher's name is Miss Anderson. We have four kittens, one dog and two ponies. I guess I will close with a lew riddles :

(Age 8.)

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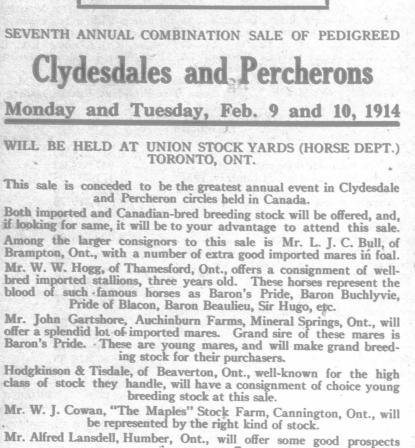
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farmer. While saying his prayers, which he never forgets, he always says, "Good night everybody, Good night God."

Dear Puck and Beavers,-This is ins first letter I have written to your Circle. My father has taken The Farmer's Advocate" for as long as I can remember. For pets I have a here and a calf. I call the hen Fanny, and the calf Snowflake. We have one horse and three colts. The horses' names are Charlie and Pat, Nell and Jess, have about 23 rabbits. We live on farm of ninety acres of land. I go to school svery day. Our teacher's name is Miss McFarlan. I like her fine.



HORSE

Mr. Alfred Lansdell, Humber, Ont., will offer some good prospects in young stuff.

Many smaller consignments will also be on hand.

This sale will include an especially good lot of mares of choice breeding, many of them in foal, and will afford breeders and farmers a splendid opportunity of securing good stock for renewal of their breeding stock.

Be sure and attend this sale, and make sure of getting some of this good stock.

Catalogues are now in the mails.

Auctioneer: CAPT. T. E. ROBSON, London, Ont.

Wilfred Ferdinand Costello, son of J.

F. Costello, Wentworth Co., Ont., and

his axe, the Canadian George Washing-

ton, who chopped down an apple tree

and said he did it. He is four years

old and weighs 58 lbs.," can stand and

jump four feet seven inches, and chop more wood in an hour than our 19.

year-old hired man, "when the boss is

away." He can whistle a tune, he can

also milk a cow, drive his favorite horse

Dorchy on the sulky rake for second

raking and stubble, drive a team on

the roller. Churning, turning grind-

water, carrying in the wood, washing

dishes, etc., are only a few minor

tabors. He has an axe, pail, wagon,

eled, foot-ball, rabbits and calf, all of

which he sees get the best of care. His

favorite job is chopping wood. As we

keep good and bad accounts, he also

heads the list. He has been to the

States four times with his mother, who

is an American. He cries to go to

school, and awaits the arrival of each

Advocate with great interest and

positively declares he is going to be a

stone, picking apples, potatoes, pump

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200

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Write today for free Catalogue Quality Beds, Limited Manufacturers, 115 Main St. Welland, Ont.

What is smaller than an ant's mouth? Ans .- That which goes in it.

What goes all the way from Hamilton to Toronto without moving? Ans .-The railroad.

What crow is most useful to a man? Ans .-- A crowbar.

Why is a farmer cruel to his corn? Ans .-- He pulls its ears.

MARION A. WALKER. Milton, Ont., R. R. No. 3.

Dear Puck and Beavers,-I am going to write and tell about our school Christmas tree. We had great fun, first of all practicing our singing and recitations, dialogue, drills, etc. The day before we decorated our school with flowers, lilies and evergreens, and the next morning we put up our huge Christmas tree and hoisted our Union Jack outside. Well, our parents and friends all came, and we all did our parts very well, judging by the amount of clapping; then Miss Johnston, our teacher, distributed our presents given by her and our parents, and just as she was finished the alarm clock given by the school to her went off. She also got a portfolio from one of her school boys. Then the ladies passed around cake, chocolate fudge, and maple cream. We all went home happy. I got a pretty Christmas card from a Beaver from Owen Sound, but don't know her name. I thank her very much.

EVANGELINE O'HARA. Mt. Carmel, Ont.

(Age 8, Book II.)

Paris, Ont., R. R. No. 4. ETHEL GEDNEY. (Age 8, Class Sr. II.)

#### SOME AFTER-CHRISTMAS LETTERS.

Dear Beavers,-It really seems though all the little Beavers want to write at once to tell "what they got" for Christmas, and although several "old" letters have to be held out to make room for them we are going to make room for a few of these "after-Christmas'' letters to-day. I wish you would notice particularly the one write ten by Gladys Le Dunn, St. Thomas. Gladys says she would like to receive letters from the Beavers, and I am sure I hope some hundreds of them will be sent to her. You, little Beavers, can do so much, just in this way, to give pleasure to this little sister Beaver who had such a sad Christmas. PITCK. 1 1

Dear Puck and Beavers,-This is first letter to your Circle. I always read the Beaver letters as soon as the Advocate comes home.

How many of the Beavers had a good time on Christmas day? I think nearly all of us did. I got a doll from old Santa this year; it is a big one, and it can sleep and cry. I also got a doll from my teacher. My teacher's name is Miss McGrath. We all like her fine.

I hope all the Beavers enjoyed their holidays. I had a good time skating and sleigh-riding down the hill. Did any of the Beavers ever read "Alice in Wonderland"? I have and I think 1



# Dr. Maria Montessori

## FEBRUARY 5, 1914

DED 1866

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is very interesting. Well, my letter is getting long. I will close wishing you all a Happy New Year. Manitoulin Island, Evanaville, Ont. ...

BEULAH BAILEY. (Age 11, Book III.)

Dear Puck and Beavers .- This is my second letter to your circle. It is a tong time since I wrote. but I saw my other letter in print so I thought L would write again. Our post office is changed, as the R. R. is started, and it TR. R. No. 1, Clandeboy.

We had a Christmas tree for the Sunday School, and it was loaded with presents. On Christmas day we were down at our uncle's and we had a Christmas tree there. A lot of my cousins were there also, and we had lots of fun. We had about twelve miles to go. It was about half past sine when we got home. and we were all tired from our day's fun. Well, 1 will close now. Thanks to the Beaver that sent me that pretty, Christmas card. MARGUERETE MAGUIRE.

Clandeboy, Ont., R. R. No. 1.

Dear Puck and Beavers,-I enjoy reading the Beaver Circle very much. We had a very sad Christmas this year, as my eldest brother was killed on his train the 21st of December. He was a Wabash fireman. My dear daddy died also the 15th of last June, so mamma and my youngest brother and myself are all that are left at home now. I have one sister Alice, married, living in St. Thomas, and one brother. Ernest. M. C. R. fireman. I have a dear little bird that Doctor gave daddy when he was ill, and I have a dear little dog whose name is Fox. As this is my first letter will some of the Junior Beavers write to me ?

GLADYS LE DUNN. St. Thomas, R. R. No. 5.

(Age 9.)

I want to tell'you about the good times I had through the holidays. We had a nice Christmas tree. I got some nice presents. We spent Christmas at home and had our uncle and aunt and another, friend to dinner. In the afternoon I went out skating and sleigh-riding with my brother and some other I like to go out to the barn at night when papa goes out with the lantern to see the little pigs. We have 12 of them. We have a little dog: his name is Ben. and I have lots of fun Well, I think I will close with him. for this time.

FLORENCE BURNS. Richwood, Ont.

(Age 10, Sr. II.)

## THE FARMER'S ADVOCATE.

gages in the titivation of toy dogs; she pounds the family piano; she eats chocolates and caramels enough to fill a well; she dreams of sunbursts and tiaras while her papa worries about notes and bills; she lies on downy beds of ease with the last best seller and worst smeller, then rises and goes out in quest of adventures; she grows in fat and folly; often she is both ox-eyed and peroxide; to her, work is the only misfortune, fat the only burden, and pimples the great enemy of womankind; she has created what we are pleased to call the servant problem, which is only the drone problem, caused by the increasing number of those who toil not, but have to be toiled for. Even her system cannot do its work, and the physician and the surgeon are added to the list of her servants, and become as necessary as the cook and the chambermaid."

## The Women's Institute.

## Does Education Pay Morally?

[A paper read by Miss Viola McKnight at a meeting of the Ravenna Branch of the Women's Institute.]

No doubt there are many arguments pro and contra this subject, but on the whole I maintain education does pay morally. Of course, there are exceptional cases. For instance, if a man has not the right spirit, he can use his education to make himself all the greater villain. Byron was a great poet, but his life was morally a failure. I do not intend, however, to deal with this side of the topic to-day, but will endeavor to show that education does pay morally. The ultimate test of education is moral character. It is vastly more important that youths should learn honor, purity and manliness, than that they' should become expert as readers, grammarians, or mathematicians. Conduct is character made vocal and visual. It is the duty of the school to instruct the pupil in good manners, and give him some appreciation of what is beautiful and true. The general description of the Canadian boy, by foreigners, is his lack of man-Education is doing a great deal ners. in putting boys and girls into possession of refined manners, and in developing a high moral character.

It is an important matter to fill the minds of the boys and girls with many, many lines of good poetry and prose. Beautiful selections of poetry and prose have served as a talisman to keep at

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GEDNEY. s Sr. II.)

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## LETTERS.

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nad a good I think a doll from a big one, I also got y teacher's all like her

joyed their ne skating hill. Did Alice in I think it

Dear Little Beavers .-- I will tell you what I got for Christmas. I got a doll that would talk and a skipping rope, a set of furs, and nuts and candies, a pair of kid gloves. We had a calf called Snowball, so I composed some verses about it. Good bye.

Your friend, AUDREY TUNKS. Komoka, Ont. Your verses didn't "rhyme," Audrey, so we cannot print them. Sometime. perhaps, when you are older you will understand what I mean. Which do you like better, your doll or Snowball?

Some Modern Girls.

In the course of a recent address in New York City, Irving Bacheller, author of "Eben Holden," "D'ri and I," and other stories, relieved his mind as follows : "We are beginning to despise work and trade; we are putting aside the old ideals. Leisure and fun are the things that seem to concern us most. Take the daughter of your butcher, or your grocer, or your baker. If he is a reasonably prosperous man, he sends her to a private school, where she learns the arts of leisure and of idleness, where she acquires all the delightful variations in the Fifth avenue dialect. She generally has a pair of obedient and respectful parents; often she is ignorant of the distinction between an adverb and an adjective, but she can converse in French and sing in Italian; she can tell you much about the work of Botticelli and Fra Angelico, but she knows little of the work of her own home; she trills and warbles and motors and whists; she en-

bay evil thoughts, dangerous suggest and harmful actions. If this were all that the memorizing of good literature did, it would well compensate for all the time and effort expended. In addition to this, such selections furnish the possessor with lofty ideals. Pursuit and attainment in any endeavor should be along the line of individual ideals. We must wish for larger things, and picture them before we can realize them. Good literature will picture things for our vision and contemplation, and goad us to activity to attain them. The correct way of measuring an individual is to know what company he keeps during the hours of solitude. If the mind is filled with noble thoughts, the hours of solitude will be spent in contemplating them. Our thoughts will be fed from the crib of our possessions. As age may creep upon all of us, and as age is reminiscent in character, it is well to provide suitable reflection material for those oncoming rainy days by filling the mind with the richest and best of the world's enduring thoughts in the form of literature. All may be able then to enjoy declining years because of the inexhaustible storehouse of healthful thoughts upon which age will be able to feed. The thoughts contained in these selections will help us, and will help the boys and girls to live aright, which is one of the greatest purposes of human existence.

The motive for educating is not to escape toil and drudgery, but to increase efficiency by and through them, and to develop the powers of service. The most honorable garments in the world's history are calico and overalls, and the man or woman and the boy or girl who is ashamed to be arrayed in these when necessary, has become dis-

## "CANADA'S BIGGEST PIANO VALUE?"

Now think! That claim must be either true or not true. Twelve hundred Canadian families proved its truth to their own satisfac-tion last year. They wrote direct to us for the proofs. They made a thorough investigation, and they satisfied themselves beyond any reasonable doubt, that the

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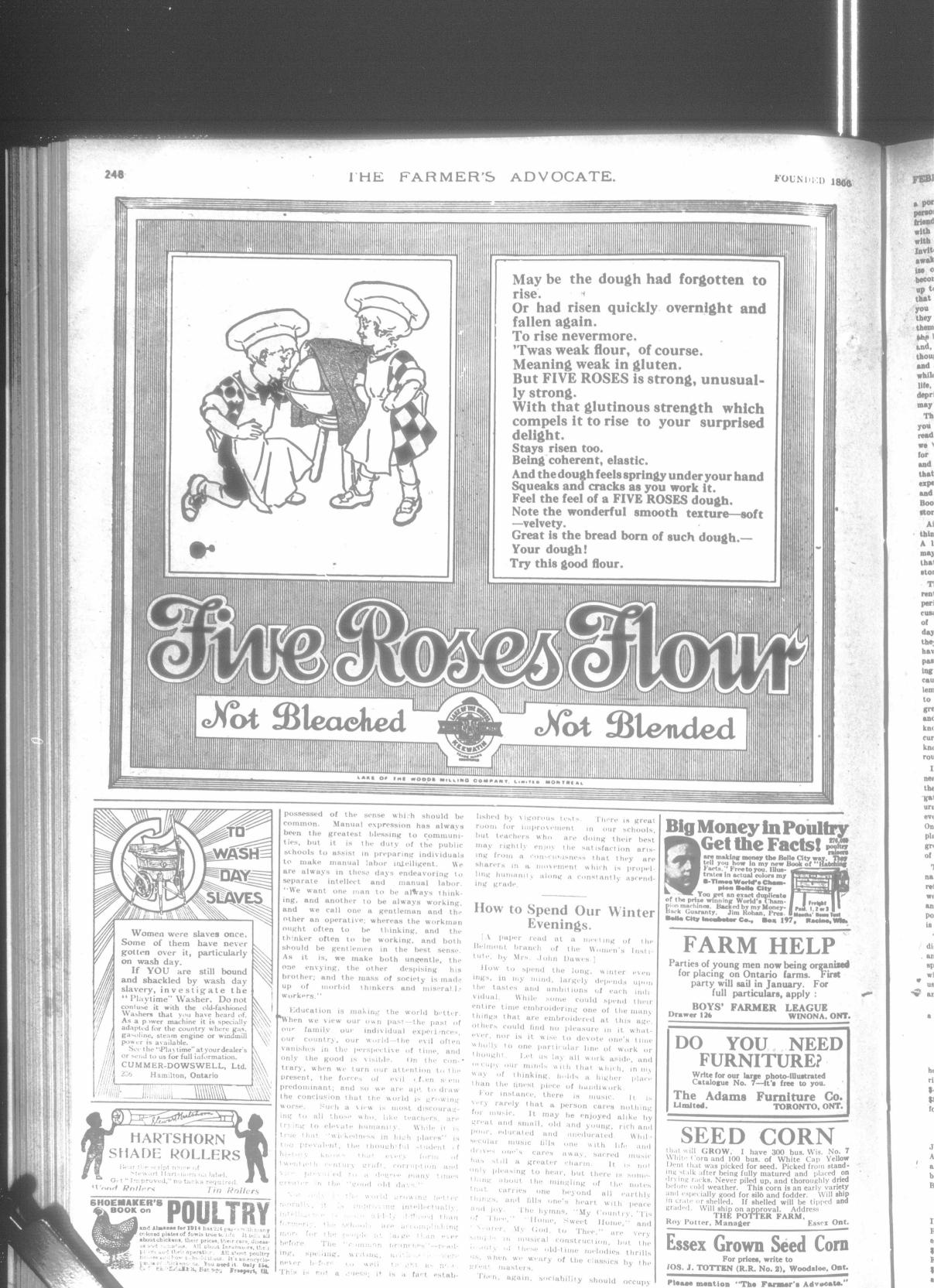


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NDED 1866

### FEBRUARY 5, 1914

a portion of our time. Isolation means personal starvation. If you want friends, you must be friendly. Associate with the very highest intellectual peop,e with whom you can come in contact. Invite them into your homes. They awaken us out of our dreams and actualize our possibilities, for no person can become greater unless there is some being up to whom he may look. I don't mean that by associating with the intellectual you must pass the neighbors by because they happen to be uneducated. Invite them, also, to your home, and give them she benefit of mingling with the educated, and, perchance, they may grasp some thought or word that will elevate them, and give them fresh food for thought while they plod on in their monotonous life, which life certainly must be for those deprived of an education whereby they may read good thoughts for themselves. Then there is reading. What would you give in exchange for your love for reading? How ignorant and belittled we would be for all time, if it were not for reading ! How few, feeble, absurd and childish are the thoughts of those that have no books ! Books contain the experience, the conversation, the thoughts and deeds of great men and women. Books are the world's ages of wisdom stored up for the benefit of the readers.

Dr. Maria Montessori

Aim to read books that will make you think; also read much, not many books. A library in a village, town, or city, may contribute much to the progress of that place by reason of the thoughts stored upon its shelves.

Then, how very important to read current events. In this age of papers, periodicals, and magazines, it is inexcusable not to be informed in the events of the day. While current events today, they become history to-morrow, so they who grasp the present as it comes, have at their command the immediate past. History and economics are receiving more attention than ever before, because we want light on present problems. What we want to know is, how to construct the present to give the greatest satisfaction at the least expense, and this is possible to those only who know the present and fully comprehend current events, and are able to turn the knowledge thereof into proper use in our routine of daily life.

If no work is at hand and no books near, "ask questions." Nature has filled the world with wonders, and her interrogation points become interlogations naturally and necessarily in the minds of every healthy boy or girl, man or woman. One question answered is a hundred planted, and they spring up fresh and green, like living shoots about the roots of some great tree.

This habit of asking questions about

# THE FARMER'S ADVOCATE. .







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nature and great books, calls out our reflective powers, trains us to think, and we reap a reward in increased possessions and enjoyment of the best things. This power of reflecting is not inherited. It is only gained by mental exercise.

Then we must, above all else, read and digest the book of all books-the Bibleand through it we may hear our Father speak words that never man spoke, which, if we heed and obey, will make us meet to be partakers of the inherit-Tance.

He that loveth a book will never want a faithful friend.

#### Gossip.

On January 7th, at Saunemin, Ill., 22 head of Percherons, property of Holdridge & Son, sold for an average of \$408, the highest prices being \$700 and \$800 for stallions. The highest price for a mare was \$590

At an auction sale of Herefords, on January 12th, by Williams & Lile, at Atlantic, lowa, 27 females averaged \$171. and 11 bul \$165, the highest price paid being \$575 for the ten-year-old cow, Beau Maid

At a joint sale of Shires, at Bushnell, Ill., January 15, property of C. C. & R. W. E. Williams, and F. M. Williams estate, the highest price reached was \$1,000, for the sorrel mare, Williams' Flower 3rd. Two other mares sold for \$600, and \$695. The 27 head sold made an average of \$400.

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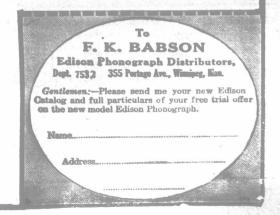
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## GREAT DISPERSION SALE Thursday, March 5th, 1914 OF EIGHT REGISTERED **4 GENERAL-PURPOSE 27 REGISTERED** SHORTHORN CATTLE HORSES

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To be held 1% south of HAGERSVILLE

Twenty-three females and four bulls, including imported Dorothy's King, a Lady Dorothy, and three young bulls of his get; 13 cows and heifers to have calves, some will have calves at time of sale; 10 yearlings and and heifer calves. These are a choice lot of cows and heifers, and some excellent milkers; they are all in calf to Dorothy's King, imported.

In Clydesdales there are three brood mares and four colts rising one year; one entire colt two years old, a right good one. The implements will be sold in the forenoon. Sale starts at 10 o'clock sharp.

TERMS: Seven months' credit on approved notes on all over \$10.

As the farm is sold and Mr. McNichol is retiring, everything will be sold without reserve. Lunch will be served at noon.

Send for catalogue and arrange to attend the sale. All trains will be met at Hagersville, G. T. R. and M. C. R.

Auctioneer, CAPT. T. E. ROBSON, London, Ont. Assisted by E. J. WIGG and J. FLEMING



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ist.— Questions asked by bons-fide subscribers to "The Farmer's Advocate" are answered in this department free. "Ind.—Questions should be clearly stated and plainly written, on one side of the paper only, and dress of the writer. "And.—In Veterinary questions: the symptome

areas or the writer. Srd.—In Veterinary questions; the symptoms sepecially must be fully and clearly stated, other-wise satisfactory replies cannot be given. 4th.—When a reply by mail is required to urgent veterinary or legal enquiries, \$1.00 must be enclosed.

#### Miscellaneous.

#### **Association Dues.**

I joined a breeders' association three years ago, and paid the annual membership fee for first year, and supposed when I ceased to pay annual fees that I would cease to be a member. Now they claim that I am still a member until I give them notice in writing three months before the end of the year. Can they legally collect membership fees for the past two years ? J. W. Ans .-- We think so.

#### A Kicker.

What is good to prevent a horse from kicking at other horses in the stall? A. T.

Ans.-Build the stalls of sufficient length so that the animals cannot injure one another. Build them high enough that the horses cannot fight over the tops, and the the horses short in the stalls. Place a rope or chain across behind the kicker to keep him up in his stall.

#### **To Prevent Joint Ill.**

What is the prescription to prevent joint ill in a colt? T. J. O. Ans .-- Place the mare in a clean stall or paddock before foaling, and as soon as the foal is dropped, apply to the umbilical cord a strong antiseptic, as a ten-per-cent. solution of carbolic acid, or liquid formaldehyde, or a solution of corrosive sublimate 15 grains to 8 ounces of water. Repeat the application four or five times daily until the navel heals over

To Stimulate Growth of Mane.

I have a three-year-old mare. She has rubbed out half of her mane in the middle of her neck. What can I do to make it grow as quick as possible? I want to exhibit her in the horse show in April. A. C. H.

Ans .-- The growth of hair may be stimulated to a certain extent by rubbing well about once a week with an ointment composed of 1 dram cantharides, mixed with 2 ounces vaseline.

#### **A Winter Ration.**

Could you please compound a ration for dairy cows out of the following : Good silage, well cobbed: oat straw; tur-



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will salt more Butter, pound for pound, than any other salt you can use. Because Windsor Dairy Salt is pure salt and all salt. Windsor Dairy Salt not only lends a delicious flavor to the butter but also helps to keep the butter. 129 Better Butter-**Bigger Profits!** If you wish your butter to be smooth and uniform, use the "BRITISH" **Butter Worker** Adopted by the best dairies in Gt. Britain and Canada. Makes the butter firm-even-consistent all through. Results in better butter and bigger profits!

on your soil. The soil must be sweet to produce good crops. Where sorrel, horse tail, moss, etc., appear, the soil is sour, and you cannot expect the maximum yield of hay, cereal or fruit without correcting this acid condition. Lime Carbonate (Caledonia Mari) will do this. In many instances it has more than doubled the yield. We furnish blue litmus paper free with directions for testing your soil. Write us for further information. Agents wanted.

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nips; oat chop; bran, and oil cake? G. T. W.

Ans .- The following ration will give you a very good mixture : Oat straw, 8 lbs.; silage, 35 lbs.; turnips, 20 lbs.; oat chop, 4 lbs.; bran, 2 lbs.; oil cake, 2 lbs. The silage will keep better than the turnips, and it might be advisable to feed a litt, e heavier of the turnips and reserve the silage for spring feeding.

#### Oil Cake for Colt.

What amount of oil cake should a colt nine months old be fed, along with two quarts of whole oats and bran, and hay as roughage? Could it be fed any heavier on grain than this? It is a heavy colt, and I would like to shove it right along. Let me know anything else I could feed him. H. W.

Ans .- We take it that the colt is getting this grain feed three times daily. If so, start easily with the oil cake, giving about a good double - handful in his grain once daily in the beginning. Gradually increase until he gets this twice or three times daily.

#### Feeding Hens.

1. Should laying hens run outside when they like ?

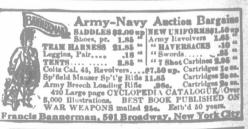
2. Is two quarts of grain too much, twice a day, for 30 hens? If not, how much? It is wheat and buckwheat. They get a mash at noon, and all other necessaries J. A. C.

Ans .- 1. Under some conditions, yes. Hens on the general farm do better when the weather is not severe, to have free range.

2. No. This should be enough, provided green food, grit, and milk or meat food, are given in sufficient quantity. If a heavy mash is fed, it is plenty.

Sold by dealers everywhere. Three sizes — 14 in., 17 in. and 20 in. wide.

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#### **Ouestions and Answers.** Miscellaneous.

#### These Hens Lie.

1. My young pullets lie two in a nest at night, instead of roosting with the other hens. Will this deform them, and how can it be stopped ? We tried shutting up the nests temporarily, but they started again. Ought I to get rid of them, or can it be cured ?

2. Is it usual ?

5. Do laying hens require corn, and should it be given whole ? They get wheat, oats, and buttermilk regularly.

A. R. M.

Dr. Maria Montessori

Ans .--- 1. Break them of the habit by closing, the nests each night. It is not likely to deform them, but they should be broken of it.

2. No.

8. Corn is not absolutely necessary. In winter, a little is good for them mixed with other grains.

Holidays--Goat.

1. Would you kindly tell me whether a man hired by the year on a farm, can take New Year's Day as a lawful holiday? What are the lawful holidays on a farm 7

2. Is a goat any protection to a flock of sheep? As a rule, would they be troublesome on fences ? N. M.

Ans .-- 1. New Year's Day is a holiday. Unless there is an agreement to the contrary, hired help in Ontario is entitled to Sundays, New Year's Day, Good Friday, Easter Monday, Victoria Day, Dominion Day, Labor Day, Thanksgiving Day, Christmas Day, and any other day or days proclaimed as public holidays. Usual farm chores must be done, however, on holidays.

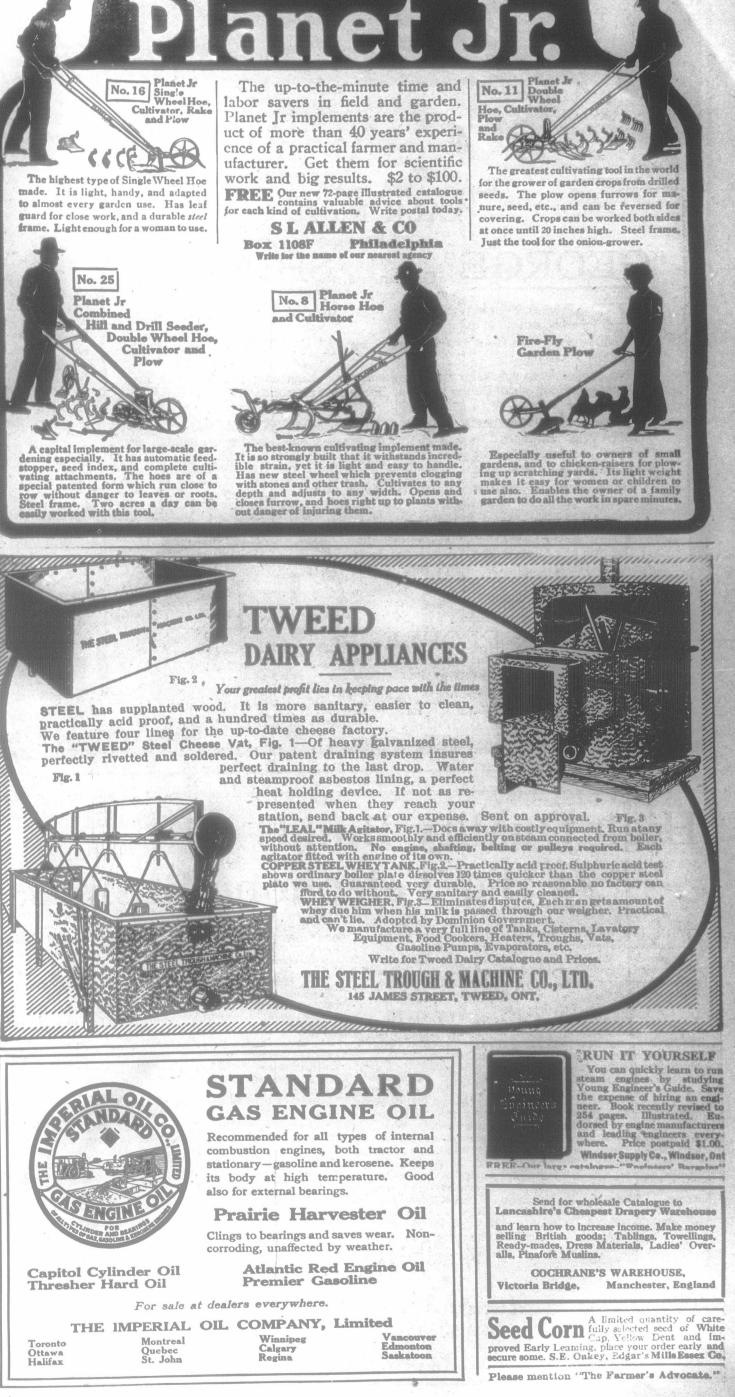
2. Many people believe a goat is some protection from dogs when allowed to run with a flock of sheep.

Tread Power for Separator.

I have a separator, and I would like to run it with dog power. Could you give me any information on how to attach the power to the separator? I was thinking I could run it with a belt, but I was told the crank was bolted to R. R. the wheel of the power.

Ans .-- We do not see how you could attach the crank of the separator to the wheel of the power and get sufficient speed with a dog to run the separator to requirements. A correspondent describing such an attachment in "The Farmer's Advocate" some time ago, said that they used the bull to do the separating, and until he was two years of age, used a horse. You could run it

## THE FARMER'S ADVOCATE.



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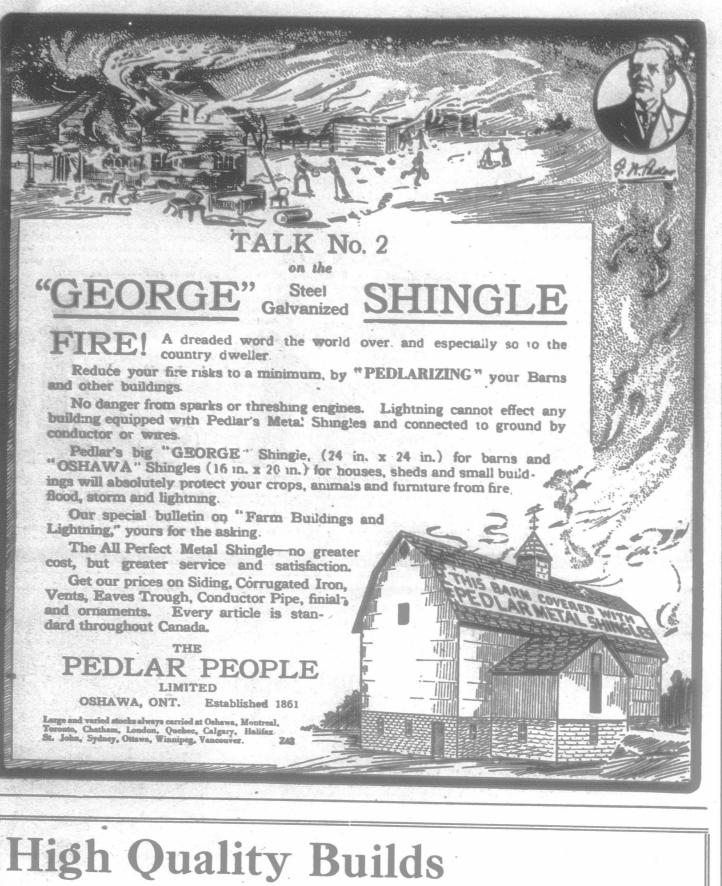
with a shaft and pulleys, or belts and pulleys, and according to our correspondent, the pulley on the shaft must be a certain size, according to the weight of the animal used. If it is a separator of a large capacity, we doubt whether a dog could develop power enough to successfully operate it.

Milk Inspection.

In the locality where I live, the farmers are mostly engaged in dairying. We are visited from time to time by dairy inspectors from Toronto, and as several herds have contagious abortion, and my herd has always been free from that trouble, can I compel the inspector to disinfect his boots and clothing before entering my stable? How can the farmer be protected from the inspector carrying this trouble from one herd to another? Why must I answer all the inspector's questions, such as how many cows are you milking now? How many cows have you altogether ? How many cans of cream do you ship per week, etc.? YOUNG FARMER.

Ans .--- We do not think the farmer requires protection from good inspectors. They invariably disinfect boots and rubbers before going into another stable after having visited a stable where a contagious disease is prevalent. The inspector in doubly careful not to spread contagion. You really do not have to answer all questions, but it would be better for you, likely, if you showed the inspector a certain amount of courtesy, and answered his questions readily. These questions are not unreasonable, and there should be no hesitancy in answering.

FUJI WICKO SAFELIA IN



#### Questions and Answers. Miscellaneous.

FOUNDED 1866

#### Free Martins Breeding.

I have a pair of twin calves, one heifer and one bull. Have been told that a twin heifer would not breed. Inform me, through your valuable paper, whether it is true or not. J. T.

Ans.—A heifer born a twin with a bull seldom shows periods of œstrum, and thus does not breed. The bull is all right. In some cases the heifer has also been known to breed, but this is not the general rule. If the heifer shows heat, she will likely breed.

#### Losing Feathers.

Will you tell me the cause and cure of my White Wyandotte hens moulting around the heads. They are in a good house, and regularly fed. I give soft fed, warm, for breakfast, and for dinner green feed, with grain for supper.

READER.

Ans.—It is likely the hens are fasher pulling. This is probably due to the lack of meat food, or it may be that the bens are lousy. A correspondent has advised the feeding of sulphur to correct this.

#### **A Pernicious Habit.**

I have lost quite a number of my chickens through them pecking each other's combs and then bleeding to death. Both hens and roosters are alike. It seems a kind of mania. They get plenty of water to drink, a mash once a day, and hard grain twice. They have a wellventilated pen, and plenty of barley straw to scratch in. They look healthy and are laying fairly well. Can you give me any information as to why they perk each other ? C. S.

Ans.—This trouble is caused originally by a depraved condition, due perhaps to lack of animal food, until it becomes a pernicious habit. While the fowls' combs are sore, their companions will continue to peck them. You will have to separate the injured birds, and if there are only a few offenders, they may as well be done away with. Feed some bonds and meat scraps. A ration containing sulphur has its advocates, and it is advisable to give them a large range.

#### Silo and Certificate of Service.

Would you please advise me on the following questions: My farm consists of 70 acres; my stock of cattle from fifteen to twenty head.

1. What size silo would you advise me to build?

2. There is a bank at back of my barn. Would it be advisable to lower

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# **Big Telephone Business**

THIS business was organized to manufacture telephone equipment for independent local and municipal systems. Right from the start our equipment made records for efficiency. It did not take long for our goods to acquire a reputation for quality and reliability. As a result, our business has grown by leaps and bounds.

It is a well-known fact that we have been securing over 80 per cent. of the new telephone business in Ontario. The business, too, has been secured with less effort than business secured by competitors. The satisfaction our telephones and equipment have given under all conditions has paved the way for easy business getting.

To judge how fast our business is growing, you'll remember we stated in a previous annuncement that our business last year doubled that of the year before. Well, this year the first two months' sales total more than twice the 1912 sales for the same period. More and more is it being recognized by those in the local telephone business that we are the legitimite people to deal with. There are those in the telephone business who are interested in depreciating the success of the independent telephone movement and the development of municipal systems. On the other hand, our business lies wholly and directly with the independent telephone systems, and it is to our own best interests to look after those systems well, as on their success depends the growth of our business.

If you would like a list of the large independent telephone systems built in Ontario during the last twelve months, just drop us a line. We would be glad to send you a list of the systems, with the make of the telephones they are using. In fact, if you'll name over the large independent systems built during the last year in Western, Northern and Eastern Ontario you'll find that nine out of every ten are using our telephone and equipment.

You are absolutely safe in equipping your system with our telephones. We guarantee them as regards material and workmanship. In fact, we guarantee all our equipment and materials. And in addition, we offer to send our telephones for **Free Trial**, so you can test and compare them with others right on your own lines before risking a dollar.

Ask for our No. 3 Bulletin—containing the latest information about building telephone lines. Also No. 4, describing our magneto telephones, is free on request.

Send for a copy.

LET US QUOTE YOU ON YOUR YEAR'S SUPPLY OF DRY CELL BATTERIES.

# Canadian Independent Telephone Co., Limited 20 Duncan Street, Toronto, Canada

Also minufacturing agents for the Magnaphone Co., under Mr. George R. Webb's Canadian Patents, No. 123373, No. 124537, No. 131145 the silo to the level of feed-room foor by building stone or cement to a little above the level of the ground, and continuing from that up with staves, or would you build it all above ground?

3. I bought a pure-bred Yorkshire sow last spring. She was sold to me to be safe in pig. I wish to register some of the young sows. I have written several times to the man I bought from for a certificate of service. The last time I wrote I enclosed a form furnished by the National Records for that purpose, also stamp for return postage. I cannot register the young sows without it. Am I entitled to certificate of service? If so, what steps should I take to get it? E. A. F.

1

Ans.—1. A silo 14 feet by 24 feet, or one 12 feet by 32 feet 9 inches, will hold 67 tons of silage. Enough to feed 19 head of cattle for six emonths at 40 lbs. per day. This should be filled from 4.7 acres of corn, with an average of 15 tons per acre. We advise a silo, in your case. 12 feet in diameter and 33 feet to 40 feet high.

2. Lower the silo level with the feedroom, but put a tile drain around the silo, and one leading from underneath. The part in the ground should be cement, and care should be taken with the point of juncture if you continue on with stones.

3. Reliable live-stock men seldom conduct their business in this manner. You are undoubtedly entitled to the certificate of service, and if you cannot come to an understanding with the party from whom you purchased this animal, you will have to leave it in the hands of a solicitor. You are entitled to the certificate. NDED 1866

FEBRUARY 5, 1914

# nswers.

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# In the Dairy Use Panshine to thoroughly clean and shine all the cans, pails, shelves, etc. Leaves everything sweet-smelling and sanitary. Cleanliness pays-especially KITCHEN MAGIC in the dairy. Use CLEANSER It's a pure, white, clean powder-doesn't scratch-can't barm the hands-odorless. Sold in Large 10c. At all Grocers. At all Sifter Top Tins **Repairing Made Easy!** Pump You can lift out your pump for repairs quickly and easily -right where you can get at it—by using a Safety Hoist enables one man to change wagon boxes, stretch fence and handle heavy loads easily. It elevates, lowers, locks and unlocks with one rope only. Holds load at any point. Heavier the load—tighter the grip. No. 3—Capacity, one ton, 955 One of a dozen sizes, 400 pounds to ~ 44 tons. See your hardware dealer or write

Dr. Maria Montessori

## THE FARMER'S ADVOCATE.

#### Questions and Answers. Miscellaneous.

Will Ground Grain Lose in Feeding Value?.

Will grain ground, say, three months before being fed to stock, have lost any of its feeding value? W. D. R. Ans .-- Grain ground for that length of time is liable to become heated and musty. Possibly it may not lose in actual nutrients, but its flavor may be so impaired as to materially decrease its usefulness as a food.

#### Goose Wheat Growing.

1. What is the average yield of goose wheat per acre?

2. What is the feeding value compared with barley ?

3. What is the general market price per bushel. as I have looked for market prices in three different papers, but failed to find any? Where could it be disposed of? Would it he best to have it shipped in car lots?

4. Would oats at 1c. per lb., or barley at 50c. per bushel, be more profitable than goose wheat ?

5. What is the average yield of oats and barley per acre?

AN OLD SUBSCRIBER. Ans.-1. The average yield of this variety for Ontario would likely be in the neighborhood of 20 bushels. However, on good soil. it often yields as high as 30 or 35 bushels per acre.

2. It contains a trifle more dry matter; a little more protein and carbohydrates, than does barley, per 100 lbs., and. of course, is a heavier feed, weighing 60 lbs. per bushel, as compared with 48 lbs. for barley. Pound for pound, there would likely be little difference in results, the wheat likely proving the stronger feed.

8. Goose wheat generally sells a few cents per bushel lower than other varieties on the market. It can be sold at any elevator or grain market.

4. Taking good crops a little above the average as a basis, and growing all for sale, there would likely be little difference between barley and wheat, both leading oats. Of course, goose wheat requires strong land, and it increases in value when mixed with other grains for feeding purposes.

5. Oats in Ontario average about 38 bushels per acre, and barley about 30 bushels per acre.

Duck Eggs and Farm on Shares.

1. Are duck eggs a' marketable commodity? If so, can they be sold along with hen's eggs?

2. What are the usual terms and con-The only hoist with adjustable today for FREE BOOK. ditions on which a dairy farm and or-(35) safety lock for various sizes of rope. Positively holds load, even if rope chard are worked on shares? HALL MFG. CO. d-room floor C. M. L. is worn, wet or greasy. 955 Codar Street Monticello, Iowa t to a little Ans.-1. There is a small market for nd, and conduck eggs, and they command a price h staves, or slightly in advance of hen's eggs. The ve ground? demand is limited, and it is not advisa-Yorkshire sow ble to mix them with hen's eggs. to me to be "A friend of the family" for 50 years, who keeps pace 2. Ordinarily, farming on shares, the ister some of owner of the farm pays 65 per cent. of with the times and improves all the whileritten several the expenses. namely, taxes, repairs, etc. from for is what they say about The farmer who works the place, hires last time I the help, does the work, and meets 35 hished by the **EDDY'S WARES** per cent. of the expenses, receiving 35 purpose, also per cent. of the net profits and the I cannot Grandmother always used EDDY'S MATCHES. Mother knew their excellence and bought, also, EDDY'S FIBREWARE and proved its owner of the farm 65 per cent. This is nout it. Am for general farming, but on a dairy farm service ? If there are so many factors entering into worth. In our time has been added EDDY'S TOILET PAPERS, e to get it? the transaction that it is hard to get E. A. F. sanitary and cheap, and many other articles for household use, all 24 feet, or of the same known quality as an estimate that would apply to all conditions. If the cows are ordinary prohes, will hold EDDY'S MATCHES ducers, of ordinary value, the same allotto feed 19 ment might he applicante, but if they ns at 40 lbs. were high producers and valuable pureled from 4.7 You cannot do better than continue to buy from the bred cattle, the owner is incurring more erage of 15 old firm, whose slogan is risk and should be reimbursed to a silo, in your larger extent. Working orchards on "THE MOST OF THE BEST FOR THE LEAST MONEY" and 33 feet shares is seldom done, the customary procedure being to rent them for so ith the feedmuch an acre or so much a tree. In around the some cases as much as 50c. per tree - is underneath. THIS complete book, bound in lithographed covers, is paid, but this depends upon the condild be cement. Rennie's New tion the trees are in, and the shape of ith the point YOURS for the asking. It is an elegant book-the the land and orchard generally. When nue on with best seed catalogue we have yet issued-and offers some all the work is done by the man on the Seed Annual most desirable Novelties in Vegetables and Flowers farm, 35 per cent. of the profits would seldom conwhich can be obtained only directfrom us. Many a not reimburse him sufficiently, and we for 1914 manner. You winter's evening can be spint profitably in planning would recommend that in the case of the the certificate your garden, by a careful study of this book. Shall we orchard, that he rent it outright for so, t come to an send you a copy r much a year, taking a lease on it for from whom Cer. Adelaide and Jarvis WM.RENNIE Co., Limited three or five years, and receive the profits ou will have TORONTO Streets, from the same according to his efforts a solicitor. Branches at Montreal, Winnipeg and Vancouver expended thereon.



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and the second se	5th		D. L. Brett, Oxford, Me.	400.	525
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	7th	8.9	R. J. Martin, Rochester, Vt.	331 8	520
	atuit	ty.	Geo. E. Burditt, Rochester, Vt.	457.8	634
Cart		7.00	(Mass R. I. Conn.)		

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b	00	1st	Prize	A. W. Butler, Brockton. Mass.	363.1		589	
1		2nd		Jos. Howland, Taunton, Mass.	344.9		574	
		3rd		Henry A. Wyman, Rock, Mass.	342.5		558	
	~~	4th		Edwin L. Lewis, Taunton, Mass.	260.2		515	
		5th		W. C. Endicott, Danvers, Mass.	217.7		503	
*		6th		Luther Holton, N. Franklin, Ct.	183.8	i.	450	
		7th		Dudley P. Rogers, Danvers, Mass.	185.7		430	

Send us your name for complete and instructive statement concerning the results of the contest and how these great yields of potatoes were obtained. No other fertilizer than the Stockbridge Potato Manure was used.

KFR FERTILIZER COMPANY 43 Chatham Street, Boston, Mass.



Fig. A

Keying the wheel to a shaft and turning the shaft in a boxing has given place to our method of using a stationary spindle, the wheel to revolve around the spindle, as

The advantages gained can be

shown at Fig. B.

### **Ouestions and Answers.** Miscellaneous.

#### Right to Wood.

A sells a farm to B. A has a quantity of wood cut, and also cedar ties at date of sale. Is A entitled to draw this material off the place when he moves ? Ontario.

#### Ans.-Yes.

#### **Ouitting Work**

The foreman of ----- mills here sent a man for me at 8 a. m. on the 5th inst. I went to the mill and started to work about 8.30 a. m. Having a better job offered, I quit. Worked there only on the day in question. Am I entitled to pay for the time employed ? They refuse to pay me.

#### Ontario.

Ans .- We think not.

#### Disputing Liability on Notes.

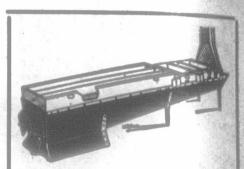
In June. 1907, two men came around selling shares in "Company E," and secured several shareholders by promising to start a branch in this district. but failed to fulfil their promise. Then they ceased doing business entirely, and sold the notes to a man named "A," living about eleven miles from there, who was the brother of the President of "Company E." A's name was down as being one of the directors. Now A swears he had nothing to do with the Company. Does that clear A? In a short time there is going to be a law suit. Can the defendants compel them to have the law suit in their home county where note was given, or do they have to go to the other county? The judge, who I think is inclined to be partial, declares it has to be held in A's county. These notes became due December 1st. 1907, which was proved by the books, but apparently someone has changed them. extending the time one month. What proceedings can defendants take against this director that holds these notes ? Can A compel the shareholders to pay the notes when they received no value? AN ENQUIRER.



Ans .-- We cannot answer any of the questions without further information as to the facts. There are, indeed, many circumstances to be considered, respecting which the statement of case submitted gives no information whatever. The shareholders in question ought to combine forces and instruct a solicitor to protect their interests: and incidentally they ought to give him the fullest information possible.

### Maple for Shade.

1. Would a wire cable work satisfactorily as a hay rope in a barn. Was thinking of putting in a cable instead of but was not sure whether it would ODe. be pliable enough. Would it be likely to twist or become kinked? What size would do?



FOUNDED 1866

Be Wise This Year and Install 99 hampion IN YOUR SUGAR BUSH

You've gone on long enough using old-fashioned, expensive methods in your maple grove. It's time for you to sit up and take notice of the fact that you can increase your profits from this part of your business to a greater extent than you ever dreamt of.

The "CHAMPION" Evaporator is the greatest time- and money-saver a man can put in his sugar cabin.

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THE GRIMM MFG. CO. LIMITED,

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# **Aylmer Superior Lever** Force Pump

For Hand and Windmill use. Has His Eight, and Ten-inch Stroke. Ad-

Fig 36 represents us Superior Lever Pump, in-ted for hand and windmit use. Made in 134 and use. 2-inch.

> This style of lever and fulcrum has several advan-tages over the ordinary style; having longer strole the power is greater, mak-ing it work easier. The handle being wood, they are not so liable to break in frosty weather.

The base is adjustable admitting of top being mised or lowered to any poil tion desired.

The handle is drilled for three lengths of stroke. Siz, eight, and ten-inch stroke. This is readily converted into a Windmill Pump by the addition of a flat bar, which screws into the cross-

head on top. Cylinders capped indic require to be two inches longer to obtain same stroke.

Q

Fig 36.







2. I have a cultivator with grain and grass seeder attached, which I use to sow grain, but have never used the grass seeder. Do you think the grass seed would be covered too deep'y by the cultivator teeth by this method ? Also, if ground is in good condition, would you advise rolling or simply harrowing? 3. Would young maple trees from a hard-maple bush be all right to plant along roadways and lanes, or would they grow too tall and coarse to make good shade trees, as well as ornamental ? N. M. A.

Ans .-- 1. We do not think it would work. Considerable difficulty often arises in keeping a rope from kinking. If you were winding the cable over a windlass it would keep straight, but where it is necessary to draw it out at some length with horses, turn them around and bring them back to the barn each time, it would be impossible to handle it.

2. Where cultivating is done deeply, there is a danger of getting the grass seeds too deeply covered. Can you not turn the spouts fairly well back and harrow afterwards? If you could do so, it would be preferable to sow the seed ahead of a grain drill, but if you cannot do this, sow the seed as well back as possible behind the cultivator teeth and harrow afterwards. Roll and harrow afterwards.

3. Of the deciduous trees, there are few to be preferred to hard maple. They are excellent for such a purpase.



REGARDLESS of price or any other remedy known. It goes through and through both bone and tissue--it works inside, not out-side. And Produces a Cure That Withstande Every Test. No Scar or Loss of Hair. Horse can work as usual.

Why We Can Make a Contract to Cure.

Greenwood, Ind., March 10, 1913 Troy Chemical Co., Binghampton, N. Y. I have Cured the horse of bone spavin. I also recommended is to a neighbor who cured a bone spavin. Frank Stevens.

We Originated the plan of treating horses-Under Signed Contract to Return Money if Remedy Fails. You risk nothing by writing; costs nothing for advice and there will be no string to it.

wring: costs nothing for Advice and there will be string to it. OUR LATEST Save-The-Horse BOOK is our 18 Years Discoveries—Treating Every Kind of Ringbond —Thoropin—SPAVIN—and ALL—Shoulder, Knee-Ankle, Hoot and Tendon Disease—Tells How to Teat for Spavin; how to locate and treat 58 forms of LAMENESS—Illustrated. — But write and we will send our—BOOK— Sample Contract and Advice—ALL FREE4to (Horse Owners and Managers—only). Address: TROY CHEMICAL CO. 148 Van Horn St. - TORONTO, IONTO, Also Binghampton, N.Y. Druggists everywhere sell Save-the-Horse WITH CONTRACT, or we send by Parcel Post or Express paid.

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FEBRUARY 5, 1914



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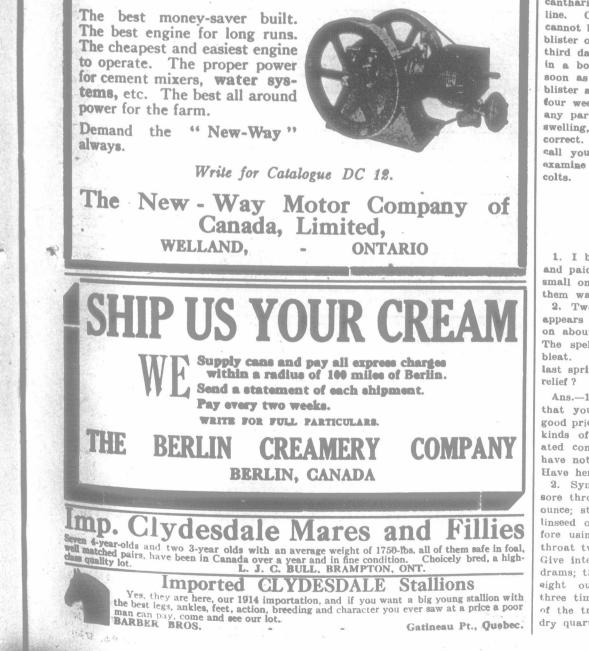
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Questions and Answers. Veterinary.

#### Unthrifty Pigs.

Pigs five weeks old are kept in box stall with cement floor and a wooden platform. They are fed oatmeal, milk and mangels. They do not eat well, and have humped backs. A. H. Ans .--- Give each one ounce Epsom salts. Feed a little shorts with the milk and oatmeal. and let them out every day for exercise. The principle trouble is want of exercise. V.

#### Wooden Tongue.

Heifer commenced to fail last summer, and has failed gradually ever since. An examination of the mouth revealed the tongue hard and thick. She salivates a great deal, and cannot eat well.

D. W. Ans .- This is a form of actinomycosis called "wooden tongue." Give her iodide of potassium three times daily. Commence with one-dram doses, and increase the dose by one-half dram daily until she refuses food and water, tears run from eyes, and the skin becomes scruffy. When any of these symptoms become well marked, cease giving the drug. Repeat treatment if necessary in two months. A recovery is doubtful. V.

#### Warts-Lameness.

1. Four of my yearlings have warts. They start as small tits and grow to the size of hen's eggs, and are rough and in sections. What causes them, and what will cure them ?

2. Horse has a swelling on back of fore leg, just above the fetlock. He has had this a year, and it causes lameness, which is getting worse. C.\* A. K.

Ans .--- 1. We cannot tell what causes warts. They appear without apparent cause. The daily application of butter of antimony, or other caustic, will eventually remove them, but in cases where they are as large as you describe, the better treatment is to dissect them off and dress the raw surfaces twice daily until healed with a five-per-cent. solution of carbolic acid.

2. This is probably a bursal enlargement, and very hard to treat successfully. Repeated blistering should give fair results. Get a blister made of 2 drams each of biniodide of mercury and Douglas' cantharides, mixed with 2 ounces vaseline. Clip the hair off. Tie so that he Egyptian Liniment cannot bite the part. Rub well with the on hand then may be the means of saving a valuable animal for you. If not only stops the bleeding at once, but keeps the wound clean and healthy and quickly heals it. Read what Mr. G. P. Ashbocker, Evan Mills, N. Y., says about it: "Egyptian Limment has made extraordin-any cure for me. blister once daily for two days. On the third day apply sweet oil and turn loose in a box stall. Oil every day, and as soon as the scale comes off, tie up and Mills, N. Y., says about it: "Egyptian Limiment has made entraordin-any cures for me. One of my horses get badly calked, and everyone said he would have the lockjaw. The wound gathered and broke, and there was a great hole between the hair and the horse. I used only Egyptian Limiment, and the horse's foot was soon sound and well. It made a permanent cure. In my estimation there is nothing equal to this Limiment for cuts or sores of any kind." 25c. at all dealers. Free sample on request. blister again, and after this blister four weeks all winter. You do not give any particulars about the nature of the swelling, hence my diagnosis may not be correct. I think it would be wise to call your veterinarian in and have him examine the horse, and operate upon the V. DOUGLAS & CO. Miscellaneous. Napance Ontario Chronic Coughs. ABSORBINE STOPS 1. I bought two cows from a breeder LAMENESS from a Bone Spavin, Ring Bone, and paid him his price, which was not a small one. About one year ago, one of Splint, Curb, Side Bone, or similar them was affected with a cough. trouble and gets horse going sound. 2. Two-year-old Leicester ewe has what Does not blister or remove tho appears to be a chronic cough. Comes hair and horse can be worked. Page 17 in pamphlet with each bottle tells how. \$2.00 a bottle delivered. on about five or six times in a day. The spells are so severe that she will bleat. She lost her lamb before time Horse Book 9 K free. ABSORBINE, JR., antiseptic liniment for last spring. What could I give her for mankind. Reduces Painful Swellings, En-W. F. R. mankind. Reduces Fainful Swellings, En-larged Glands, Goitre, Wens, Bruises, Vari-cose Veins, Varicosities, heals Old Sores. Allays Pain, Will tell you more if you write. \$1 and \$2 a bottle at dealers or delivered. Book "Evidence" free. Manufactured only by W.F. YOUNG, P.D.F. 255 Lymans Bidg., Heatreal, Can-Ans.-1. The only symptoms given are that you bought the cows and paid a good price for them. There are too many kinds of coughs, and too many associated conditions with each, which you have not stated, to allow us to advise. Shorthorns and Swine-Have Have her tested for tuberculosis. choice young bulls for sale; also cows and heifers of show material, some with calves at foot. Also 2. Symptoms very meagre. Probably sore throat. Mix oil of turpentine, one c heice Yorkshire sows. ANDREW GROFF, R. R. No. 1. Elora, Ontario ounce; strong aqua ammonia, one ounce; linseed oil, six ounces. Shake this be-BEL fore using, and rub some well into the throat twice daily for two or three days. Give internally: Chlorate of potash, four CHIMES AND PEALS MEMORIAL BELLS A SPECIALTY drams; tincture of iron, six drams; water, eight ounces. Give one tablespoonful FULLY WARRANTED three times daily, but remove the cause MCSHANE BELL FOUNDRY CO., of the trouble by putting the patient in BALTIMORE, Mp., U. S. A. dry quarters, free from drafts Established 1356

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You Can Do It While He Works.

We want to show you the' there isn't any affection that causes lameness in horses that can't be cured, no matter of how long standing. We want to send you our in-structive book, "Horse Sense" No. 8.



t describes all. And with the book we want to send you an expert's diagnosis of your horse's lameness. All this is absolutely tree. Simply mark the spot where swelling or lameness occurs on picture of horse, dip out and send to us telling how it affects the gait, how long animal has been lame and its age.

and its age. We absolutely guarantee Mack's \$1,000 Spavin Remedy to cure Spavin, Bone or Bog Spavin, Curb, Splint, Ringbone, Thoroughpin, Sprung Knee, Shoe Boli, Wind Puff, Weak, Sprained and Ruptured Tendons, Sweeny, Shoulder or Hip Lame-ness and every form of lameness affecting the horse. We have deposited One Thousand Dollars in the bank to back up our guaran-tee. Cures while he works. No scars, no t'emish, no loss of hair. "Your druggist will furnish you with Mack's \$1,000 Spavin Remedy. If he hasn't it in stock, write us. Price \$2.50 per bottle and worth it. Address-McKailor Drug Co., Binghampton, N. Y.

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The season of fcy roads and sudden heavy snowfalls is an anxious one for herscowners, because it is so easy for a sharpshod herse to cut himself seriously when floundering in the deep snow. A bottle of

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The safest, Best BLISTEE ever used. Takes the place of all insaments for mild or severe sotion. Removes all Bunches or Blemishes from Horses and Cattle, SUPERSFIDES ALL CAUTERS 7 OR FIRING. Appossible to produce sour or blemish Every bottle sold is warranted to give satisfaction Price \$1.50 per bottle. Sold by druggists, or sent by express, charges paid, with fail directions for its use. Send for description descenter. use, Send for descriptive circulars. e Lawrence-Williams Co., Toronto. Ont



Of all descriptions. We are the only firm in Great Britain who make this their sole business, and therefore offer advan-tages not obtained elsewhere. When our Mr. A. J. Hickman started this business seven years ago, he did not know a single foreign breeder. This year we have exported more stock to order than any other firm in Great Britain. This is a fact which talks. The frequency with which we buy stock from English breeders means that we can do business with them on more favourable terms than can be done by anyone else. No one should im. can be done by anyone else. No one should im-port draft horses, beef or dairy strains of cattle, or mutton breeds of sheep, without first getting full particulars from us. Highest references on application application.

5 Yearling Clydesdale Stallions 10 Young Holstein Bulls 1 Stallion (imp.) in dam, others by Baron's Pride, bulls got by King Fayne Segis Clothilde, a grandson of King Segis and Grace Fayne 2nd's Homestead, 35-fbs. butter in 7 days (worlds' record), and 2 other sire's dams in R.O.P. milking up to 8-fbs. per day, and 1000-fbs. in a year. Write, or better come and see them (a few Ponies). Manchester P.O. on G.T.R. Myrtle C.P.R. Bell 'Phone. R. M. HOLTBY

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#### NOTICE TO HORSE IMPORTERS **GERALD POWELL**, Commission Agent and Interpreter,

Nogent Le Rotrou, France, Will meet Importers at any port in France Belgium and assist them to buy Percherons. B

# THE FARMER'S ADVOCATE.

#### **Ouestions and Answers.** Miscellaneous.

#### Lightning Rods.

In an answer to J. E. C., in our issue of January 22nd, re lightning rods, it was stated that it was immaterial whether the cable is grounded at the corners or ends of the barn, whereas it should have read that it is immaterial whether the cable runs along the roof or not, but it should be grounded at two diagonal corners. This is for a metal roof. For a shingle roof, the cable should run along the peak and be grounded at the corners.

#### Pea Weevil. ÷

We saved seed from garden peas grown last summer. The peas were fine, and perfectly free from worms. The seed was placed in paper sacks as soon as shelled. Early in December the peas were found to be swarmed with little, black bugs, which seemed to germinate in the pea. They were picked over, and the good ones exposed to the fumes of formaldehyde. The bugs seem destroyed, but is it safe to use seeds ? Is there any known remedy for unclean peas? E. P.

Ans .- These are quite likely the adult form of the pea weevil, which were concealed in the pea in the form of a small worm when you gathered the seed. You have no doubt killed the insects with the fumes of formaldehyde, and they are safe to plant, unless you exposed them long enough to kill the germ. Carbon bisulphide, one ounce for 100 lbs. of seed, is the customary treatment. The fumes exterminate the weevil similar to the formaldehyde. A co-operative and universal treatment of the seed in the community is the only way to meet the pea weevil successfully.

#### Tuberculosis in Fowls.

Our hens have been dying this fall and winter, one every two or three weeks. They are real fat, but droop around for some time, get pale in the comb, have yellowish droppings, and after death, on being examined, their liver is found to be almost all decomposed. Killed a sick bird to-day, and the liver was all in little soft pieces. Would you kindly inform me what this disease may be, and how best to get rid of it, or if anything can be given in the feed or water to cure it? G. P. S.

Ans .- Your hens are quite likely dying from tuberculosis. The symptoms are plainly of that disease, with the exception that they usually "go light" or become emaciated before dying, and oftentimes they become lame. These must be extreme cases, for the liver is usually found studded with little, white tubercles. There is no remedy for a diseased bird. Prevention is the only expedient to insure freedom from further attacks. All diseased birds should be isolated at once, and the pens thoroughly cleaned and whitewashed with a mixture containing some carbolic acid. A very large percentage of the fowls of the country are now subjected to this disease, and prevention is the only means of forestalling future fatality in fowis.

the lowest.

**Percheron Stallions** 

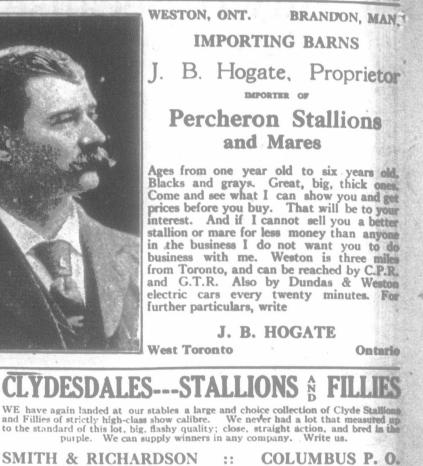
The premier show herd of Canada. All ages, blacks and greys, weights from 1800 to 2150 lbs. Write for the greatest illustrated horse catalogue in Canada

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We have a better bunch of stallions and mares in our barns at present than ever before, and are in a position to sell cheaper than any other man in the business. We raise our own feed, do our own buying and selling. No commission agents to share profits with. We have nice, big, stylind blacks and greys, with right kind of bone and feet and good, straight, true action. Every stallion guaranteed a foal getter. Every mare a breeder. List of prizes won: Sherbrooke and Ottawa on 16 head, 15 firsts, 6 seconds, 4 thirds, 3 fourths and 6 championships. This speaks stronger than words as to the quality of my stock. J. E. ARNOLD, Grenville, Que. Grenville is midway between Montreal and Ottawa C.P.R. and C.N.R. Three trains run daily from each of these cities.

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For Sale Two Imp. Clydesdale Stallions. Silver Strand, 9-year-old and Ballie Boy 3-year-old, both good color and first class animals and must be sold as I have sold my farm and going out of business. Address. James Paton, Proton Station, R. M. D. No. 1, Ont.

lease mention "The Fermer's Advesate."

#### Cement Blocks for Wall.

1. We intend building a barn this coming summer. Do you think a cementblock wall, eight inches thick, sufficient under a barn 40 x 60 ?

2. What length of posts is generally used on an eight-foot wall and a hip roof?

3. Is a hip roof as strong as the ordinary pitch roof?

4. Do you like a hip roof?

5. How many cement blocks are made from a yard of gravel?

6. What mixture of gravel and cement is generally used?

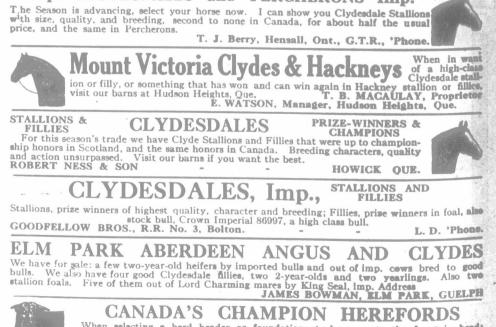
7. What kind of wail do you think best to put under a barn? N. M.

Ans.-1. Eight inches would be a light wall. A ten- or twelve-inch wall would be better.

2. Sixteen to eighteen feet.

 Yes. Properly built.
 Yes. It makes a roomier building. 5. Blocks 32 inches by 9 inches by 12 inches, about 12 or 13; 8-inch blocks, about 20

6. If good material is used, one to five. If material is poorer, one to four. 7. We would prefer a slop-wall cement, or a stone foundation, to the blocks. For a dry wall, a wooden one is best.





DED 1866

FEBRUARY 5, 1914

### THE FARMER'S ADVOCATE.

Dr. Maria Montessori



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# I'll Put Your Stock in a **Thriving Condition**—

# **Make the Ailing Ones Healthy** and Expel the

Worms Doctor of Veterinary Science Doctor of Medicine

U.S. Dispensatory **Medical Colleges** Noted Veterinarians 253

All certify the ingredients of Dr. Hess Stock Tonic to do just what I claim for them.

Nux Vomica. Digestive and Nerve Tonic. Quassia. Digestive Tonic and Worm Expeller. Sulphate of Iron. Dlood Builder and Worm Expeller. Sulphate of Soda. Lexative and Liver Tonic. Common Salt. Appetizer and Expels Worms. Epson Salts. Inspired. Nitrate of Potash. Stimulatos Kidneys. Charcoal. Prevents Noxious Gases. Fenugreek. Tonic and Aromatic.

The above is carefully compounded by Dr. Hess (M. D., D. V. S.), with just enough cereal meal to make a perfect mixture.

URGE every farmer to see to it right now that his work horses are put in condition for the hard work of spring and summer, so that when the sun shines your horses will be rid of their old coats, full of stamina and ready for business.

And don't overlook the spring pig crop-the mortgage lifters. Start them off free from disease-free from worms.

Be sure, also, that your milk cows are thoroughly conditioned for the long, heavy milking season, and that those with calf are vigorous and fit.

Remember, your stock have been cooped up for the last few months and have been on dry feed. As corn or oats, hay and fodder do not contain the laxatives and tonics so abundantly supplied in grass, your stock are pretty apt to be out of fix. Some of your animals are liable to be constipated, rough in hair, their legs may have become stocked, or they have dropsical swellings, but the most common disease of all. especially among hogs, is worms-worms.





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When in wan of a high-class Clydesdale stall-tallion or fillics, AY, Proprietor hts, Que.



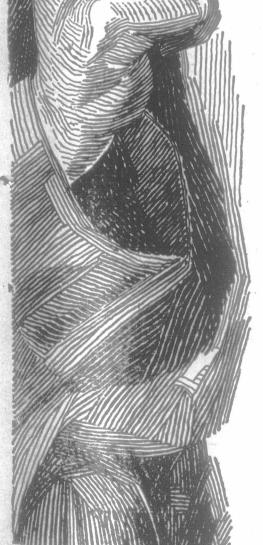
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ners in foal, also L. D. 'Phone.

CLYDES s bred to good ings. Also two ARK, GUELPH

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fountain head; erd of Canada HAWA, ONT



# Dr. Hess Stock Tonic A Splendid Conditioner—A Sure Worm Expeller

Being both a doctor of medicine and a doctor of veterinary science. I know exactly what farm stock need to get them in condition for spring.

In my left hand I hold the formula of Dr. Hess Stock Tonic-showing every ingredient. what each ingredient is for, and you will notice that the U.S. Dispensatory-one of the world's greatest authorities-certifies these ingredients to do as I claim.

Look these ingredients over-Tonics to improve the appetite-Blood Builders to enrich and tone up the blood-Laxatives to regulate the bowels and Vermifuges to expel worms. I want to emphasize one fact as forcefully as I know how: Dr. Hess Stock Tonic will not only rid your stock of worms, but will put them in a condition unfavorable to worm development.

Remember, it's the cow in the pink of condition that fills the milk pail—the horse that digests his dinner that pulls on the bit—the steer with an appetite that lavs on fat, and the hog that is well and free from worms that gets to be a 200pounder in 6 months.

So sure am I that Dr. Hess Stock Tonic will put your So sure am I that Dr. Hess Stock fonce win put you animals in a thriving condition, make the ailing ones healthy and expel worms, that I have authorized your dealer to supply you with enough for all your stock, and if it does not do as I claim, return the empty packages and get your money back.

Now, listen, Dr. Hess Stock Tonic is never sold by peddlers. but only by reliable dealers whom you know. I save you the peddler's salary and wagon and team expenses, as these prices prove: 25-lb. pail \$2.25; 100-lb. sack \$7.00. Smaller packages in proportion (duty paid).

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Makes Poultry Healthy Makes Hens Lay This is a splendid tonic—it tones up the dormant egg organs and compels each hen to lay regularly. It also helps chicks grow and shortons the moulting period. It is a sure preventive against Roup, Gapes and Cholera. Costs but a penny a day to feed 30 fowls. Sold on my liberal Money-Back Guarantee. 1½ lbs. 35c: § lbs. 85c: 25-lb. pail \$3.50 (duty paid).

### **Dr. Hess Instant Louse Killer**

Kills lice on poultry and all farm stock. Dust the hens and chicks with it. sprinkle it on the roosts, in the cracks; or, if you will keep it in the dust bath, the hens will distribute it. Also destroys bugs on cucumber, squash and melon vines, cabbage worms, slugs on rose bushes, etc. Comes in handy sifting-top can. 1 lb. 85c; 3 lbs. 85c (duty paid).

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Aberdeen-Angus Bulls & Helfers, In both young tulls and helfers we can supply first , and second state winners, nice thick good ones Mayflowers and Fair Ladys. (Geo. Davisit Sons R. R. No. 2, Erin, Alton Sta.

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SHORTHORNS. One Imp. Roan Lady bull for mile or enchange. Scottish Prince =60609 = (05372) got by Sittyton Choice (84822) he by Callynie Champion (78008) Calved 10th of April, 1905, quiet and reliable. Also 1 good bull call 12 months old. Also 1 3-year-old registered Clydes-dia stalling.

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**Glengow** Shorthorns

Five of the best bull calves ever in the

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a show proposition. A number

of choice heifers, all ages.

Write for prices.

Shorthorns

Fourteen good young bulls, from 6 to

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#### THE FARMER'S ADVOCATE.

as possible when the cap is put on, and to have them thoroughly sterilized in this way. With vegetables, it is often advisable to cook them on three different days in order to secure thorough sterilization.

Dr. Maria Montessori

8. When you sow alone, weeds are liable to choke out the seeding, and a good crop of grain can often be obtained along with a good stand by using from a bushel to a bushel and a half of barley. Wheat is also good to seed with.

#### Questions and Answers. Miscellaneous.

#### Tanning Skins with Hair On.

Will you please publish one of the best methods of how to tan muskrat and beaver skins with fur on. J. P. B.

Ans .- We give below three recipes for tanning such skins with the fur on :

1. Stretch the skin smoothly and tightly upon a board, hair side down, and tack it by the edges to its place. Scrape off the loose flesh and fat with a blunt knife, and work in chalk freely, with plenty of hard rubbing. When the chalk begins to powder and fall off, remove the skin from the board, rub in plenty of powdered alum, wrap up closely. and keep it in a dry place for a few days. By this means, it will be made pliable, and will retain the hair.

2. Soft water, 10 gallons; wheat bran. bushel: salt. 7 pounds; sulphuric actd. 21 pounds. Dissolve together, and place the skins in the solution. and allow them to remain 12 hours, then remove and clean them well, and again immerse 12 hours longer, if necessary. The skins may then he taken out. well washed and dried. They can be beaten soft, if desired.

8. Saltpetre, 2 parts, alum, 1 part. Mix. Sprinkle, uniformly, on the flesh side, roll up, and lay in a cool place. Spread it out to dry; scrape off the fat, and rub till pliable.

#### Oil Cake Meal vs. Turnips.

1. Kindly let me know the relative value of turnips at 20c. per bushel, and oil-cake meal at \$30 per ton for feeding beef cattle.

2. Also, should a ratepayer have a reduction in his assessment on his property after his barns and crops have been destroyed by fire? J. R.

Ans.-1. There is considerable difference in the amount of dry matter and feeding nutriments in a ton of turnips and a ton of oil-cake meal. One ton of turnips will contain 228 pounds of dry matter; the rest is moisture. A ton of oil-cake meal will contain 1,820 pounds of dry matter. Protein, carbohydrates, and fats, are the three nutriments in a fodder upon which its value is based. Following is a small table showing the contents of these three ingredients per ton in the two different feeds:



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### WE ALSO SELL



Royal Purple Cough Specific for cough and distemper. (Will dure any ordinary cough in four days). 50c, by mail 60c. Royal Purple Sweat Liniment for lameness, rheumatism, sprained tendons, etc. 50c, by mail 60c. Royal Purple Gall Cure, for scratches, harness scalds, open sores, etc. 25c and 50c, by mail 30c and 60c, by mail 30c and 60c a

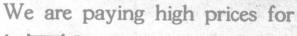
mail 60c. Evoral Purple Worm Specific for animals; removes the worms, also their larvae. 25c, by mail 30c. Evoral Purple Disinfectant, in 25c, 50c and Evoral Purple Disinfectant, in 25c, 50c and

## **TO STOCK AND POULTRY RAISERS**

Hibographed in six colors, showing farm utility birds in their natural colors. This is a book that should be in every farmer's possession. IT'S FREE, Write for your copy today.



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# OAKLAND " **47 SHORTHORNS** Bulls and females of No. 1 quality. Present offer-ing is three grand bulls, 11, 15 and 20 months respectively. Also a few females of milk strain. "Visitors say they find things as represented." JNO. ELDER & SON, HENSALL, ONTARIO Spring Valley Shorthorns A few of the best young bull prospects we ever had. They will please you. Will sell females too. Visit the herd; we think we can suit you. Particulars application KYLE BROS, R. R. No. 1, Drumbo, Ont. Telephone, Ayr Shorthorns For Sale s yearling bulls of the right kind, 2 high-class berd headers, 12 months, one from imp. cow, 4 bull calves, also young cows and heifers, some good milling strains. Stewart M. Graham, Lindsay, Ont. 1854 MAPLE LODGE STOCK FARM 1914 Shorthorns and Leicesters

Lines a most excellent lot of young rams for sale, mostly sired by imported Connaught Royal, Something very choice in young bulls. House one mile from Lucan Crossing G. T. Ry. A. W. SMITH, MAPLE LODGE, ONTARIO

SHORTHORNS FOR SALE

I have two extra roan bulls; fourteen and fifteen months old, one from Imp. dam. Also some helfers, all bred in the purple. Phone or write. Hugh Thomson, Box 556, St. Mary's, Ont.

Shorthorns "Trout Creek Wonder" at sumbers about 40 head. Heifers and bulls of the best quality for sale at reasonable prices. RR 2, Shedden THE MANOR SHORTHORNS AND LINCOLNS

Young bulls, also heifers, got by, and cows in calf by searing rams and 10 ram lambs by an imported ram, Inspection solicited. J. T. GIBSON. Denfield, Ont. have difficulty in our during this season, you will, no doubt, the succeeding year.

Carbo-Lbs. Lbs. protein. hydrates. Fats. Oil cake ... 650 714 48 16.2 20 4 Turnip .....

You will see by this table that it would require 32 tons of turnips to supply as much protein as one ton of oilcake meal. It would require 44 tons to supply as much carbohydrates as one ton of oil-cake meal, and it would require 12 tons of turnips to supply as much fat as one ton of oil-cake meal. There are about 33 bushels of turnips to the ton, and at 20c. a bushel this would be approximately \$6.60 a ton. From this, you can judge for yourself the relative value of these two different feeds. It is outstandingly in favor of the oil-cake meal, and although it is somewhat laxative in nature, yet a few turnips along with other feed, even if it does contain oil-cake meal, is very beneficial indeed. They should not be altogether dispensed with, but if you can sell turnips at 20c. a bushel and procure oil-cake meal at \$30 a ton, it is a good deal. It would be well, however, to consider that oilcake meal should not be fed in large quantities. Three or four pounds per day is a very safe ration for one mature animal.

2. You will have to take this matter before the Court of Revision. You might have difficulty in obtaining a reduction during this season, but out of iustic you will, no doubt, be able to do so for



63

#### Gossip.

BARBER BROS'. 1914 CLYDESDALE IMPORTATION.

Barber Bros., of Gatineau Point, Que., a short distance from Ottawa, have lately landed their 1914 importation of Clydesdale stallions. Barber Bros. have the true conception of the term "draft horse." They never import pony Clydesdales, and this lot will still enhance their reputation as importers of the very best kind of big draft horses. Draft character from the general coptour of their bodies to the bottom of their feet is predominant in all of them, and this, coupled with their strong flat. flinty, good-wearing quality of bone, makes them one of the best importations of the ideal in draft horses landed in recent years. The few mentioned will give some idea. of the great breeding they carry. Loudounhill Lad 15432 is a bay three-yearold, by the Cawdor Cup Champion, Revelanta; Solon 15426 is another bay threeyear-old, by the Royal first-prize horse, Ryecroft; Strathtay 15427 is a bay rising three, by the Invernie and Kilmarnock champion, Mendel. Another bay, rising three, is Gladiator 15425, by the renowned champion, Everlasting. These mentioned show the care exercised by the Messrs. Barber in the matter of breeding, and the pedigrees all through show the blood of Scotland's most famous sires, and this is the case with the entire lot, from yearlings up. All are for sale, and Barber Bros. are satisfied with a living profit.

#### JAMES BENNING'S AYRSHIRES.

Without any blow or shouting from housetops, James Benning, of Williamstown, in Glengarry Co., a few miles from Lancaster Station, has in his large herd of Ayrshire cattle, many of the most profitable and heavy milk producers in this country. He works along with his cattle in his own quiet way, making a careful daily note of the yield of all his cows and heifers, and his system of culling out the unprofitables is as unyielding as adamant. He has been doing this for many years, and the splendid uniformity of show-ring form, and the big, well-balanced udders of the many cows and heifers, show the herd to have reached a high standard. A remarkable uniformity of trueness in their lines and ideality in type is conspicuously manifest in the daughters of the present stock bull, Imp. Lessnessock Comet, of which there are 22 due to freshen in the fall to a grandson of Imp. Cross of Knockdown, and out of a 45-lb.-a-day dam. with a butter-fat test of 4.02 per cent. The past summer the butter-fat test of the 22 in milk was 4.06 per cent., and cows g to 60 lbs. a day, and two-year-old heifers 41 lbs. a day. Anything in females, heifers, or mature cows, is for sale. Among the several young bulls, four of which are old enough for service, sired by the stock bull, is one out of Torrs Coney 2nd (imp.), whose record is 60 lbs. of 4.2 per cent. milk a day. Others are of the famous old big-producing Floss strain. Write your wants.

# MILKER **Easy to Clean**

SHARP

**Easy to Keep Clean** 

"They are easy to take care of," writes one SHARPLES MILKER user, whose name we will be glad to furnish on request. "When we get through milking we milk a pail of water through them, the machine is cleansed in water about scalding. then placed in a solution of lime water.

"The machines do not hurt the cows. We have used them eighteen months. To anyone in the dairy business I would recommend them. We are milking around seventy cows daily in an hour and ten minutes. We use five units.

"One man attends to the milkers and another man strips the cows. The cows like it better than hand milking and it does away with the labor problem. I had to keep eight and nine men on my farm, but after pay day we might have one or two to do the milking. It just made things hum for the foreman and one or two men that would be regularly on the job. Now we are

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CREAM PARATOR SOLID PROPOSITION, to 0 fully guaranteed, a nov, 1 made easy running, perfect uning separator for 511.95, mo warm or cold mills; mak-beary or light cream.

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Ninety-siz pages, durably bound, indeer and illustrated. Covers over one hander reterinary subjects. Read this book befor you treat any kind of lameness in horses. FLEMING BROS, Chemista, 75 Church Street, Torento, Out

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1913 copyrighted edition now ready. Most complete work on this sub-ject published. Used as text book oy m a n y Agricultural Colleges. Gives the facts about Modern Silage

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under no obligations to them. Everything works smoothly and there is no friction among the men picking out the easy milkers and all those stunts."

The SHARPLES MILKER now is being used in dairies of from 15 to 700 cows. Built sturdily, its operation is alsolutely reliable.

Ask the editor of any national authoritative dairying paper what he thinks of the SHARPLES MILKER.

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class herd headers 7 to 10 months and females all ages of choicest breeding. Former sires:—Joy of Morning (Imp.) =32070 = and Benachie (Imp.) =69954 =. Present stock bull Royal Brace (Imp.) ering hv = 55038 =.

GEO. D. FLETCHER, **R. R. No. 2, Erin, Ont.** Erin Erin Sta. C.P.R.

LOCHABAR STOCK FARM

Choice Dairy Shorthorns, Leicester Sheep, and Berkshire Pigs. I am offering males and females of different ages, same breeding as won for me at Guelph, London and other fairs. The above stock are mostly the get of imported sires and dams Correspondence solicited. Prices reasonable. Long distance 'phone in connection. distance 'phone in connection.

A. GRAHAM, R. R. No. 3, Wyoming, Ont. hipping Stn., - Wanstead, G. T. R. Shipping Stn.,

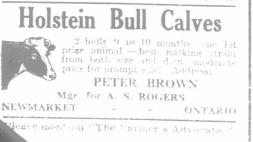
**WOODHOLME SHORTHORNS** 

I have for sale a most attractive offer-ing in young bulls and young females, pure Scotch, breeding unsurpassed, the low thick kind. Write me your the low thick kind. Write me wants. G. M. FORSYTH, North Claremont, Ont

## **Maple Grove Holsteins**

Present offering: a few bulls.fit for service, sired by the great King Lyons Hengerveld, who is beyond doubt the richest butter and milk bred bull of the breed in Canada. These bulls are out of high testing R.O.M. cows and heifers, and individually are unsurpassed. Also a few heifers just freshened. If you want the best write me for prices and particulars.

H. BOLLERT, R.R. No. 1, Tavistock, Ont.



#### Trade Topic.

The convention of Brandram-Henderson Limited, makers of Brandram's B.-H. Genuine White Lead, and B. - H. "English" Paints, which are advertised in this paper, was held at Halifax at the end of 1912, and in the previous year it was held at Montreal. In order to give the Eastern and Western men a better chance to fraternize, however, the last one was held at Toronto. It opened on the morning of the 18th of December, at the Queen's Hotel, and two whole days were given to conferences and discussions on various subjects connected with the selling of paints and varnishes. Brandram-Henderson Limited, are makers and d'stributors in Canada of the famous B.-H. Genuine White Lead. The Company's plant at Montreal in which this lead is corroded, is one of the finest of its kind in the world, and was built at a cost of \$300,000. It is with the product of this plant that Brandram - Henderson "Engish" Pain's are made at the Company's paint factories in Montreal and Halifax. They have sales branches at St. John, Toronto, and Winnipeg, also a distribut-



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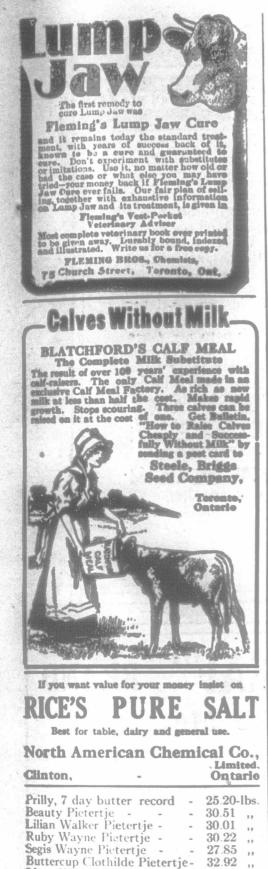
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# THE FARMER'S ADVOCATE.

### Gossip.

Dr. Maria Montessori

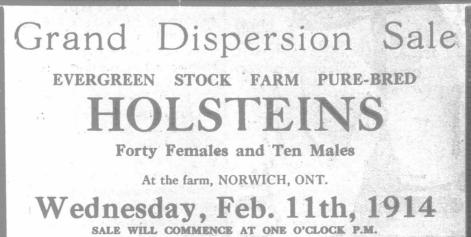
LAST CALL FOR A. D. HULET'S HOL-STEIN SALE.

The place is Norwich, Ont., in Oxford Co., and the date. Wednesday, February 11, 1914, and the occasion the complete dispersion of the high-class show and producing herd of Holstein cattle owned by A. E. Hulet, of Norwich, the chance of a lifetime, and the opportunity unprecedented of purchasing at auction-sale prices the cream of Canada in the world popular black and white dairy cattle. This should be the sale of the century, for the quality is there, and they will surely be sold, so don't let any suspicions keep you away if you want them.

H. F. PATTERSON'S HOLSTEIN SALE Another big sale of Holsteins of decidedly more than ordinary interest, owing to the superior quality of the animals to be sold, will be held on Thursday, March 12th, the property of H. F. Patterson, R. R. No. 4, Paris, Ont. Mr. Patterson has rented his farm for a term of years, and on the above date will hold a complete and unreserved auction sale of his entire herd of fifty head of R. O. M., R. O. P., and prizewinning Holsteins. Forty-five females and five bulls will be sold. The sale will be held at the farm, five miles from the city of Brantford, but on the day of the sale all trains from Brantford, Toronto, or Harrisburg, will stop at Alford Junction Station, threequarters of a mile from the farm, where conveyances will meet every train. In following issues will appear a short resume of the merits of the animals to be sold, but for full particulars write Mr. Patterson to the above address for a catalogue.

### Trade Topic.

EXPLOSIVES FOR AGRICULTURAL PURPOSES .- Explosives for agricultural purposes are now being used very extensively throughout Canada. The modern farmer realizes their benefit, and is putting them to use for clearing land, tree-planting, and ditching Stumps and boulders can be easily and quickly removed by their aid, and fields that heretofore were of little or no use, are now bearing splendid crops, due to this new and powerful agency. Explosive manufacturers in Canada are now making an explosive particularly adapted to the agricultural trade, called stumping powder. It is less dangerous to handle than dynamite, and more effective for this lass of work. Stumps of a diameter of two feet can be entirely raised out of the ground, and split in several pieces, for an average cost of 35c. Boulders weighing up to two tons can be broken for approximately the same cost. These figures are ridiculously small compared to the cost of clearing land by the antiquated method, and the up-to-date farmer now realizes that when he can clear his land so easily with explosives, he cannot afford to have idle or waste lands on his farm. Ditches of an average depth of 31 feet. and 4 feet to 6 feet wide, can be made by explosives at a cost of 90c. per rod. One man can easi'y blow 25 rods of ditch in a day. Swampy land can cften be drained by exploding shots of stumping powder in holes drilled perpendicularly to a depth till the impervious hard-pan is reached; this has the effect of shattering the hard-pan and allowing the surface water to drain through. It is a well-known fact that trees planted in holes made with explosives will thrive better than when planted in spade - dug holes. The earth is entirely pulverized, and allows the tender roots to immediately expand in all directions in search of valuable plant-food; they are not cramped up and the growth stunted until they become sufficiently strong to force their way through the hard earth. Enterprising explosive companies are now sending demonstrators through the country, demonstrating the various uses to which explosives can be put to on the farm. They also issue very neat and explicit literature on the subject, and we feel it will be of interest to all our readers to attend one of these demonstrations or write the explosive companies for booklets.



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This is the first time in the history of Holsteins in Canada that a prizewinning herd such as we have was ever offered at public auction. This herd in 1913 won nearly \$1,500 in cash prizes, besides two gold medals and several diplomas. Every animal in the herd is a good individual. Every cow is a first-class producer and a regular breeder. We haven't done much testing, but we have cows with 7-day records up to 25 lbs. butter, 3-year-olds up to 221/2 lbs., and 2-year-olds up to 17 lbs. The cattle, without a single exception, are all in a healthy, thrifty condition and are sure to make good.

Among the lot are: One yearling heifer (bred), and two bulls nearly ready for service, sired by a son of the new Canadian champion cow, May Echo Sylvia (over 34 lbs. butter 7 days); two daughters, two granddaughters and three grandsons of Madame Posch Pauline, 101.3 lbs. milk one day, 660 lbs. seven days and 2,752 lbs. in 30 days; 26.74 lbs. butter seven days, 108.45 lbs. 30 days, at 4 years of age; six daughters and four sons of Prince Abbekerk Mercena, grand champion bull at Toronto and Ottawa, 1913.

Don't miss this sale, you may never have another opportunity of securing your choice of so many good Holsteins. Everything offered will be sold to the highest bidder.

COL. WELBY ALMAS, Brantford, Ont. MAJOR E. R. ALMAS, Norwich, Ont. Auctioneers. Norwich, Ont., Sec. of Sale CATALOGUES FROM A. E. HULET Norwich, Ontario 50 R.O.M. Holsteins, R.O.P. Holsteins 50 BY AUCTION Having rented his Farm Mr. H. F. Patterson, R.R. No. 4, Paris, Ont., will, at his farm on -Thursday, March 12th, 1914

hold a complete dispersion sale of his entire herd of 50 R.O.M. and R.O.P.



UR, Manager urg, Que.



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These are the 3.405 Champion Generations of the

Mary Wayne Pietertje -

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HOLSTEIN HERD Buy a son of King Segis Walker from daughters of Pontiac Korndyke and get connected with this family.

A. A. FAREWELL :: Oshawa, Ont.

# Woodbine Holsteins

Young bulls and bull calves, sired by Duke Beauty Pietertje; sire's dam's record 32.52 lbs. butter, and his two grand-dams are each 30-lb. cows, with 30-lb. daughter, with 30-lb. granddaugher. Three gen-erations of 30-lb. cows. If you want a bull that will prove his value as a sire, write A. FENNEDY & CONS B. B. May 2 Berls Ont

A. KENNEDY & SONS, R.R. No. 2, Paris,Ont. Stations: Ayr. C. P. R.; Paris, G. T. R.

HOLSTEINS & YORKSHIRES Minster Farm offers bull fit for service from a data of a 4-year-old Heifer with R.O.P. record of (4.753-lb. and 540-lbs. butter, and Lakeview Burke Farne whose dam and sire's dam average (3.14-lbs. of butter 7 days. For extended pedigree wite: Richard Honey & Sons, Brickley, Ont.

Holsteins, Young herd headers. Just now beaders up to 15 mos. of age, closely related to our foronto Dairy Test Champion, and sired by the richly bred, Imperial Pauline De Kol. W. Walker & Sons, Utica P. O. Manchester Station. The Maples Holstein Herd Headed by Prince Aaggie Mechthilde. Present offering: Bull calves born after Sept. 1st, 1913. All sized by Prince Aaggie Mechthilde and from Record of Merit dams. Prices reasonable. R. R. No. 5, Ingersoll, Ontario

Ingersoll, Ontario

For Sale-Reg. Holsteins-A few choice young cows, due to calve March wated stock three yearling heifers from officially-W. A. BRYANT, Strathroy, Ont. R.R. No. 3.

Please mention "The Farmer's Advocate."

, 45 females and 5 bulls, ever Holsteins one a high-class proposition Doth as individuals and as producers and all in the finest condition.

R.O.M. Records from 18 to 23-lbs., Mature 3 - year - olds up to 21.43-lbs.; 2-year-olds up to 14.62 - lbs. R.O.P. records from 10,776-lbs. for 2-yearolds, up to 21,556-lbs. for mature cows, the latter a private test, many of them with



B.F. tests, official, over 4% and up to 95, 8-oz. of milk in one day; among them being the 2nd prize cow at the Guelph Dairy Test, both in standing and pro-duction; also the herd won 1st prize for largest quantity cream

delivered to the Brant factory from any 15 cows. On day of sale all trains from any direction will stop at Alford Jc. Station, where conveyances will be in waiting.

TERMS: Cash, or 7 months at 7%.

WELBY ALMAS, Brantford, Ont., Auctioneer. For Catalogue, write: H. F. Patterson, R.R. No. 4, Paris, Ont.

# airview Farms H

Offers for sale: A son of Rag Apple Korndyke 8th out of a daughter of Pontiac Korndyke with a record of 27.72 lbs. in 7 days, averaging 4½% fat. Grand dam has a record of 29 lbs. Calf is nearly ready for service. Write me for description and breeding.

E. H. DOLLAR,

HEUVELTON, N. Y. (near Prescott, Ont)

HOLSTEINS wour pick. Also one from 25 lb. Son of Homestead Girl DeKol Sarcastic Lad. Dam 20 lb. 4-year-old, Price \$65.00.

F. HAMILTON, HAMILTON FARMS, ST. CATHARINES, ONT.

Sunnybrook Yorkshires and Holsteins breeding age, sired by our champion boar Eldon Duke (32228), and out of prizewinning sows. Also richly-bred Holstein cattle of all ages. WM. MANNING & SONS, WOODVILLE, ONTARIO, Grasshill Sta., C.P.R. and G.T.R.

Gossip.

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CLYDESDALES AND HACKNEYS AT MOUNT VICTORIA FARM.

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Buy the Battery that's

**Built for Business** 

Costs No More-Lasts Longer Columbia Patented Batteries have

been doing good work for a quarter century. They're just right for your gas engine, bell, telephone, tractor, barn lights or auto. Used and sold all over the world. Easy to buy.

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Our specialty is CANADIAN RAW FURS: Write for our free price list. We pay all mail and express charges. Remit same day as goods received. Hold shipments separate when requested. Prepay charges for returning furs if valuation is not satisfactory. We do not buy from dealers, but from trappers only.

HALLMAN FUR CO., Teresto Ontario

& HAMPSHIRES

Oldest established flock in America. Our present offering is a few superior Oxford ewe lambs and ram lambs.

Alloway Lodge Stock Farm

Aberdeen Angus Cattle

Southdown Sheep

**Collie Dogs** 

A few heifers and young cows in calf to the Chicago

FARNHAM

HENRY ARKELL & SON,

en. Manager, 4 years with John E. J. Hagen, Treas, 11 years with ham; J. L. Jowell, Buyer, years a Hallam; G. Hagen, Socy., 7 years

**OXFORDS** 

Arkell, Ont.

The high-class character of the horsebreeding end of the famous farm, Mount Victoria, at Hudson Heights, Que., owned by T. B. McCauley, of Montreal, is largely attributed to the skilfal and professional management of Dr. E. Watson, V. S., whose several years' services as chief manager have made a fame for Mount Victoria Farm. In past years, special attention was paid to the breeding of Clydesdales, and to that end there were purchased at long prices the noted breeding and prize horses, Neatherlea (imp.) 8324, by the four-times winner of first prize at the Highland, Pride of Blacon, and the noted prizewinning son of his, Lord Aberdeen (imp.) 8495. To these was added the big, stylish, noted breeding horse, Lord Mac (imp.) 6015, a bay, sired by the H. & A. S. first prize, Montrave Mac, dam by the renowned Sir Everard, grandam by the £3,000 Prince of Albion. As a sire of big prizewinning draft horses he has few equals. He is for sale, as particular attention is now being centered on the breeding of Hackneys and Shetland ponies. Among the Clydesdale mares and fillies are such big, well-bred ones as the bay three-year-old, Miss Sally (imp.) 29212, by the Royal champion, Diploma, dam by the noted King of Kyle. An-other bay three-year-old is Ida (imp.) 29211, by the noted prize and breeding horse, Baron Mitchell. A half-sister to her, by the same sire, is a bay two-yearold, and her mate, also two years old, is by Armadale. They are an extra big pair, and look like reaching near a ton. In younger ones is a particularly good yearling stallion, by Lord Aberdeen, dam by Baron's Pride, and grandam by Macgregor. This is one of the good yearlings that will surely make his mark. A big, nice yearling filly, is by Netherlea, dam by Royal Fashion, grandam by Top Gallant. It is doubtful if anywhere else in Can-

ada there is so aristocratic a breeding foundation for Hackney ponies as here. The stallion in service is the brown, sensational, all - around acting, Glendermott Wildfire (imp.) 709. He is a full brother to the noted champion of America, Melvalley Masterpiece, sired by Fireboy, and out of Berkeley Frimula, by Recruit. Among the recently-imported brood mares is the great Peggy Surefour (imp.) 942, dam of four champion stallions and four champion harness horses. She is sired by Dane Royal, dam Peggy Sure

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winning herd bull, for sale as well as some very strong young bulls. Four very promising puppies from imported stock are also offered. ROBT. McEWEN, Byron, Ont., Near London OXFORD DOWN SHEEP	sired by Dane Royal, dam Peggy Sure, by Model. She has a filly foal by Torchfire. Kinderton Gem (imp.) 943, a brown, by Berkeley Model, is another famous brood mare. She has a filly foal by Littlefire. In this pair of mares	MILLS AT TORONTO AND MONTREAL.
We have the champion Oxford Flock of America. Winners at Chicago International, Toronto, Lon- don, Winnipeg, Regina, Brandon and Saskatoon Fairs. Present offering: 100 ram and ewe lambs, and 50 yearling ewes by imported rams. Consult us before buying.	land, and the most noted brood mares in Eng- land, and the most noted that ever left that country. Julia Jones (imp.) 931 is a chestnut, a full sister to the cham- pion, Fireboy, sired by Julius Conce	have been bred to choice imp. rams. One crop of lambs should nearly pay for them at prices saked Also some good ewe lambs abso low price. Charemont Stn. C.P.R., 3 miles. JOHN MILLER, Brougham, Ont. Pickering Stn. G.T.R., 7 miles.
Peter Arkell & Sons, Teeswater, Ont. Tower Farm Oxford Downs-We are of- fering a choice lot of ram and swe lambe from our imported rams; also a few one- and two-shear ewes dred to our imported Hobbs man winner at the Royal Show. E. Barbour. Er n. Ont P.O. and station. L D Phone	and, dam Luxham Fanny, by Gem. This mare has won five first prizes, and is in foal to Littlefire. Who's Who (imp.) 941 is a chestnut that was three times first at the London Hackney Show, sired by Julius Cæsar 2nd dam Perger	NEW CASTLE TAMWORTHS, SHORTHORNS AND CLYDESDALES full of imported blood and show ring quality; I think the best I ever bred, also younger ence of both sexes. A few nice bulls 4 to 8 months old. Heifers carrying their first calves and others with calves at foot, of splendid milking strains. Two or three nice fillies and mares that are bred to imp. stallions, all registered, prices right. A. A. COLWILL, Newcastle, Ont. LD. 'Phone
Tamworths Sows bred for spring farrow, \$50 each; Boars \$5 to \$80 Registered. Write for particulars JOHN W. TCDD, R. R. No. 1, - CORINTH, ONTARIO	boy. Gumergate Lucy (imp.) 940 is a half-sister, being sired by Julius Cæsar 2nd, dam by Monte Christo. She is in foal to Fireboy. Gumergate Spowdelse	CHAMPION HAMPSHIRE SWINE We have the Champion Herd of Canada. We import more Hogs every year than all other combined; at all times we can supply either sex of any age desired. Write us. HASTINGS BROS., Crosshill P.O., Newton G. T. R., Linwood G. P. R
Cloverdale Large English Berkshires No matter what your needs in Berkshires may be see Lang the live Berkshire man. He is always prepared to furnish anything in Berkshires. Write or come and inspect. C. J. LANG, Hampton, Ont., Durham Co.	Cæsar. She is in foal to Fireboy. Glenavon Victoria (imp.), by the great Torchfire, is a brown two-year-old that won second in London in a class of of	Gramandyne Yorkshires & Tamworths Gramandyne Stock Farm supply Yorkshires and Tamworths, either sex, any age, bred from prize-winners, none better. Long Distance 'Phone, 3874 Ottawa.
Tamworths—I have two choice lots of sows, 8 months old, that are bred to an extra good boar. Also a few boars large enough for service. HERBERT GERMAN, St. George, Ont. MAPLE LEAF BERKSHIRES	A half-sister, by the same size, is the bay yearling, Ardimersay Flame. Noth- ing need be said as to the quality of the noted champion stallion, Christopher North (imp.), and the famous champion mare, Ophelia's Heirers (imp.)	at reasonable prices. All breeding stock imported, or from imported stock from the best British herds. Write or call H J. DAVIS, Weodstock, Ont.
for sale at reasonable prices, boars fit for service, also young pigs ready to wean; boars and sows 3 and 4 months old, bred from imported stock. Satisfaction guaranteed. J. Lawrence. Woodstock, Ont. R. R. S		Morriston Shorthorns and Tamworths herds of England. Have two choice young bulls for sale 10 months old, out of large, deep-milking cows and also some choice cows. Tamworths both sexes. CHAS. CURRIE, Morriston, Ont. C. P. R. and G. T. R. Duroc Jersey Swine—Twenty-five sow bred for fall farrow: a few boars ready for service; also one Jersey bull 11 months, and two bulls, 6 months old, out of high-producing dams. MacCampbell & Sons, Northwood, Ont.
Yorkshire Sows Stock, weight about 300-lbs. GEO. D. FLETCHER, R.R. No 2., Erin, Ont. Erip Sta., C.P.R.	merit by Mr. McCauley. In service is the Edinborough and Toronto champion stal- lion, Silver Star (imp.), the whole mak- ing a selection of breeding stock un- equalied on the continent.	From our recent importation of sows, together with the stock boar Suddon Torredor, we can supply select breeding stock, all ages. Satisfaction and safe delivery guaranted on Brantford and Hamilton Radial.
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Read these letters. Every one comes from a user - one who knows, because he has given Peerless Fence the supreme test of time. Every one bespeaks absolute satisfaction - the kind of satisfaction that you can enjoy.

Middlemias, Ont., January 8, 1913. be Banwell-Horie Fence Co., Hamilton. Gentlemen:--I have been selling fence for the past seven years and that time have represented several different firms. It gives me essure to say that I took the agency for your fencing for 1912 and ye sold in that one year more fence than in the other six years are your against Peerless innce. Different from more fence.

t from most fences it stretches flat and all wires of even e lock is tight and strong and the quality of the wire is

very little other fence used in this district and com-a word of the past to the agent for Peerless fencing. Xours truly, J. A. McDONALD

#### **Perfectly Satisfactory In Every Way**

Welland, Canada, January 14, 1913, Banwell Hoxie, Wire Fence Co., Hamilton, Ont.

Withstands Run-away Automobile Morrisburg, Ont., January 14, 1913.

Banwell Hoxie Wire Fence Co., Hamilton, Ont. Dear Bir: --Three years ago I sold some Peerless fence to a j which he erected along the King's highway This summer a ma two other passengers was coming along the road in a five passenger mobile when something went wrong with his steering apparatus ar lost control of the car, running full tilt into the fence. The bounded back from the fence, struck the ditch, then on the reby went right ever the fence into the farmer's field. The fence remai intact-not a single wire was broken. Yours truly, O. S. COLQUHOUN

Can Find No Rust After Seven Years

Aultsville, Canada, January 10, 1913. Aultsville, Canada, January 10, 1913. Banwell Hoxie Wire Fence Co., Hamilton, Ont. Gentlemen: — I have been selling Peerless Fencing for all seven years and have taken very careful notice to see if the were any rusted but fail to find any. My customers come back to me every year showing that they are satisfied with Peerless Fencing. I honestly say that as long as I can get the Peerless Fencing and such good and honest treat-ment from the Company I would not think of hand-ling any other fence but Peerless. I remain,



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THE stoutest advocates of Poultry-Raising on the farm are the pro gressive farmers who have investigated the Peerless Way. These men are alive to the fact that Canada does not produce one third of the poultry and eggs consumed in this country, and that handsome profits go across the border to the American farmer who is called upon to supply the shortage.

You, Mr. Farmer, can have this profit, You, Mr. Parmer, can have this profit, plus the amount spent in Customs duties and long freight hauls import-ing eggs and poultry from the States, and you will always have an eager market waiting to buy up all the poul-try and eggs you can raise.

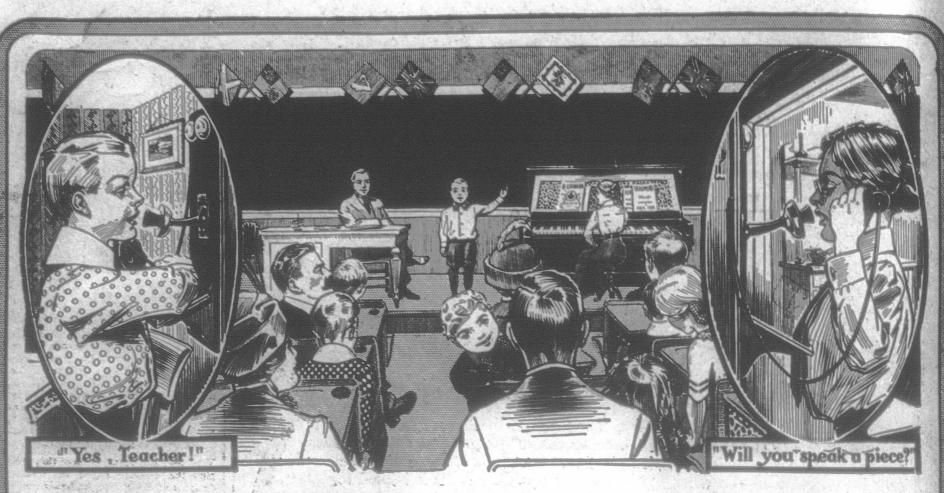
Read what this British Columbia farmer says:

Greenwood, B.C., Dec. 1, 1913. "I am pleased to report a good sease outhe past summer with the poultry. pullets are just commencing to la Eggs hatched well and I raised speace Eggs hatched well and I raised practi-cally all in the Brooder and only lost (1). chick out of 500 hatched. I sold 20 doaen baby chicks and am keeping over 150 pullets, as it is the egg trade that I am marking the sold sold that I am

last September, eggs h



FEBRUARY, 5, 1914



# To better Educate your Children \_\_you should have a telephone

The position your children will occupy, when they grow up, depends almost entirely on their early training.

Your sons may be professional men. They may be business men. Your daughters may go to the city. But whatever walk in life they choose, their success or failure will be determined by their early training and their home surroundings. Your sons may be farmers. Make them business farmers!

You want your sons and daughters to be bigger, broader, better educated men and women than their parents are. Of course you do! All parents do! Do your part to make them so. Give them every advantage of education and refinement within your power.

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