Announcement of the Winners in the Dairy Farms' Competition

Vol. XXVIII No. 6

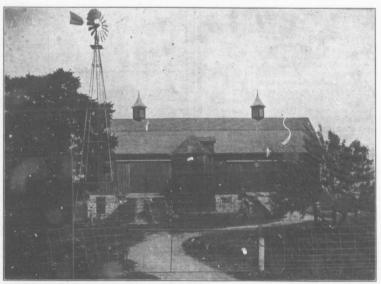
\$1.00 A YEAR

TARMING WORLD

PETERBORO, ONT.

FEBRUARY 26,

1908



The Barn of Mr. George McKenzie, Thornhill, Ont., the Winner of the One Hundred Dollar Prize in the Dairy Farms' Competition. (See Page 3)

DEVOTED TO

BETTER FARMING AND
GANADIAN GOUNTRY LIFE



WE ALL MAKE MISTAKES

Some mistakes are only of minor importance while others effect us as long as we live.

The greatest mistake dairymen are apt to make is to buy a Cream Separator and continue to use it even if it does not give satisfaction. Did you ever stop to think how small losses amount up to large ones. A loss of one cent a cow each day in the year means a loss to you of \$3.65; with 10 cows the loss is \$36.50; with 20 cows your loss would be \$73.00 each year. It is a matter of great importance to you that your Separator should be a clean skimmer and as perfect in mechanical construction as man can make it. The SELF-BALANCING DEVICE with which

The Simplex Link-Blade Separators

are equipped makes the loss of cream in the skimming almost impossible. You will make no mistake in buying one of these machines. Our illustrated booklet is sent free on request-it's worth reading.

D. Derbyshire & Company

Head Office and Works: BROCKVILLE, ONT.

Branches: PETERBOROUGH, ONT.

MONTREAL and QUEBEC, P.O.



Work the Farm Harder

"Soil conditions and crop rotation" formed the topic of an address delivered by Mr. J. H. Grisdale, of the Experimental Farm, Ottawa, at the recent Dairymen's Convention at Huntingdon, Que. He said that farmers must gather all the information mers must gather all the information possible concerning their business and then make use of it. If they did not, they could not make their farms produce more and unless they could make their farms produce more they would not have the stuff to feed their cows to make them give better returns. The average farm was not producing nearly what it should, simply the best systems of cultivation. Mr. Grisdale contrasted the returns from the grass farm with its \$3 to \$4 an acre, with the grain farm givin \$7 to \$12. the grass farm with its \$3 to \$4 an acre, with the grain farm giving \$7 to \$12 an acre, and the dairy farm with its returns of \$30 an acre and up per annum, all done with the employment of more help and the producing of the producis that have the highest food value at the least decrease of soil fertility. This was done only by a String of the producing of the producing of the producing of the producing the string of th

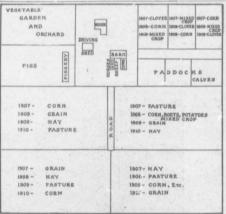
len from over \$6,000,000 in 1901, to \$86,000, in 1906, due to the vastly increasing supplies from Russia, and other European countries.

European exporters of eggs mark.

European exporters of eggs mark each egg with the date of laying and also as a key to the farm from which event of comi_aints about the quality or condition of the eggs, inquiries can easily be instituted at the original source, and, if necessary, compensation recovered. This system appeals to the retailer in Great Britain, and might be applied in Canada in supplying eggs to the local market.

A Young Hustler from British Columbia

Columbia
We print herevith part of a letter received from Master Ray E. Wells, Sardis P. O., Chilliwack, B. O. It shows what a boy can d-, hoth for himself, and The Canadian Dairyman and Farming World.
"I have been trying to secure a club of 30 new subscribers to the Canadian Dairyman and Farming World, so as to secure and Farming World, so as to secure a purebred Ayrshire call, but I am only 18 years old, shangoling to canadian base of the secure a purebred Ayrshire call, but I am only 18 years old, shangoling to canadian base to not have much time to canadian base of the secure of



MR. GRISDALE'S CROP ROTATION SYSTEM

The division of a farm as it would look under hit. Orisidale's system, is shown in the above cut. In the upper right hand corner is the portion set aside for soiling crops and or which, a three year rotation is followed. The lower half of the diagram shows the four division of the farm, on which the four year rotation is followed. All farms, of course, could not be divided exactly like this one. The system of rotation here shown, however, it applicable to any farm.

Mr. Grisdale considered pasture an expensive way of feeding cattle in summer . Silage was the best summer food, but if that could not be had, then summer soiling must be resorted then summer soiling must be resorted to in order that the pasturage might be supplemented with some forage crop. Most of our farmers attempted to farm too cheaply, with the result that the cheap farmer made from \$3 to \$5 an acre, while the expensive (vs. called) farmer made from \$20 to \$30. an acre each year.

England's Egg Supply

Though the production of eggs in England has increased enormously England has accessed enormously England has accessed enormously are all the second of the second of

is relieved. All farms, of course, could not be distin heradown, however, isapplicable to any farm in wass for subscriptions. I have sea cured 21 new subscriptions, and wish r you to send me three pure-bred pigs. I have added my own name to the illat of new subscribers, as I want to have a Canadian Dairyman and Farming World of my own.

"My grandiather and farsfryman as ince it was first published, and we look forward to its coming every look forward to its coming every oweek." Ray C. Wells, Sardis, B. C., Why do not some of our boys in Onlario take advantage of our special live stock offer, and secure some pure-bred atook for themselves, by doing a little work for The Canadian Joseph of the special live stock offer, and secure some pure-bred atook for themselves, by doing a little work for The Canadian Joseph of the secure of your neighbors to subscribe for The Canadian Dairyman and Farming World at \$1 a year each, and send us the list, together with \$7.00, and we will have shipped to to them their choice of a pure-bred Berkelire or Tamworth pig.

ju

sie

th ju

ec in er

PRIZE WINNERS IN THE DAIRY FARMS' COMPETITION

First Prize, \$100—George McKenzie, Thornhill, Ont., 704 Points.

Second Prize, \$75—D. Duncan, Don, Ont., 698 Points.

Third Prize, \$50—D. J. McClure, Churchville, Ont., 693 Points.

Fourth Prize, \$25—R. M. Loveless, Agincourt, 668 Points.

Fifth Prize, \$15-J. G. Paterson, Agincourt, 651 Points.

AST year The Canadian Dair man arranged for the holding of a dairy farms competition open to dairy farmers living within thirty miles of Toronto. Twenty-two of the best farmers around Toronto competed. The results have just been made known. The prize winer names are given above. A table, showing the standing of the 15 leading competitors is published on page five.

The competition has proved a great success. It

created myn interest, not only among the competitors, but also among their neighbors. On a number of the farms, various improvements were made by the competitors. In some cases, so we are informed, these improvements have been copied already by neighbors, and the whole community has thus been benefited.

The judges were Messrs. D. Drummond of the Dominion Department of Agriculture, Ottawa, and J. H. Grisdale, Agriculturist of the Central Experimental Form, Ottawa, Two better qualified men for this work could not have been secured. Both are farmers by training. Both have traveled extensively, visiting most of the best farms in this country. Mr. Drummond has had experience both as a competitor and as a judge in good farms com-

petitions held in the province of Quebec.

The judges visited the competing farms twice; once last July and the second time during the months of December and January. On the occasion of their last visit the competitors were given no warning. Some were caught completely off their guard and lost points in consequence. The judges will furnish a statement shortly about the competition, which will be both interesting and instructive. In the meanticue, the following general information about the c'mpetition is given.

POINTS ALLOWED

The total number of points was 1,000, divided as shown in the table on page five. Some of the competitors would have stood much higher but for the fact that they were not, strictly speaking,

dairy farmers . A number of them were more in general farming then in dairy farming. This told against them.

In awarding the points the judges took the general conditions of the farm into consideration. For instance, where the farm was small, if the heuses of the competitors were neat, well lighted and ventilated, well kept and laid out in a manner that would enable the housewife to work to advantage, and provided the surroundings were

THE HOME OF MR. GEORGE McKENZIE, OF THORNHILL, THE WINNER IN THE DAIRY FARMS' COMPETITION

Note the neat fence, the nice but not too elaborate hedge, the walk and the driveway. There is a lawn in

front of the house and to the right of the driveway an excellent vegetable garden. On the left of the house is a

ordund, in which the trees are in good condition. One of the strong points about the farm is the neutrons and

also attractive, they were awarded as many points as larger houses on larger farms that were no better arranged and kept. The same principle was followed in awarding the points for the farms. The idea of the judges was to take things as they found them and to give the small farmers an equal chance with the large farmers.

In the case of tenant farmers, of which there were several in the competition, they were allowed more points for permanent improvements than were those competitors who owned their farms.

RESULTS A SURPRISE

In some cases the results will be a surprise and in others not. Some of the competitors who had fine houses and barns lost heavily because their live stock were not equally good or because

their crops were weedy or their system of farm management not up to the standard of other competitors. Quite a few of the competitors lost heavily because they did not appear to be managing their farms with any definite object in view. They could not tell the judges what they had done or were going to do to increase the fertility of their farms. A number did not have any system of crop rotation.

One of the points to which the judges paid considerable attention was neatness. Some of the competitors who were excellent farmers in every other respect, fell down badly on this point. In some cases the manure was found stacked in the barn yards in great heaps. The cow had to wade through this manure when entering and leaving the stables. In other cases the stables and often the hog peins, were found in an u.t.dy condition. A number of the stables were not well lighted and but few of them had any form of ventilation. In other cases, stacks of rubbish were found in odd

corners that should have been burned up or removed Points were lost by many competitors because they did not have any complete or systematic system of farm book-keeping. It will be noticed that if Mr. Duncan had secored as many points on bcok-keeping as Mr. McKenzie did he would have won the competition.

THE WINNER

The winner, Mr. Geo. McKenzie, won because he was strong in almost every department of his farm operations. average was high and he won on that account. 't will be noticed that various of the competitors scored more than Mr. Mc-Kenzie did on some department but none of them did as well in all the departments as did. As Mr. McKenzie is a young man, his victory

is a very creditable one. The Canadian Dairyman and Farming World has been informed that there are farmers who would like to visit Mr. McKenzie's farm. They can do this very readily any time they are in Toronto, as the electric cars running between Toronio and Newmarket pass his doors. Mr. Duncan's farm is a little more difficult to reach. It adjoins the Don station on the Canadian Northern Railway running out of Toronto. It is about eight miles from Toronto, and about two miles from the Yonge street electric cars. Mr. McClure's farm is near Churchville, on the Canadian Pacific Railway and about four miles from Brampton. The farms of Messrs. Loveless and Paterson almost adjoin each other and are near Agincourt station, fourteen miles from Toronto, on the Canadian Pacific Railway. In following issues, will be published illustrations and descriptions of the prize winning farms.

THEY HELPED

The competition last year would not have been possible but for the assistance given The Canadian Dairyman in the matter of the prize list. The following contributions were received:

Eastern Ontario Dairyman's Association\$5	0
D- Laval Separator Company 2	
Empire Separator Company 2	5
Sharples Separator Company 2	5
Ontario Wind Engine and Fump Company 2	5
Gould, Shapley & Muir 2	5
Whitten Drummond Company, Ltd., Toronto 1	0
Alex. McCowan, M.L.A., Ellesmere	
Hon. Thos. Crawford, M.L.A., Toronto	5

Unless one or two other public started firms or gentlemen assist by sending contributions, the balance of the prize list will be borne by The Canadian Dairyman and Farming World, which already has paid the general expenses of the competition, including those of the jurdes.

Tt is hoped that the success of this competition will make it possible to hold a provincial competition this year open to farmers all over Ontario. Both the Eastern and Western Ontario Dairymen's Associations have endorsed this suggestion. Further mention of this matter will be made later.

The Value of Rural Telephones

Sam Suddaby, Victoria Co., Ont.

The telephone is a most wonderful and one of the most helpful inventions that we have. Its usefulness has only begun to be appreciated. Up to a few years ago, the telephone was looked upon as a convenience, confined to urban communities. Towns or villages without telephones were considered behind the times. While it is a very great convenience in towns, it is a real necessity in the country.

If one wants to communicate with another in the same town it is only a short distance to go and see him; the roads are never blocked with snow, he can easily get here. It is far different with the more widely separated country residents. For many years the town people have enjoyed the advantages of telephone communications; such has been denied the residents of country districts. Why? Simply because the telephone business was in the hands of one big company that was making all kinds of money out of it and would not extend its lines into the country, because they would not see a chance of making three dollars for every one expended, consequently until the rural communities began organizing independent companies, telephones were found only in the towns.

Since the independent movement has started, rural telephones have made rapid progress. When the farmers once begin to realize how easily they may secure telephones, and of how great benefit they are to them, the progress that has been made will be insignificant in comparison with what will be the case. It costs considerable to get a telephone system in **t.ied*, that is of much use, but if all assist, the cost to each is little and the benefits great.

I could not begin to enumerate the benefits to a sparsely settled rural community that are to be derived from telephone connections, between residents and with the village or market town. One thing that will occur to the mind of everyone, is the fact that there are times when a life may be saved by having instant means of communicating with a doctor.

The Company with which I am associated is a stock company. The shares are \$10 each. We have 13 miles of line in operation which are

giving good service. There are other ways of securing a telphone system, perhaps just as good, but if the people will go into the business having in view the benefits they are going to get out of it, rather than the idea of making or paying dividends, they can have telephone service at small cost, and good service as well. We purchased our phones from the Canadian Independent Telephone Company of Toronto. There are a number of other manufacturing companies supplying the Independents. All of these will give good service and any of them will give valuable acaistance in getting up companies for the purpose of installing rural telephone lines.

IS THE RURAL MAIL DELIVERY RUN BY THE POLITICIANS?

The Third of a Series of Articles Written for The Canadian Dairyman and Farming World, by an Editorial Representativ: of this Paper, who Recently Visited the United States, with the Object of Studying the Free Rural Mail Delivery System.

NE of the objections that has I een raised against the introduction of ree rural delivery in Canada is the ciaim that the service in the United States is run by the politicians. It has been stated by a leading official of the Canadian post office department and it is believed more or less generally, that the rural mail carriers and inspectors are politician politicians; that it is little more than an immense politicial machine started by the politicians to catch votes among the farmers.

Were investigation to prove the foregoing charges to be true, and were it to seem likely that the evils referred to would spring rp in Canada, were free rural delivery to be introduced here, there are few Canadians who would be willing to pay such a price.

Realizing the seriousness of the charges, the editorial representative of The Canadian Dairy-

HOW IT STARTED

The rural delivery was started twelve years ago pa A. W. Machen, who later became general superintedent of the free delivery system. Mr. Machen has since left the service, but his former, stenographer is still in the ennloy of the Department. "I well remember," she said when interviewed, "the day that Mr. Machen threw a letter over to me and announced that he purposed asking an experiment with free rural mail delivery. No one in the department had any idea that the service would prove so popular or that it would grow in the way it has "

AN EXPERIMENT AT FIRST

During the first two or three years of the rural delivery service it was more or less of an experiment. Neither Congress or the Post Office Department laid down any hard or fast rules as to how the service was to be conducted. The result



The illustration shows a group of farmers at Delphi, L-diana, after receiving their mail boxes upon the start of a Free Rural Mail Delivery Route in their vection. No wonder they look pleased.

man and Farming World made careful enquiries on this point. Government officials, postmasters, rural carriers and farmers, on both sides of politics, and living in several states, were interviewed. Not one was found who claimed that politics had anything to do with the service. Many laughed at the suggestion. Some even said that they had never heard such a thing hinted at.

POLITICS IN IT AT FIRST

During the first six years of the service, politicul considerations did have more or less influence in its management. During the last six years, or since February 1, 1902, the spointment of the rural carriers and other officials, has been under the control of the United States Othl Service Commission. Since February 1, 1904, the commission has adopted rules governing the appointment of rural carriers that have made it imposible for the politicians to have anything to dowith the selection of the carriers. was that at first the politicians did have considerable say in its management. After the first few rural delivery routes had been started, applications for the establishment of additional routes began to pour in on the Department. The number of these applications was so great the Department did not have the staff, or the necessary organization, with which to handle them. A rule was finally adopted by which it was made necessary that all applications for the establishment of a rural delivery route should bear the endorsation of the member of Congress or the Senate, irrespective of party, for the district before they would be considered by the Post Office Department. The members were consulted also in regard to the rural mail carriers.

This system was followed for several years. While no person was found who would say so, it is altogether likely that Republican members of Congress used to have more influence than the Democratic members in deciding which routes

would be laid out first and who would be appointed as carriers.

IMPROVED SYSTEM ADOPTED

By February 4, 1902, the rural delivery system had assumed such large proportions a different method was adopted. Upon the recommendation of President Rooseve't, Congress consented to the rural free delivery service being clased under civil service rules.

The regulations then adopted provided that the rural carriers should be selected by rural agents of the Post Office Department after on.; a very superficial test of their ability to read and write. These regulations proved very unsatisfactory. They resulted in charges that the rural agents were controlled in their selection by political in fluence. On Fr bruary 1, 1904, the regulations were agair changed with the object of removing all cause for complaint. The regulations then adopted are still in force. They have been and still are entirely satisfactory. The records of the Civil Service Commission and of the Post Office Department, show that they have raised the personnel of rural carriers to a remarkably high

carriers and living near the office at which the services of a carrier are needed, an examination is held. The announcement of this examination is sent to the local postmaster, who is required to give it publicity. Copies of the announcement are posted in the lobby of the office and in other conspicuous public places. The examinations are also usually announced in the press as items of news.

The aplication blanks are distributed by the post-standard regions of examiners. The applications, when filled ir, are sent direct to Washington, and filled with the Commission. If the Commission believes that the postmaster is attempting to stifle competition in the interest of some personal or political friend, the examination of the applicants is postponed until the number of applications on file justifies the Commission in holding an examination. Additional applicants are usually secured by a re-announcement of the examination. Circular letters are sent sometimes to citizens of the territory supplied by the post-office calling attention to the

The examination is of a simple character. It is principally a test of accuracy. It consists of the filling out of registry and morey order receipts, an example in simple addition, and the reading and writing of addresses. The examination papers are rated by examiners of the Commission all located in Washington. This prevents interference from local influences.

The applicant who receives the most marks receives the appointment. The papers are numberel and thus the Commission does not know who the applicants are. Preference in appointment is all branches of the service is given to persons who have been honorably discharged from the United States Military or Naval Service on account of disability resulting from wounds received or sickness incurred in the line of duty in certain wars, in accordance with the provision of an Act of Congress, provided however, that such person receives a rating of not less than 65 (70 being required for eligibility for all others), and is physically able to do C * work.

The regulations require that each applicant must have been a resident of the territory sup-

THE WINNING AND LEADING FARMERS IN THE DAIRY FARMS COMPETITION

			Hou Po		8				din							Sto				Cre 0 P	ops oin	ts					nen	t				ner		. 1	mer	ove	- 1	000
Names	Plan and Finish	Carden	Sanitation	Arrangement	morary, etc.	Promision and Size	Location	Condition	Neathess	Light and Ventilation	Yard	TOTAL	Number Oursites and Condition	Breeding	Feeding	Poultry	Swine	TOTAL	Fultability	Yields and Condition	Weeds TOPPAT.	Detailor	Arangement of Fields	Ice and Water	Fences, Ditches, Roads, etc.	Workmanship	Preservation of Manure	DOOR-RECOING AND ACCOUNTS	TOTAL	Character	Housing	Repair	TOTAL	Roads	Obstacles	Deautifying	TOTAL	GRAND TOTAL
	25	25 2	5 25	25 :	15	2	5 25	20	20 2	. 30	10		40 4	10 41	20	15 1	0 15		75	75	50	2	5 20	20	20	25	20 2	9	2	5 10	25	25		10 2	25 25	15		-
Geo. McKensie, Thornhill, Ont. D. Duncan, Don, Ont. D. J. McClure, Churchville, Ont. D. J. McClure, Churchville, Ont. J. O. Paterson, Agincourt, Ont. J. O. Paterson, Downsriew, Ont. Thos. Hartley, Downsriew, Ont. Thos. Hartley, Downsriew, Ont. John McKensie, Thornhill, Ont. Will. Doveless, Ellesmere, Ont. James Grichton, Searboro Jamet, Ont. James Grichton, Searboro Jamet, Ont. John Baird, Woburn, Ont. John Baird, Woburn, Ont. John Baird, Woburn, Ont.	21 20 18 18 18 24 13 18 18 15 14 18 16 20	22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	00 18 23 23 22 15 20 15 20 23 12 20 10 10 15 15 12 12 14 15 18 15 18 15 18 22	12 12 12 12 15 15 15 15	200 1: 200 1: 20	92 1 92 1 90 1 96 1	11 20 12 20 12 20 12 16	17 17 18	18 1 10 1 19 1 16 1 18 1 13 1 14 1 15 1 17 1 16 1 17 1 16 1 18 1 14 1	5 20 5 18 7 18 5 18 7 25	5161	97 1 114 2 114 2 118 2 109 2 127 1	22 2 2 5 30 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2	0 0 0 0 0 0 0 0 0	16 16 16 16 16 17 17 17 16 16 16 16 16 16 17 17 16 16 16 16 16 16 16 16 16 16 16 16 16	12 1 10 1 2 1 10 1 10 1 10 1 8 2 6 1 12 1 5 1 10 1 9 1 12 1 8 1	0 5 0 15 0 13 2 8 2 5 2 5 2 1 0 0 0 0 10 2 6 2 6 2 6 2 7 5 10	100 141 101 109 83 125 127 106 84 91 87 88 88 88	50 55 50 50 50 45 45 45 45 45 45 45 45 45 45 45 45 45	50 50 40 50 50 40 45 45 45 45 45 45 45 45 45 45 45 45 45	35 13 35 14 30 11 40 14 30 11 30 11 30 12 30 12 30 12 30 12 30 12 30 12 30 12 30 12	35 1 40 1 20 2 40 2 40 2 25 2 20 1 20 2 15 1 555 2 15 1 565 2 15 1 565 2	5 18 5 17 00 18 5 18 00 10 00 10 00 10 00 11 5 11 5 10 5 10	15 15 180 180 180 180 180 180 180 180 180 180	18 16 16 18 17 12 15 15 17 12 15 16 17 12 15 16 17 12 15 17 12 15 16 17 12 15 16 16 16 16 16 16 16 16 16 16 16 16 16	20 : 15 : 15 : 20 : 20 : 12 : 12 : 12 : 12 : 15 : 18 : 15 : 12	17 1 15 1 10 1 10 1 10 1 15 1 15 1 15 1 16 1 16 1 17 1 18 15 15	0 11 0 15 5 11 6 16 0 16 0 16 1 0 16	13 2 98 2 17 2 17 2 18 2 19 2 19 2 19 2 19 2 19 2 19 2 19 2 19	0 8 0 8 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	3 14 3 10 3 13 3 13 1 12 7 12 7 12 8 12 8 12 7 12 8 15 7 12 8 15	20 15 15 16 18 15 16 18 16 15 15 15 16 15 15 16 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	52 53 56 55 57 55 56 56 56 56 56 56 55 56 55 56 55 56 55 56 55 56 56	7 2 7 1 6 1 7 1 7 2 6 5 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2	0 14 1 13 5 14 5 12 1 15 1 15 1 15 1 16 1 18 1 18 1 18 1 18 1 18 1 18 1 18	61 56 53 49 62 42 33 52 45 40 40 35 40 26 30	704 698 693 668 651 639 632 600 597 590 587

There were seven other competitors whose names and scores are not given

standard. The system is very simple and seems perfect in the safeguards that it sets up against political influence.

THE CIVIL SERVICE COMMISSION

Just here it may be well to explain what the Civil Service Commission is. The commission is composed of three persons appointed by the president. The law provides that not more than two members of the commission shall be adherents of the same party. The present Democratic member of the commission and its president is General John C. Black, of Chicago, who, when the Democrats were in power during the second administration of President Cleveland, was Commissioner of Pensions. The commission prescribe the manner in which apointments to the Civil Service shall be made, including those of the rural carriers.

The method of filling positions in the rural delivery service is as follows:

The Post Office Department notifies the Commission of its intention to establish new ryral routes and also of all vacancies on established routes. If the Commission has not got the names of any persons s. table for the position of rural need of applicants and to the fact that competition is open to all citizens who can comply with the requirements.

The examination of the persons desirous to be appointed as carriers are held by local boards of examiners which must consist of members of both political parties. Where there are no local boards, the examination is conducted by the postmaster.

The examination papers are mailed in sealed packages from the Civil Service Commission in Washington to the examiners, who are instructed not to open the packages nor break the seals in the envelopes containing the papers until the classes of competitors have assembled. They are asked to invite the attention of the classes to the breaking of the seals. The examiners are also charged with the duty of seeing that there is no collusion between competitors. After the examination is over, the examiners give the competitors an opportunity to see them seal the envelope containing the papers which are numbered but do not bear the competitors' name, and make them ready for mailing back to the office of the Commission in Washington.

plied by the post office named in his application for all of the twelve months immediately preceding the filling of his application. It is also required that an applicant must be vouched for by four persons who are patrons of rural service and he must also submit the names of five other such persons who are acqualed in the haraster and who are capable of judging of his fitness for appointment. These requirements of the regulations have proven theoroughly astisfactory and have awakened an interest among the patrons of rural service in the appointment of the persons who are to carry-the mail.

Owing to its being important that rural carriers shall have the good will of the patrons and as a safeguard against the appointment of unsuitable persons, Section 11 of the regulations provides a way by which the patrons of rural service may keep the registers clear of the names of unworthy or unsuitable persons. The Commission reports that when a person who is unsuitable files application as to his residence, the matter is almost always brought to the attention of the Commission in time to prevent his apointment.

Continued on Page 23

Side Lights on Breeding.

Ed. The Dairyman and Farming World:—On looking over a recent is-sue of your paper, I noticed an arti-World:—On looking over a recent is-sue of your paper, I noticed ar arti-cle by Mr. L. P. Bailey, president of Ohio State Board of Agriculture, on the Breeding of Dairy Cattle. This address was delivered at the recent Jacks and the state of the control of the Mr. Bailey states that in their en-thusiasm to establish certain desired to great truths in the breeding pro-blems, but that these truths must be cow in your her! would come out min-

proven, by the practical breeder. Such us something, and your poorest cow proving necessarily must involve much win the day over all the others, so time and study. It looks as if Mr. much depends on circumstances. The proving necessarily must involve much time and study. It looks as if Mr. Bailey was trying to tell us all these truths himself, and after only 12 years of study and research on his

Mr. Bailey claims that the great Mr. Bailey claims that the great need for breeders of dairy cattle, is a more intelligent knowledge, and abili-ty 1.5 judge the animal, any age or sex, by its conformation, without re-gard to milk or butter fat records. Now, although we must have the weigh scale and the butter fat test thusiasm to establish certain desired by 15 judge the animal, any age or principles concerning problems of sex, by its conformation, without rehreeding, scientists have arrived at gard to milk or butter fat records, conclusions, without sufficient evitowers, which are misleading and weigh scale and the butter fat test erroneous. He claims also that the cassist us in our work, the place for criticism is applicable to the practical these is in every man's own stable, except the conclusions can never be arrived interesting the many the conclusions can never be arrived. Perhaps the best

much depends on circumstances. The excitement at such times tends to put the best of cows out of their regular routine. But we must have these shows. They brighten us up and are a stimulant to greater efforts. If a judge knows his business, and knows that he knows it, he then has the confidence to do his work, regardless of the oulcokers, or would-be criticisers.

or would-be criticisers.

A judge must have an ideal, and know it when he sees it. To do this he must have had long years of study and feel it to make sure. He must be a born stockman, and have a love for his occupation. He will then have untiring energy. The hours will never be too long for him to develop in the animals of his choice the requisites he may want to produce.

duce.

It has been said that we want performance in dairy cows. That is true. But we want conformation, too. Did you ever see a good conformation that was not attended with performance, provided the breeding and feeding were right? Knowledge should come first, breeding second, feeding third, weighing and testing fourth.

It is essential to breed always from

and testing fourth.
It is essential to breed always from
the best stock procurable. A bad
cross is sure to show itself, sooner or
later. Note all this, and more.
When you see an animal in the ring,
you can very nearly tell what is in it.
If not, don't take the position of a judge.

Wm. Stewart, Jr. Northumberland Co., Ont.

"Proper results in road making require shrewd ability, in direction and adherence to fundamental principles.—Commissioner A. W. Campbell, To-

ronto.
"The man who weighs bis milk only three days in a month will not have as 10-d a guide for his daily feeding operations as the man who weighs every day, nor will he have a constant stimulus before his herdaman and milkers that is essential in maximum results."—A. Dunn, Ingersoll.

Profitable and Unprofitable Cows

The great difference in the profits obtained from different cows in the same herds was described by Mr. C. F. Whitley, of the Dominion Depart-F. Whitley, of the Dominion Department of Agriculture, in an address at the recent Annual Convention of the recent and t

d

card the poor and unprofitable cows, and and, it increases production by getting rid of the poor cows and thus decreasing the expense. Mr. Whitley stated that in some herds by keeping cow records, the output of the herd had been increased so per cent. in a few years. He thought it strange that dairymen had not awakened sooner to the fact that they had so

many unprofitable cows.

The following table shows comparisons between some of the herds tested at Ormstown, Que., during the past season:-

VIELD OF BEST COWS IN FIVE HERDS FOR SIX MONTHS-JUNE TO NOVEMBER.

Herd	Date Calved	Age	Lbs. Milk		Lbs. Fat	Val. a			
20 5 7 6 11	April 14 May 5 3 April 15 May 3	8 9 9 9	3685 4655 5100 4945 5384	3.6 3.8 3.6 3.9 3.7	132.3 175.4 183.0 191.5 199.8	\$33.07 43.85 45.75 47.87 49.96			

May 15 5 2585 3,5 91.5 22.87

The conclusion to be drawn from this table is that 20 cows like the best cow are equal in production to

of the poorest.
Mr. Whitley made further comparisons of some of the herds he had tested, showing in some sons of some of the herds he had tested, showing in some cases an average of only \$13 a cow and other cases a profit of \$42 a cow during the same test period. The low average a season was usually where the lactation period was agot more than five or six menths which was more common than was generally supposed. He considered that if one-third of the cows in Quebec were weeded out. and the other two-thirds properly housed and fed that the returns to the farmers would be increased at least \$7,500,000 yearly. He emphasized strongly the need for a milking period of at least nine months

further comparison that was made between the best cow in one herd and the poorest in the same herd for net value of profit was as

cow. No. VALUE LESS PEED

To get this latter estimate, Mr. Whitley valued the dairy cow at the start at \$60, when through at \$12. Then there is interest on the value of the cow, depreciation of value, value of calf is placed to keeping of value of call is placed to keeping or sire, value of manure at \$21. On this basis, No. 1 cow is worth 8 3-10 times as much as cow No. 2, at least she gives that amount of net profit. To get \$1,000 net profit requires 20 cows like No. 1 and 172 cows like

No. 2. Mr. Whitley ancunced that charge of 20 cents a cow would be made this year in the cow-testing as-sociations, and that arrangements would be made with a local tester to do the work.



The "Bissel No One Should

Think of Buying Any Other Roller

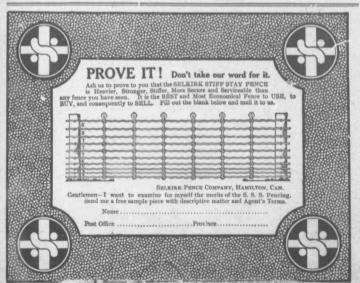
Why? Because no other land roller will begin to give equal satisfaction.

Notice that the "Bissell" is a three-drum roller. It's true it costs more to make a three-drum roller than a two-drum, but you pay very little more for the "Bissell," and get far more value for your money.

The three-drum "Bissell" is heavier and stronger than a two-drum roller, because there are six heads instead of four. Besides, three short drums are easier to turn than two long ones.

And because the axle revolves with the drums and the roller bearings turn on the axle there is no friction, therefore oiling is hardly required. But, of course, you are anxious to have complete details about the "Bissell" Roller, so sit down now and write for our Free Booklet to Dept R. old by local dealers everywhere.

T. E. BISSELL COMPANY, Ltd., ELORA, ONT.



It is desirable to mention the name of this publication when writing to advertisers

Want \$100,000 for Fairs

The members of the Ontario Association of Fairs and Exhibitions seem determined to have more money. During the Annual Convention last week in Toronto, a strong delegation waited upon the Government and asked that

upon the Government and asked that the present appropriation for Agricul-tural Societies be increased from \$70,-900 to \$190,900. The usual promise of consideration was granted. The Provincial Treasurer threw out the suggestion that if less money were expended upon preparing and dis-tributing lengthy erports of the As-

tributing lengthy erports of the Association work, more money might be available for prise money.

The Hon. Mr. Monteith, in his address to the Convention, intimated that the Government might increase the \$1,000 grant for field crop competition. He expressed regret that the social features of Agricultural Societies had been dropped to a large extess had been dropped to a large ex-

the may be described by the control of the control

special line of agriculture in the dis-trict. Many prize lists were the same to-day as 30 years ago.

There seems to be a demand for better auditing. Mr. H. J. Gould advocated the appointment of a Pro-vincial auditor, but there was consider-able opposition to this. The Act as it reads now gives the Minister of Agri-

could now gives the Minister of Agriculture power to appoint an address culture power to appoint an address examine the books of any society if he so desires and, therefore, new legislation is not required to effect a change in the system of auditing.

An important topic discussed was "Whether the value of grounds and buildings of Agricultural Societies buildings of Agricultural Societies awarding dovernment grants. Mr. B. Boughner, of Simose, introduced the matter, but a majority decided in favor of the Government continuing to make grants on the basis of the

favor of the Government continuing to make grants on the basis of the prines offered only.

Mr. John Brockbank made a special ples for the general purpose horse at dairs. There was no show for it is the ring if judged with the heavy drutt horse. He defined a general purpose horse as one whose weight ranges from 1,150 to 1,300 pounds. No de-cision was reached by the meeting.

THE PRESIDENT'S ADDRESS

THE PRESIDENT'S ADDRESS

The address of the President, Mr.
Wm. Laidlaw, Guelph, was most optimistle as regards the future of the Asregards the future of the Aspersistent of the Assemble of the Assembl

SEED FAIRS

The giving of prizes for seed grain competitions was commended by the Convention. The feeling prevailed that the prizes given by the Government for this purpose should be distributed more over the Province. The plan adopted last year of giving the prizes to the society or district first making application was not fair. The province should be divided into dis-

tricts, and the money divided between these districts.

2nd Vice-President.Dr. Simmons, food work is being done by the District Fair Association in arranging Johnson Ellis, Lindsay; R. H. L. Lury, dates for hololing fairs, in eronomy in Peterboric Geo. E. Lee, Highate: J. dates for holding fairs, in economy in justing up show bills and in other ways. Mr. John Farrell, Forest, who diacussed this subjet also spoke strongly in favor of educational features at fairs. These should begin with the children, by arranging for prizes for school drills, for jugding "uit, etc. Domestic science features are also valuable."

The expc: judges sent out by the Government every fall seem to be growing in favor. Dr. Simmons, of Prankport thought so much of the

The expc.t judges sent out by the Government every fall seem to be growing in favor. Dr. Simmons, of plan that he urged that something should be done towards recurring independent and competent judges for every department of the fair. The beef judge should not judge dairy cattle as well, nor the heavy horse man judge light horses. But this would entail large expense on some-body and could not be expected to materialise for some time to come. However, to increase possible.

A number of resolutions of more, we have the supposition of more possible.

A number of resolutions of more or less importance were presented to the meeting. In most cases they were ordered printed in the annual report without the Convention coming to any decision upon them. These included resolutions asking that the expenses of delegates to the Annual Convention be classed as money expended for agricultural purposes in awarding the Covernment grant; that he was a superior of the confect of the confect of the words. A number of resolutions of more

A recommendation from the Can-adian Holstein-Frisian Association asked that agricultural societies place the dairy breads of cattle the same tooting as the best breeds at their local fairs and that special tool tool ges be selected to do the judging. The Treasurer's statement showed a balance on hand at the end of the year of \$128.24 as compared with \$51 at the end of 1906. recommendation from the Can-

One hundred and twenty-two Socie ties were represented at the Convention. President

tion.
President..... Wm. Laidlaw, Guelph
1st Vice-President......H. J. Gould,
Uxbridge

Frankford
Directors:—R. E. Cowan, Galt;
Johnson Ellis, Lindsay, R. H. Lary,
Peterboro; Geo. E. Lee, Highgate; J.
Thos. Murphy, Simcoe; Jno. D. Orr,
Meadowale; and J. W. Sheppard, Cavuga

the value of the future crop will be several times this amount. This forthe value of the future crop will be several times this amount. This for-age plant is a chemical laboratory in which nitrogen is taken from the air. Is is a soil improver of the highest merit. As a flesh-forming feed for growing live stock, and as a milk and egg producer, it is unexcelled by any Alfalfa a Great Crop

The value of the atfalfa crop as hay last year was supposed to be \$100,000,000. If the plans and efforts now under way to promote its extension receive a reasonable reward tention receive a reasonable reward son, Secretary of Agricultum, and the content of the secretary of Agricultum, and the secretary of

Brantford Asphalt

Ins'ead of animal fat, greases, oils, tar, sterine, pitch and kindred refuse from packing houses, soap factories, etc., which are used as the basis of the mixtures employed for cos..ng ordinary roofings, we have chosen for Brantford Roofing

A Far Superior and More Durable Composition Known as Asphaltum.

This Asphaultum is of the same material only used in different proportions and manufactured under a special process results for roofing purposes) as ASPHALT with the control of the contr

BRANTFORD ASPHALT ROOF. ING is not merely coated (as are most roofings) but every fibre of the wool felt, used as the foundation of our roofings, is thoroughly saturated with this wear-defying asphal-

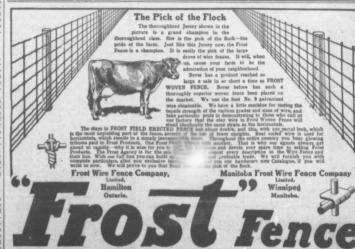
The result of this combination is a roofing which is noteworthy for its extraordinary lasting featuresthat will longest withstand rain, snow, heat, frost, acids, and alkalithat is somewhat better than any other roofing investment you could make.

Get Samples and Circulars

from your hardware dealer or if preferred we will mail them direct to you.

Brantford Roofing Co.

BRANTFORD, - ONTARIO







THE SEEDS THAT GROW BRUC

Our beautifully illustrated 100-page Catalogue of Car. FREE Our beautifully Illustrated too page Catalogue and den, Field and Flower Seeds, 1 ants, Bulbs, Garden and Farm Tools and Implements. Poultry Supplies, etc., is now ready. SEND FOR IT.

A GRAND RECORD FOR BOTH

Mr. S. N. Watts, Portsmouth, writes us: This is my 50th year in the gardening business. I have just been made an honorary member of our Horticultural Society after 47 years of membership. I don't know how many years I have done business with you, but it is a long time, about 40 years, and I have had no reason to change.

Our motto since the inception of this business has been, NOT HOW CHEAP, BUT HOW GOOD.

John A. Bruce & Co., SEED MERCHANTS, Hamilton, Ont.

END AT ONCE for copy of our new catalogue before buying seeds of any sort. Even if you had a copy last year - send again now. We're spending a mint of time and money and strength and energy to maintain the reputation of Steele, Briggs Seeds and in all our experience qualities have never been as satisfactory as now. The advantage of buying Steele, Briggs seeds will be more evident than ever next Fall on account of the inrush of cheap imported grades, due to the short crops of last year. If your dealer doesn't keep Steele, Briggs Seeds, there's a reason. In that event send your order direct to us and we'll see that you get them. The Steele, Briggs Seed Co.

TORONTO, HAMILTON and WINNIPEG

HORTICUL TURE

Growing Tomatoes in Pots S. B. Courtis, York Co., Ont.

For the benefit of those readers of the Canadian Dairyman and Farming World, who, like myself, work only a world, who, like myself, work only a few acres in mixed gardening, and whose patches of tomatoes consist only of a few hundred plants, I will give a few facts from my experience. Fourteen yeers ago, I purchased 200 give a few facts from my experience. Fourteen yerrs ago, I purchased 200 six-inch pots, and planted them with tomato plants, in a rough green house, placing the pots as close together as I could. When the plants met I placed the pots farther apart, so as to give them at least ten inches for each plant. I planted also the same plants of the plant of the plant of the plants of th

same number of plants in hotbeds.

I planted out the lot, the 400, on June and. They were all good plants out of the same seed bed, the only difference being in the treatment of same. The pot plants had numerous stems as high as the main stem, while the hotbed plants had only a good main. They were planted side by side, two rows of each. A rapid growth set in with the result that I gathered tomatoes for fully four spatial productions of the second plants. The conclusion that I came to is that in small pots, the roots soon between the second plants.

The conclusion that I came to is that in small pots, the roots about become logged, with little to feed upon, and beome stunted, whereas in larger pots they are not punished to the same extent. However, I would not advise the use of pots to any great extent. They are very difficult to look after, but to get the best results in localities as far north as Toronto, we must have good plants.

plants.
The easiest and the best way that I know of, is to dig up a spent hotbed, say, one that lettuce has been grown in, and plant in strawberry boxes. Give them as much room as you can afford. Place on the bed and fill with loose earth to level of boxes. They are easy to water and the roots will feed from the bed.

Beginners' Difficulties in Spraying

Robt. Thompson, St. Catherines. Ont.

As the season for spraying is rapid-As the season for spraying is rapid-yla proaching we find many of our growers dreading the work of apply-ing the lime-sulphur wash. In the preparation of this mixture, if there is no boiling plant nearby, and the grower wishes to prepare his material grower wishes to prepare his material cheaply and effectively, he can make a plank box, about three or four feet wide, from five to seven feet long, and 12 inches high. Secure a sheet of boiler plate, that will project a couple of inches outside of box. Fasten the box to the sheet iron securely by means of screws though deal means of screws through

orous'y all the time. Add more water to make the 50 gallons. The last few gallons added may be of cold water, so that the mixture, if going directly into the pump to be used, water, so that the mixtue, it going directly into the pump to be used, will not be boiling, and thus injure the hose. Great care should be exercised in straining into the tank, using cised in straining into the tank, using for the last straining, a strainer fifty meshes to the inch. Fine nozzels can then be used, and no truble will be experienced from clogging. Better work can be done with small nozzles, and less material used. Spray the first ime about two-

and, less material used.

Spray the first time about twothirds of the tree from the windy
side, then, when there is a change of
wind, to one of the opposite quarters, the other third can be sprayed.
A good breeze is found to be a good
aid in spraying, especially for large
trees. Be sure and cover every spot
on the trees. the trees.

trees. De saw.

When spraying with Bordeaux mixture and poison for coddling moth,
see that every twig and leaf is covered
and every apple covered, so that the
poison will have filled the calyx end
of the fruit. Thoroughness in every particular is one of the secrets of suc cess in spraying.

Wood Ashes for Vegetables.

I have the chance to buy a quantity of wood ashes at five cents a bushel Will it pay to buy them for vegetables? How much should be applied per acre 1—R.L., Digby Co., N.S.

Wood ashes contain potash, phosphoric acid, and lime, all of which are useful in the growing of vegetables. The ashes are usually valued more for userti. In the growing of vegerators. The ashes are usually valued more for the post of the control of the cont per acre.

Moss on Apple Trees.

What strength of potash should be used on old apple trees to remove moss and lichens ?— U.E.N., Huron Co. Ont.

It has been found from experiment, that a two per cent. solution of caus-tis potash will remove moss and lichens from trees satisfactorily, and will not injure the trees when they are dormant Even a two and one-half to three pay cent. solution may be used without injury to the trees when dormant, but this strength is not necesmant, but this strength is not neces-sary and, as caustic potash is un-pleasant to use, even in a two per cent. solution, we would not advise using a stronger one. One thor-ough application would accomplish much, but two applications would be better, and should be sufficient.

by means of screws through drill holes.

A fire place can be built of bricks, so that the boiler plate vill rest on brick-work. Leave open at end and prick-work. Leave open at end and sulphur. The above makes the chapter of the prick-work. Leave open at end and sulphur. The back end of the past of the past of the past of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the box cash of the past open at end and sulphur. The back end of the box cash of the past open at end and sulphur. The back end of the box cash of the past open at end and sulphur. The back end of the box cash of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The back end of the past open at end and sulphur. The

POULTRY YARD

Running Incubators J. H. Stewart

The incubator should be set up carefully according to directions, and the incubator chamber gradually brought to the proper temperature. The territory incubator chamber gradually brought incubator chamber gradually brought to the control of the co

properly adjusted to the right temper-ature and all the parts in good working order, it is an easy matter for the temperature to run too high, and thus

injure, or totally destroy, the hatch. The temperature should be maintained as uniform as possible. All violent fluctuations are unnatural and injur-ious. This is especially true of tem-peratures above the proper incubat-ing temperature. Cooling the eggs a few degrees below the proper incubating temperatures does no harm, and in case the ventilation of the machine is not sufficient to supply the germs with enough oxygen, this cooling may be necessary for a good hatch.

VENTILATION AND MOISTURE

The ventilation of the machine is The ventilation of the machine is next in importance to the temperature. During their development the germs absorb oxygen, and throw off carbon dioxide or carbonic acid gas, as it is sometimes called. If the carbon dioxide is allowed to accumulate, or in other words, if the vitiated air is not replaced by pure air, with sufficient public, the germs will be weak the control of the carbon dioxide and the control of the yolk sack, two very common ailthe yolk sack, two very common ail-nents of incubator chickens, are fre-quently caused by lack of fresh air in the incubating chamber, during hatch.

the hatch.

The eggs must be given plenty of freeh air. When this is overdone another trouble is encountered. The eggs lose too much moisture, and the chicks dry fast to the shells, thus destroying many chicks, and producing many cripples. On the other hand, if the eggs do not lose enough moisture, the chicks are weak and moisture, the chicks are weak and the chick are weak and the chick are she weak and the product of the chick are she was and the product of the chick are she was an account of the chick are she was a she too much moisture, and too little there is a medium where the moisture conditions are just right, and which when closely adhered to in practice, gives best results.

POULTRY EXCHANGE

TWO CENTS A WORD, CASH WITH ORDER

WINTER LAYING White Wyandottes. W. D. MONEMAN, Bond Head, Ont.

FOR SALE.—Six Choice Barred Plymouth Rock Cockerels at a bargain. J. F. TRIVERTON, Poucher's Mills, Ont.

STEPHEN OLIVER, Lindsay, Ont.—26 kinds fowls—Hamburgs, W. Leghorns, R. Caps judians and W C B Polands.

J. J. S. CKETT, Lindsay, Ont. — Breeder of Vhite Leghorns, S S Hamburgs and Barred

Hot Air or Hot Water Incubators George Beckett, Middlesex Co., Ont.

I have had considerable experience I have had considerable experience with in-ubactors and have found them satisfactory beyond dispute. I have had from 80 to 98 per cant. of a hatch. Incubator chicks are as strong and healthy, if not stronger, than those raised in the natural way. My incubator is kept in any vacant room in the house, excepting the cellar, the temperature of the room varying from the control of the control of the room varying from the property of the room varying from the property of the room varying from the property of the property of the room varying from varyin

s 80 degrees above.

I used a hot air incubator for two
ears with pretty good success, but
was not satisfied with it, especially
n the moisture question. At every years with pretty good success, but I was not satisfied with it, especially on the moisture question. At every hatch there would be a number of chicks dead in the shell. Many died after the eggs were chipped, the edges of the shell drying up and becoming too hard. This led me to purchase a hot water machine. I set them both at the same time. Out of the hot at the same time, Out of the hot out of 86 fortile eggs. Another time I hatched 74 chicks out of 84 eggs and for four or five nights the thermometer in the room went down to 15 degrees below freezing, but the temperature in the incubator did not vary one degree. In the first hatch there was one egg in which the chick died on about the fourteenth day. In the second hatch there were none dead, but there were 10 bad eggs.

The dry air machine had seldom less than 8 or 10 dead chicks, and I hatch a state of the control of the cont

to 25 degrees in temperature.
Some people contend that chickens hatched by an incubator are weakly and will soon die. This is a mistake. If you have the right kind of a brooder and take the right care of the chickens, you will raise stronger and healthier chickens than a hen will raise. This may sound absurd, but I have fird I am out exceed the way and the chickens than a hen will raise. The may sound absurd, but I have fird I am out exceed the way lice or vermin to weaken them, and they will feather out in less than half the time and will be shielded from the changes in the atmosphere. The old way of hatching fowl is a loss of time, eggs and money. time, oggs and money.

Trap Nesting

H. F. Vidal, Lincoln County, Ont.

Any combination of trip-wire, and swinging front, put together by a handy man, will do the work of a trap-nest, and the simpler the mechanism, the better. They should visited four or five times a day. They should be find that four nests will do for every dozen hens, but some prefer more. The matter of keeping the record is very easy. A piece of paper, with The matter of keeping the record is very easy. A piece of paper, with a pencil hanging on it is tacked up in the house, with spaces ruled off vertically for the days of the month, and horizontally for the ring number of the hens, and each hen is credited with a mark against her number, as you take her, and her donation, out of the trap nest. You will soon have your ideas about egg types pretty well mixed, and the specked incn that is always cackling, and singing, is like Neighbor Jones, who leans over the fence, and tells you how to work up your land, rather than work up your land, rather than work up

the fence, and tells you how to work up your land, rather than work up his own.

There can be nothing lost to the average farmer by moderate trapnesting. On the other hand very much can be gained. Great egg-production will be found to be a ques-

Bell's Bronze Turkeys

tion of strain and not of breed. The cost of the nests to any handy man, with tools, need not exceed \$i\$ to 25 hens, and it will take but a few more settings a year to pay for thir. Every farmer should keep standard-bred fouls, not necessarily show bided here. settings a year to pay for this. Every farmer should keep standard-bred fewls, not necessarily show birds, but birds that are obviously all of one breed. It will pay him coming and going. His dressed chickens that he takes to market will look more even, and in the spring, settings from any healthy, standard-bred flock, are worth 75 cents to a dollar, instead of 15 to 20 cents a dozen at the village

Try trap-nesting, anyway. It will prove an education to your boys, if you are "too sot in your ways" to take much account of it yourself.

Bone Mills and Incubators

Would you alvise the purchase of a boundiffers after see that the continuous of the

Ont.

No. In almost every town and village there are one or more butchers who have a bone mill, and who cut the bone for sale, and as the bone costs te. a pound uncut, and about 25/cc. a pound ready cut for use, it would take a long time to make the would take a long time to make the small flock. (2.) We would not advise an incubator for hatching only 100 chickens, as eight or ten hens would do the work, and they can be bought or borrowed at almost any season If the chicks are wanted very early, the hatching can be done with hens, and the chicks are wanted very early, the hatching can be done with hens, and the chicks are wanted very early, the hatching can be done with hens, and the chicks are wanted to the distribution of the control of the con In almost every town

Best Place for Incubator

I have had such good success with my poul-try, that this year I will raise as many ast can shack with a Bocheiks incubator that I have shack with a Bocheik with the shack of the hope for a good season. Where is the best place to run an incubator I have a large back slock with earthen floor, a feed room adjoining my poultry bouse, and a well-lighted cellar, with cument floor, and could use any of these loca-tions—W. M., York Co., Ont.

You have three good places to run your machine, but as the temperature will be more uniform in the cellar, and thus asist in regulating the heat in the machine, we would advise the placing of it there. It is claimed that



the moisture is also easier to regu-late in a cellar, but the uniform tem-perature is its greatest advantage. You will find very clear directions with the hatcher, and by following them to the letter, you should have no trouble in getting good results from your venture. The hatching is the easiest part of it, however, and you must be prepared to handle the advantage of the early broods taken from the incubator. Your past suc-cessful experience should stand you in good stead in that particular. the moisture is also easier to regu in good stead in that particular.

90 per cent. of a Hatch.—I have used an incubator for some time and have found the results very satisfactory. In fact I would not undertake to raise chickens now without one. When the satisfactory is the satisfactory of the satisfactory in the satisfactory is a satisfactory of the satisfactory is satisfactory in the bout ninety per cent., and the chicks have been as strong and healthy in every respect as those raised in the natural way. I keep my incubator in the cellar.—A. W. Cameron, Meadthe cellar.-



incubators and Brooders. eccipt of only 15 cents, Your money returned if not pleased). O. SHOEMAKER, Box 1420, FREEPORY, ILL-

50 Young Bronze Turkeys For Sale

Sired by the lat Prize Young Tom at the Ken tucky State Fair. Hatched May 16, 196, and tucky State Fair. Hatched May 16, 196, and state of the State of the State of the Weight of 31 pounds. We should be supported by National Show at Toronto, winning the lat and and on Old Tom, and is to Old Hen, 1st and 2nd on Young Tom, and ist and 2nd on Young Hen, and the special for the best collection of Bronze and the special for the best collection of Bronze

James Ford & Sons, Drumquin, Ont.



CHAS. A. CYPHERS' Model Incubators and Brooders

On my Model Poultry Farm I now have coultry numbering 80,000 hatched and prooded in my famous Model Incubators

and Brooders. Buy-ing your incubators and brooders of a man who knows nothing (or next to nothing) about hatching and raising poultry is running a useless risk. Don't do it.



I not only sell you a Model Incubator or Brooder, but I add to them the valuable experience of years as shown in their construction. Model Incubators show excellent hatches, hatch every hatchable egg. The Model Brooder grow sturdy chicks. Send your order in to days.

Send your order in to-day, and get in line with the profit getters. Free catalogue for everyone.

THE MODEL INCUBATOR CO. 196-200 River Street TORONTO, ONT.

L DRILLING MACHINES

WILLIAMS BROS., Ithaea, N. Y.

AUCTIONEERS

T. E. ROBSON LIVE STOCK AUCTIONEER LONDON, ONT. 2 Belcher Street

GEO. JACKSON, Port Perry, Ont. PROVINCIAL AUCTIONEER Pure Bred Stock a Specialty.

LEVI A. W. TOLE LIVE STOCK AUCTIONEER Bowmanville, Ont.



SMITH & RICHARDSON

IMPORTERS OF

HIGH CLASS CLYDESDALE HORSES

We have now on hand only the choice imported colts Dashing King 3 years old, and Baron Columbus, the Toronto winner, as a 2 year old, Also a couple of good Canadian 7 and Come and see them at their stables at

COLUMBUS, ONTARIO

Oshawa Station, G.T.R. Myrtle Station, C.P.R.



LISTOWEL, ONT W. C. KIDD.

Importer of Clydesdales, Shires, Percherons Belgians, Hackneys, Standard-breds and Thoroughbreds

of highest possible quality and richest breeding. Have sold as many stallions the last year as any man in the business, with complete satisfaction in every case. I have always a largo number of high-class horses on hand. My motto: "None but the best and a straight deal." Will be pleased to hear from any one wanting a rare good one. Terms to suit. Long distance phone.

LISTOWELL P.O. AND STATION



Graham & Renfrew's

CLYDESDALES and HACKNEYS

Our Clydes now on hand are all prizewinners, their breeding is gilt-edged. Our Hackneys, both stallions and mares, are an exceedingly high-class lot. We also have a few high-steppers and carriage horses. Yonge Street cars pass the door every hour.

'PHONE NORTH 4483.

GRAHAM & RENFREW, Bedford Park, Ont.



Simcoe Lodge CLYDESDALES and HACKNEYS

Imported and Canadian Bred Clydesdales and Hackneys For Sale

Our stables have won Firsts and Championships at America's leading Shows, and a few individuals of the show-ring kind are always on hand. Come and see them.

Messrs. Hodgkinson & Tisdale, Beaverton, Ont.

YORKSHIRES of Choicest Type and Breeding



I have on hand 75 brood sows of Princess Fame, Cinderella, Clara, Minnie, Lady Frost and Queen Bess strains. My stock boars are true to type and of richest breeding. For sale are a large number of sows bred and ready to breed, boars fit for service, and younger ones of both scare. Pairs and trios

J. W. BOYLE, Woodstock, Ont

Oak Lodge Yorkshires

A large herd of choice Pigs of all ages on hand, quality guaranteed. No other herd has such a record in the show-ring, covering several years. Oak Lodge type of hogs are profitable breeders and ideal bacon hogs. Correspondence solicited.

J. E. BRETHOUR, Burford, Ont.

It is desirable to mention the name of this publication when writing to advertisers.

Feeding Live Stock

Prof. Cumming Before Nova Scotia Far

The view that it pays to feed stock liberally, does not always suit the idea of many farmers. I can illustrate this by the comments of a farmer who, with me, examined our cattle at Truro. I showed him the 1,800 lb. cow which has cost us about \$80 for feed during the year, about \$80 for feed during the year, an enormous amount as compared with the \$40 to \$45 he spent on feeding each of his cows. His cows would produce, to give them every advantage, about 5,000 pounds of milk each per annum, at which rate it would take 9½ cows such as his to do the same work as we were doing with one cow and \$80. If these arguments are valid then our best outlook is along dairying lines. There are whole sections and parts of every section, however, where beef-raising ought to be and can be carried on at profit.

FEED, ETC.

"Nova Scotia is essentially adapted to the raising of hay, grain, fodder, and roots, and I have yet to visit the really successful farmer with the avereally successful farmer with the average market, who does not aim to make the most out of these feeds. With exceptions, we do not produce grain as cheaply as parts farther west and we should manage our farms so as to feed and get the greatest profit from these sort of products.

"We can compare with any part of America in hay production, hence we should try to raise the best quality. Whether it is for dairy cattle or beef cattle, clover hay is more efficient whether it is for dairy cattle of section cattle, clover hay is more efficient than any other kind, also it will help to save the grain bill, and at less expense to the fertility of the soil. Especially is this true of dairy cattle.

"Feed roots effect a cheapness of fattening cattle and also of increasing milk-flow. With them you can use cheaper and coarser feeds and they minister to the health of all sorts of

stock.
"Peas, oats and vegetables, corn, flat turnips and clovers, may not have so effected a place on moist farms but have an undurable place on all other farms. If cows are milking, these feeds will maintain a milk-flow. If dry, they will promote their condition and help the milk-flow.

Are the Horse Interests Neglected?

"While all other branches of live stock have been helped in many ways by the governments of the day, both Dominion and Provincial, the horsemen to a large extent, have been left to shift for themselves." These to shift for themselves." These words, spoken by the Hon. Mr. Beck, in his address to the horsemen at their annual banquet in Toronto, last week, summarizes the opinion of an expert on the horse situation in Can-

as, exper on the horse studious in Casa and a.

Mr. Beck said that there was great danger of depreciation in the quality of light horses in the same of the same o

good foundation stock to breed good stallions to Miller took issue with Mr. Bock, on the question of mili-tary horses. Judging from the ex-perience of the past, he did not think that it was profitable for farmers to engage in the production of remounts.

There were other lines of breeding, such as the heavy draft, the high-class carriage, and hunter, that would

pay better.

Mr. John Graham, of Manitoba, stated that some eight or ten years ago, breeders in the west had been able to get splendid foundation stock in Ontario. To-day this stock was not so plentiful.

HAS TORONTO BEEN NEGLIGENT? HAS TORONTO BEEN NEGLIGENT?

Mr. Wm. Smith, president of the
Ontario Horse Breeders' Association,
who presided at the banquet, in a
splendid address presented the claims
of the horsemen for better recognition, not only from the Government,
but from the city of Toronto. The
city, in his opinion, had not given the
encouragement to the horsemen and
encouragement to the horsemen and
the special control of the stallion
had not given the
concurrent of the stallion
had been applied to the stallion
how being moved to Guelph, and
unless Toronto showed a more generous spirit in providing adequate acrous spirit in providing adequate ac-commodation for the show, it would probably go elsewhere.

other speakers, including Constable Harrison and W. K. McNaught, M.P.P., took the view that if there had been any negligence on the part of the city, it was due to some understanding.

690,000 HORSES IN ONTARIO.

The Hon. Mr. Monteith, Minister of Agriculture, placed the value of the horses of Ontario at \$80,000,000 and the number at 690,000. There too much haphazard breeding. too much haphazard breeding. In some counties, such as Perth and Huron, where line breeding had been followed, the highest average prize for horses had been obtained. Some horse shows, of which there are 400 held annually in Ontario, including those of the Agricultural Societies, were doing excellent work, while others were not, all depending upon the enthusiasm of the men controlling them. The fifty string realling shows. the enthusiasm of the men controlling them. The fifty spring stallion shows held last spring, did excellent work. Then came the harness and light horse shows, which set up high stan-dards for the people to follow. And last, but not least, came the Ontario Spring Stallion Show, which was ren-dering excellent service to the coun-liberal policy on the part of the Gov-ernment towards the horse industry, provided those interested in making requests for public monies had de-finite ideas and plans to present. One finite ideas and plans to present. One reason why Governments in the past had not dealt more liberally with the horsemen, was perhaps because the latter had not had a definite, well-thought out policy for the Government to follow.

ment to follow.

The banquet throughout was a most enjoyable one. Others who responded to toasts were: Mr. John Turner, Calgary; Mr. Robert Ness, Howick, Que; Mr. W. Hughes, M.P.P.; Dr. Andrew Smith, and Dr. Young. Messrs. W. E. Briggs, W. E. Wellington, and Noel Marshall Young. Messrs. W. I E. Wellington, and lacted as vice-chairmen.

We Must Aim Higher

C. F. W.

C. F. W.

The records of two cow testing associations in the Province of Quebec are full of interest. In one association, the highest yield of any cow in a certain herd during six months, June to November, was 132 lbs. fat. In a neighbouring herd the best yield was 250 lbs. fat. This is a difference like the company of This is not a contrast between a good and a poor cow, but between the best cow in each herd. In this case 20 cows of the one kind equal 44 of the other as regards value of product. Why should not the returns from socres, yes hundreds, of our dairy cows be increased by \$17 each. They could be, were farmers fully alive to the possibilities of systematic improvement.

In another association a more start.

In another association a more start-

ling difference was discernable. In one herd , the best cow yielded 490 lbs. fat during the full period of lactation, while the best cow in another herd gave only 14t lbs. With butter fat at 25 cents a lb., the one cow is credited with \$112.70, and the other with only \$85.82. This is a difference of \$87.35 between these two cows, Assuming that the cost of feed is the same in both cases, and is \$30, we find that 13 cows in the one case would equal 188 of the other.

The Dual Purpose Cow

Wm, A. Wallace, Carleton Co.

Wm. A. Wallace, Carleton Co.
Many men say that there is no
such thing as a dual purpose cow.
They claim that if a cow gives milk
enough to pay her way with \$25 or
\$30 profit, she is no use as a beef
producer and therefore is not dual

Such cows as the above-mentioned, Such cows as the above-mentioned, if properly bred and cared for can be classed as dual purpose. I have them in my own herd. I have bred and raised them myself. I have watched with interest how they have paid us as milk producers and then how nicely they have put on flesh, which would make them fairly profitable as beef producing animals, if we did not desire to milk them any did not desire to milk them any animals out of their wom make beef

able as beef producing animals, if we did not desire to milk them any longer. If we want to make beef animals out of their young, we can with line profit, but they must be bred and fed for that purpose. They can all the profits they can be a support of the producing sires, such as the Shorthorn for instance.

I have a crow whose dam was nearly purebred Holstein-Fresian, and crossed to a Shorthorn sire, giving me what! call a dual purpose cow. This was the support of the support of

latter cross.

I have not tried the Ayrshires and Holsteins, therefore do not know what they would produce. As the farmers of Ontario are situated, I think that they desire cows that will give fair returns as milkers. They can then raise some young stock for beef. On-tario will always need beef, no matter that they desire the second of the control o

some beef for the home market.

I strongly advocate using a pure bred Shorthorn sire of the right type every time and do not expect every beifer calf to be a dual purpose animal. Some of them will not be beavy milkers. The butcher will take these off your hands when young, and give you a paying price for them. Keep and breed from such heifers as prove themselves to be good milk ers. We will then soon have cows that will be a credit to Ontario farmers, and we will make twice the money out of our stock.

Ontario Department of Agriculture

PROVINCIAL AUCTION SALES OF PURE-BRED CATTLE (REGISTERED)

(150 head, Males and Females of Beef Breeds) will be held at the following points

GUELPH, March 4th PORT PERRY, March 11th

All stock inspected before being accepted. Only good representatives of the various breeds will be offered.

SPECIAL INDUCEMENT TO PURCHASERS IN ONTARIO

SPECIAL INDUCEMENT TO PURCHASERS IN ONTAKIO
Freight Palld: The freight on any animals purchased at these sales by
residents of Ontario, shipped to purchasers' station in Ontario, will be paid by
the Ontario Department of Agriculture. The original receipted freight bill
containing the point of shipment and destination, name and registration, number
of the animal purchased and shipped, the estimated weight for billing and the
rate charged per cwt., should be sent immediately to the Live Stock Branch,
Ontario Department of Agriculture, Toronto.

For catalogues and particulars regarding any of the sales, address the Secretary at the point of sale, or make application to

LIVE STOCK BRANCH, ONTARIO DEPT. OF ACRICULTURE, TORONTO

WILLIAM COOPER & NEPHEWS

BIRKHAMPSTEAD, SHENSTONE, LICHFIELD, ENGLAND

We are prepared to receive orders for HAMPSHIRE, SHROPSHIRE, SOUTH-DOWN, LINCOLN, COTSWOLD, LEICESTER and DORSET HORN SHEEP, BERKSHIRE and YORKSHIRE SWINE and SHORTHORN CATTLE, which we can purchase at close prices and will deliver at a reasonable commission

WILLIAM COOPER & NEPHEWS

Canadian Agent-W. GEO. CAVAN, Box 1057, Toronto, Ont.

Gombault's

The Worlds Greatest and Surest Veterinary Remedy 🛊 HAS IMITATORS BUT NO COMPETITORS I

SAFE, SPEEDY AND POSITIVE. Supersedes All Cautery or Fir-ing. Invaluable as a CURE for

FOUNDER, WIND PUFFS, THRUSH, THRUSH,
DIPHTHERIA,
SGIN DISEASES,
RINGBONE,
PINK EYE,
SWEENY,
BONY TUMORS,
LAMENESS FROM
SPAVIN,
OUARTER CRACKS,
SCRATCHES,
POLL EVIP
PARASITES,
BURNOWS

REMOVES

BUNCHES or BLEMISHES, SPLINTS, CAPPED HOCK, STRAINED TENDONS, SAFE FOR ANYONE TO USE.

Finds Caustic Ralsam to be Beltable

We guarantee that one tablespoonful of Caus Balsam will produce more actual results than a wh Every bottle sold is warranted to give astisfaction Write for testimonials showing what the most pro-nent horseems say of it. Frice, \$1.50 per bott Sold by druggists, or sent by express, charges pa-with full directions for its use.

The Accepted Standard VETERINANY REMEDY Always Reliable. Sure in Results.



Hope genuine without the signmen of the Sauvence, Williams Co.

Canadiana Appreciate Caustic Balsam The Balant Appreciate Causife Balant The Balant Balant Balant Till Balant for years, and it is giving my easteners the best of different allineats and also used it myself or different allineats with the best result for much cannot be said in its fator.—W. T. PRICE, Herkeley, Ont. Finds Chustic parameter to be past three pears been a user of GOMBAULTS CAUSTIC BALSAM, and have found it to be all that is claimed for it, and have in a great many instances recommended its use to whare. B. D. KTRK. Antiponish, N.S.

Sole Agents for the United States and Canada. The Lawrence-Williams Co. TORONTO, ONT. **OLEVELAND, OHIO.**

It is desirable to mention the name of this publication when writing to advertisers

RAISE CALVES

Our BOOKLET plainly tells the story of Blatchford's Calf Meal with convincing testimonials from some of the 30,000 progressive farmers who have had excellent the story of the WOOD BROS. - Paris, Ont TAYLOR BROS., Ltd., - Carleton Place, Ont J. A. SIMMERS - Toronto, Ont J. H. BYERS - Strafford, Ont

AYRSHIRE BULLS

One March and one April calf, also a few last fall calves by the champion Douglasdale (imp.)
W. W. Ballantyne, "Neidpath Farm," Stratford, Long Distance Phone

BURNSIDE AYRSHIRES

'MPORTED AND CANADIAN-BRED WPORTED AND CAPADRAN "PARE"
Prize-winners at all the leading shows. I lid the award of merit given by the Board of irectors of World's Fair, St. Louis, to the seder of largest number of prize-winning Trainers at all Expedition. I am leading Trainers at said Expedition. I am lead to receive and attend to orders place as "AND STATEM" STATEM. R. R. NESS, JR. HOWICK, QUE., P.O. AND STATION

RAVENSDALE STOCK FARM

RAVENSDALE STOCK FARM Ayrshires, Dydeesdates and Vorkshires Gae Vasrling Bull, one Senior, and one Junior Gae Vasrling Bull, one Senior, and one Junior producers for sale at all times. Imported and Canadian bur. & KAY, Philipsburr, Qse. St. Armand Station, 50 miles from Montreal on U.T.H. Bell Telephone.

Spring Brook Ayrshires

Produced nearly 7,000 lbs. of milk each, test-ing 49 per cent. of butter-fat during the years of 1994, 05 and '06 Having sold one of my farms, I offer for sale about 30 head of various ages. Write for xices W. F. STEPHEN, Box 163, Huntingdon, Que.

N. SANGSTER

ORMSTOWN, QUE.

Breeder of pure-bred Holstein-Friesian cat-tle; nothing but record of merit cows kept in our berd. Stock for sale of both sexes. Write for what you want; visitors welcome.

If You are in Need of a First Class Young Imported Bull

or a good Canadian Bred one, write or

H. J. DAVIS, Woodstock, Ont. Importer and Breeder of Shorthorns and

JOHN CARDHOUSE & SON, HIGHLAND Breeders of Scotch and Scotch-topped Short horns, Shire Horses and Lincoln Sheep



At present offering a few choice Show Bulls; also fe-males, and one Shiro Stallion, three years old, and two Year-ling Co'ts.

Farm 34 miles from Weston tation, G. T. R. and C. P. R.,

THE -

Salem Herd of Shorthorns

is headed by the champion Gilt Victor (Imp.) Cattle of all ages for sale.

J. A. WATT

ELORA STA., G.T.R. & C.P.B. SALEM P.O-

PROSPECTING MACHINES Pasteet drillers known. Greet money earners!

WEST MICHIGAN FARMS OCEANA destive county in Base. Fruit, Grain, Clores, Affalfa, Petatoca, Stock, Poultry \$10, 650, 850 to \$50 per Array will produce deable out first year. All stam, easy terms amend for list. J. D. B. HANSON, HARTZ, MICE.

The Canadian Dairyman **Farming World**

Published by The Dairyman Publishing Company, Limited and Farming World, Limited.

1. THE CANADIAN DAIRYMAN AND FARMING WORLD is published every Wednesday. It is the official organ of the British Columbia, Manitoba. Eastern and Western Ontario and Bedford District Quebec Dairymen's Asociations, and of the Canadain Hoistein Ayrshire, and Jersey

canadain Holstein Ayrahiva. and of the Cattle Breedenin Ayrahiva. The Holstein Ayrahiva and Jersey as Bascaliprion Paice, 310 a year, strictly in advance. Great Britain, 8120 a year, For all countries except Canada and Great Britain, add 50c for postage. A year's subscription free for a club of two new subscription free for a club of 3. REMITTARGES Appared.

A year's subscription free for a club of two new subscribers.

3. REMITTANCES should be made by Dost Office or Money Order, or Registered Letter. Fostage \$1.00. On all checks and \$2.00. On all checks and \$2.00. On all checks and \$2.00. On the company of the the barks.

4. CFANGE OF ADDRESS—when a change of address is ordered, both the old and the new addresses must be

Even.

ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week; issue 6. WE INVITE FARMERS to write us or any agricultural topic We are always pleased to receive practical articles.

CIRCULATION STATEMENT.

CIRCULATION STATEMENT.
The paid-in-davance subscriptions to The
Canadian Dairyman and Farming Werld
exceed 11,506. The actual circulation of
each issue, including copies of the paper
sent subscribers who errole, the paper
sent subscribers who errole, exceeds 1,4,
00, O'l this issue of the paper 15,000 copies
have been printed.
Sworn detailed statements of the circulation of the paper, showed its distributation of the paper, showed its distribumailed free on requis.

OUR PROTECTIVE POLICY.

We want the reader of The Gandian Dairyman and Fact with our advertisers with our assurance of the advertisers. Should any subscriber have cause to be disastisfied with the treatment in sections. Should any subscriber have cause to be disastisfied with the treatment in sections of the section of the se OUR PROTECTIVE POLICY ..

COMMUNICATIONS should be addressed THE CANADIAN DAIRYMAN AND FARMING WORLD PETERBORO, ONT.

TORONTO OFFICE: Rooms 506-507 Manning Chambers, 72 Queen St. West, Toronto.

SECURE SEED SUPPLY EARLY

It is none too early to begin seleting seed for next spring's operations. The season of 1907 was, on the whole, not the most favorable for the production of good seed. More careful selection will be necessary than usual. There is a shortage of suitable seed for the West, and the East will be called upon to supply a large proportion of this shortage, especially of oats.

The Government loan of \$3,000,000, to be applied to securing seed for the "homesteaders" and others in need of it, in the West, should be expended, as far as possible, in Canada and distributed among our own people. There is a large surplus of good oat seed on Prince Edward Is-

Britain and land it in the West, cheaper than they can bring it from the Island Province, and pay price the people there are asking for oats. They should make sure of their ground on this point before sending abroad for supplies.

At all events the scarcity of good seed in the East and the special demand for it in the West, is something our eastern farmers will have to reckon with the coming season. The supply should be secured early. This will make it possible to test its vitality before spring opens. The vitality of all seed sown should be tested. It shows how much to sow, and makes a good showing at harvest time more certain.

THE RURAL TELEPHONE

One of the measures proposed for adoption at the present session of the Ontario Legislature, contemp'ates the application of the local improvement system, under which sewers. sidewalks, etc., are built in towns and cities, to the extension of rural telephones in the open country. As it stands at present, the law provides that a group of farmers may apply to their township council for the right to construct a local telephone line. It furthers provides that the council may construct and maintain, making the cost of the undertaking a charge against the property benefited. The new measure amends this statute, so as to permit of the issue of debentures for the purpose of meeting the cost of construction. Therefore, instead of those who desire to secure the establishment of a telephone service, having to bear the entire cost at one payment, the expenditure will be spread over a term of years, thus rendering it easier to finance the enterprise.

Such an arrangement, as is proposed, should mean that a large propor tion of the farmers in Ontario, will, in a few years, have a telephone in their homes. Under the present plan of forming local companies, the rural telephone is being rapidly extended. If the local improvement plan becomes law, and a farmer can secure his 'phone by the payment of a small yearly tax, aside from the regular service, the movement should spread by leaps and bounds.

The rural telephone takes second place to none of the modern improvements that are making life on the farm more enjoyable and bringing the farmer in direct touch with the business life.

In the course of a year, the time that is saved by the farmer who has a telephone, often pays for the cost of the instrument ten times over.

In several of the sections in the United States that were visited recently by our representative, who is contributing the articles on free rural mail delivery, the farmers interviewed were enjoying the benefits of rural telephones, as well as those of free mail delivery. Their verdict was unanimous that both have become neland, but those who have charge of cessities of modern farm life. Our "possible feed, and care, and every

THE NEW MILK STANDARD

The Ontario Board of Health, in an endeavor to improve the conditions of the market milk and cream trade of the province have affixed their seal of approval to a set of regulations, which, if enforced, must work hardships on a great many producers and milk-men. The chief of these have to do with the location and proper sanitation of milk byres, and buildings used for keeping or handling milk, the healthy condition of herds, including regulations regarding feeding, and so forth, and the adoption of a new milk standard. The standard suggested is that all milk must contain not less than thirteen cent. of total solids, of which three and three-quarters per cent. should be chemically dry butter fat.

It is generally recognized that there is much room for improvement in the condition of the market milk trade. To determine the proper ways and means of effecting the desired improvement, however, is a difficult matter, and requires careful consideration. Men who are detailed for such a task, should be fully conversant with all the conditions governing the industry. They should consider the matter impartially. They should not place themselves in the position of the "beguiled" housewife, who cannot realize why she cannot get for five cents a quart of milk as pure as a cow can make it. Nor should the producer's end of the business be the only consideration. The position of the producer, middleman, and consumer, all must be considered, and even justice handed out to all.

Now, in the case of the new standard for milk, the call is for 3.75 per cent. article. Does this not seem high? contention of most authorities that a milk with a smaller fat content is that they were surprised at the scope more nutritious and, consequently, more valuable for infants, than a rich milk?

Leaving the matter of comparative consumptive values of rich and poor milk out of consideration, however, can the average farmer supplying milk for town or city use, produce profitably milk containing 3.75 per cent. fat? The average cow of large production to-day, will not reach that mark.

Just on this point, a contributor to the Toronto News gives some timely information relative to the records of the dairy herd at the Guelph Agricultural College for twelve months, from December 1, 1905, to November 30, 1906. The herd was composed at that time of a specially selected lot of animals, totalling nineteen, and including nine Holsteins, four Ayrshires, three grade Ayrshires, one Jersey, one grade Jersey and one Ayrshire Jersey. The writer says:

"Their feed was composed of hay, " corn, silage, bran, gluten feed, corn " meal, oil cake, ground oats, and " mangels. This lot of cows was the " best selected lot of cows that could "be procured, it was given the best

" still we find that they did not come "up to the standard set by our pro-" vincial Board of Heaith, which stan-"dard they say the farmer should " reach. The average test of this herd reached only 3.70 per cent. butter fat. Again, the Holstein cow which held the record in 1906, for "the largest quantity of milk given "in 30 days, and owned by the "Guelph College, averaged 3.50 per ent. butter fat. Probably \$1,000 would not buy this cow."

Is such milk as that produced at Guelph unfit for domestic use, because it was below the standard set by the Provincial Board of Health? Must a man with a 8,000 or 10,000 pound cow get rid of her if her milk falls below this standard, as it almost invariably will?

To get milk to the consumer almost as pure as it leaves the cow, is the most important matter. Pure milk adulterated with pure water is far better than contaminated milk. True, we don't want either, but the matter of standard should be second-

IT SURPRISED THEM

The inviting of the members of the Ontario Legislature to visit the Ontario Agricultural College, at Guelph, was a happy thought on the part of Hon. Mr. Monteith, Minister of Agriculture. The history of the Ontario Legislature records many debates in which criticisms of expenditures for Agricultural purposes, were based upon insufficient knowledge. Only comparatively few of the members of the Legislature have an intelligent conception of the importance and needs of the agricultural interests of the province. A number of the Again, is it not the members, who visited the College last week for the first time, confessed and value of the work carried on at that excellent institution. The members enjoyed Hon. Mr. Monteith's hospitality, were benefitted by what they heard from the professors at the College, about their work, and by what they saw for themselves. They are now in a better position to discuss intelligently the items of expenditure for the work of the College, that are laid before them each year. The province at large will reap the bene-

BETTER REPRESENTATION WANTED

There has been considerable discussion at all of the various breeders' organizations held in Toronto during the past two weeks concerning representation on the board of directors of the respective associations. These meetings are nearly all Dominion organizations. They have all been largely attended by Western members, and these are the men who have advanced the claim that they are entitled to better representation on the board of management than has been accorded them in the past.

While it is only just to say that land, but those who have charge of cessures or modern rain inc.

The loan seed fund, claim that they readers are invited to send us their some nurchase out seed in Great views on these matters.

"show up to the best advantage, and breeders in the outlying provinces." most of the breed associations have every consideration, the cause of the representatives of these asociations from the outlying provinces, in some cases, is a just one. These are Dominion concerns, and representatives from each of the provinces should have a say in their management. By having too large a proportion of Ontario members upon the board of directors, there is room for complaint that many regulations inconsistent with conditions prevailing outside of Ontario will be enacted.

The matter of travelling expenses has been raised as one objection to the placing of eastern and western members on these boards. money, however, that is used in paying the expenses of the directors to their annual meetings, is contributed to a Dominion organization by its nembers all over the country. There hould be no hesitancy, then, about utilizing these moneys in the interests of the provinces east and west of Ontario. They have contributed their quota to the general funds. They should be well represented in the management of all the associations, and the travelling expenses of their representatives, should be met as willingly as are the expenses of those from Ontario. The method by which these representatives shall be selected is the point that the Associations have still to settle.

While the members of the Ontario Legislature were visiting the Guelph Agricultural College last week, Hon. A. G. MacKay, the leader of the Opposition, announced the belief that the farmers in the Legislature have not advocated the interests of the farming community with sufficient emphasis. Instead of the provincial expenditures for agricultural purpose being only slightly over \$400,000 a year, they might well, he thought, be over \$500,000 a year. That was an important, and a creditable an nouncement.

The Ontario Department of Agriculture is to be congratulated upon having made a start in horse breeding at the Guelph Agricultural College. So far, however, only a start has been made. Some carriage horses, at least, should be added to the stock at the College. There is a crying need, also, for better stable accommodation for the horses. Some

rew Fhillps, R. N. Walsh, M.P., Huntingdon; M. T. Robb and Albon Mc-Arthur, Godmanchester; John Rennie and Charles Hyde, Hinchbrook; D. McCuregor Moody, Dundes; Dr. J. O. Slewart, St. Aniect; and James Bryword, St. Phillps for his services as clerk at the Board meetings during 1907.

ing 1907.
At a subsequent meeting of the Di-At a subsequent meeting of the Directors, Mr. Andrew Philips was elected president; Mr. R. N. Walah, M.F., rectors, Mr. Garanter, and Mr. W. S. Maclastra, and Mr. W. S. Maclastra, and Mr. W. S. Maclastra, and Mr. W. S. Walah, M.F., and M. T. Robb was pointed a committee of arbitration spacing and substantial and the second properties of the sec

Quebec Breeders Convene

meeting of the General Stock Breeders' Association of the Province of Quebec was held at Montreal on February 18th. The annual report of the Association was presented and the election of officers took place.

of the Association was presented and the election of officers took place. The following officers were appointed for the ensuing year:—Patron, tha Hon. Sidney Flaher, Minister of Agriculture; Honorary President, Mr. Brober, Ness. Marchael, Mr. Brober, Ness. Marchael, Mr. Brober, Ness. Marchael, Mr. Brober, Ness. Marchael, Mr. Brober, Ness. Mr. Brober, M elle, 8t. raut transcription the Sheep Breeders' Association; Louis Lavallee, 8t. Guillaume, representing the Swine Breeders' Association; and Joseph Delande, L'Acadie, representing the French-Canadian Horse Breeders' Association.

The Hon. Sidney Fisher, Minister of Agriculture, in his opening remarks, referred to the success which had attended the Stock Breeders' Asnad attended the stock Breeders As-sociation since its formation 13 years ago. In 1895 the Association num-bered only 50 members, whereas at the present time there were nearly

The Nationalization of live stock records which occurred two years ago, had proved beneficial to the g neral interest of the breeders.

interest of the breeders.
The speaker stated that as a Province devoting itself to the dairy interests, Quebec should promote also the raising of the bacon hog. He strongly advocated the rearing of Ayr shire and French-Canadian breeds of cattle, which he considered would prove the most advantageous in this prove the most advantage on this part of the the most advantage of the part of the the most advantage of the part of the the memory of the the memory of the careful in the selection of their breeding stock. Every one might follow his own inclinations as to the class of horses he would keep; but, having once made up his mind, let him vites to that breed and keep the best. Dr. Rutherford emphasized the necessity of the breeders specializing in one breed and at all times see that they procured the best class. Ontario, the doctor continued, had been reaping big profits by sending more pure bred stock all over the country than any other Province, especially in the lines of milk cows and horses.

The Wail of the Wasteful

"I can't afford to buy a Cream Separator," is the occasional cry that reaches us. No one who keeps cows can afford to be without the genuine

De Laval Cream Separator

The machine that saves from \$10 to \$15 per cow each year-the Separator that is so largely imitated but never equalled. There's an easy way to pay.

The De Laval Separator Co'v 173-177 William Street MONTREAL

the associations and the report has been so drawn up to cover the opera-

tions of each organization.

The French-Canadian Cattle Breed-The French-Canadian Cattle Breed-ers' Association has 107 members; the French-Canadian Horse Breeders' As-sociation, 30; the Swine Breeders' As-sociation, 125;; and the General Stock Breeders' of Quebec has a total mem-bership of 387.

The French-Canadian Cattle Breed-

The French-Canadian Cattle Breed-ers' Association report shows that a balance remained to their credit last year of \$847.88, but in their estimate of receipts and expenditure for 1908 this Association will have to provide for a deficit of \$901.90. Two breeders availed themselves of the means plac-ed at their disposal by the Minister of ed at their disposal by the saliniser Agriculture, to ascertain the value of their herds through the Record of Performance test for pure-bred cows. Included in the estimates for this year, is a sum of \$200, which the As-

in the selection of their breeding of the sheep pens are being utilized as box stalls for horses. Such a condition should not be allowed to the breeders allowed the best case.

The annual flexible province is that the past year has been and placed to the breeders allowed the best case. On the should not have the present and placed in cold storage units and the past year the past year.

The province is the past year the past year the

that the Association is in a flourishing condition. According to the estimates for the ensuing year, they anticipate a surplus of \$238.45.

ticipate a surplus of \$238.45.

The report of the Swine Breeders' Association reveals the fact that after wiping off a deficit of \$16.44 on 1906 accounts, they have at present a baiance to their credit of \$434.37. It is anticipated that over \$600 will be available at the end of the present pear. The report concludes by saying that the era of deficit is over and he Association counts upon hereful that the same of the same and the s

Stock Breeders' Association, it is stated that Mr. Robert Ness, honorary president of the Association, has been elected president of the National Live Stock Association, while the Hon. Mr. Garneau, president of the General Stock Breeders' Association, has been appointed one of the three members of the Executive Committee. Mr. Nap

Creamery Department

appears an article entitled "What Influences Moisture." This was written by Dr. O. Jensen of Denmark, and translated for the New York paper by Mr. J. H. Monrad. The following is a summary and may be appropriate at this juncture:

Constructor at the Kaigaton Dairy and to super a large amount of moist ure and have a large over-run," thus spoiling the quality of their butter, and the American Creamery" of Jan. 8, on account of the complex nature of a large amount of moist ure and have a large over-run, "thus spoiling the quality of their butter, and the work of the complex nature and have a large over-run," thus spoiling the quality of their butter, and have a large over-run, "thus spoiling the quality of their butter, and have a large over-run," thus spoiling the quality of their butter, and have a large over-run, "thus spoiling the quality of their butter, and have a large over-run," thus spoiling the quality of their butter, and have a large over-run, "thus spoiling the quality of their butter, and have a large over-run," thus when childed, will not allow a violent of "the whole question is an understanding of the butter to mation which is given first. In the small fat globules of cream are enveloped with a very thing over-looped with a very thing over-looped with a very thing to over-looped with a very thing of the butter for-mation which is given first. The small fat globules of cream are enveloped with a very thing to very looped with a very thing is the barriag apart of this membrane. In connection with this membrane is the partial fat globules for a butter for-mation which is given first. The small object of cream are enveloped with a very looped with a very looped with the with a very looped with the with a very looped with the with

the fat the melting point and solidify-ing point are not definite. What is commonly termed the solidifying commonly termed the solidifying point is the temperature at which the first crystals appear when first crystals appear when the cooling of the melted fat is done quickly. If of the melted fat is allowed to cool gradually, a solidifying point will not be noticed, but instead, there will be a gradual crystallization of the whole mass. The explanation of the fact that the milk fat globules can be cooled so much, and still be liquid, is their smallness.

cooled so much, and still be liquid, is their smallness.

A perfect crystallization is impossible unless the globular form is broken. When this is accomplished, the fat will solidify, and the globules coalesce. The liquid fat globules will resume the globular shape after each concussion, thus making conglomeration impossible at this stage. On the other hand, if the liquid fat is partially crystallized or solidare slow to make their globular shape and they adhere by the aid of the liquid fat they contain. If this crystallization has proceeded too far, the globules will not adhere any more than will particles of dry clay.

During the formation of the butter, the two changes taking place are the gathering together and solidification of the fat globules; the former taking place better at higher temperatures and the latter at lower temperatures.

taking place better at higher tempera-tures and the latter at lower tempera-tures. However, it is best to cool the cream thoroughly before churn-ing, otherwise it is difficult to get the smallest fat globules firm enough be-fore the butter formation commences and then the country and quality of and then the quantity and quality of the butter is reduced.

the butter is reduced.

The apparently sudden butter formation is caused by the crystallization in the large globules commencing nearly at the same time and developing in the smaller once as soon as they conglomerate. Thus we may hasten butter formation by adding to the cream some other cream in which crystallization has treat the sup-In this way, one may treat the sup-plus cream in a small churn and when it "breaks" strain the fine granules into the large churn, thus shortening the churning period.

The direct causes of influence upon

moisture are:— The Feed.—This affects the melting point of the fat. Any sudden change of feed which gives a softer

ing point of the fat. Any shoden change of fede which gives a softer butter fat will result in the churning will make the butter too moist.

The Size of the Fat Globules.—In butter, the relative -volume of fat globules and the intermediate space—that is of fat and other matter—is reduced, and thus milk with chiefly small globules—as for instance milk from cows far gone in their lactation period—will be inclined to produce the globules are considered to produce the globules are considered to the globules are churning will be more difficult and thus the temperature will be raised to facilitate this process. This higher temperature will result in an increase of moisture.

The Richness of the Cream .- Prac-The Richness of the Cream—Practice has shown that the richer the cream the greater will be the moisture content of the butter. In rich cream, the space between the different fat globules is small, and hence unite much more quickly and hold more moisture than in this cream.

moisture than in thin cream.

The Pasteurization of the Cream.—
Experiments show that pasteurization of the cream contributes to the reduction of the moisture content of the

The Cream Ripening .- Because the

fat globules will contain the largest amount of liquid fat when the churnamount of liquid fat when the churning is done at temperatures between the solidifying point and the melting point of the fat. This will be between the temperatures of 68 degrees and 86 degrees F, and at these temperatures the butter will come more quickly, but the yield will be poor and the butter will contain a large amount of

The Treatment in the Churn after Butter Formation has Commenced.— Butter Formation has Commenced— Because the butter globules clash with much greater force than do the microscopical fat globules, they should be cooled (by rinsing with cold water) in order that they do not heat enough to exide together. The water should be coiled that the butter than the commence of the cold water should be coiled to that the butter of the cold water should be coiled to that the butter of the cold water should be coiled to the cold water should be c

eliminated.

Salting—Because each particle of salt attracts moisture to itself and thus causes the collection of water in small drops, salt promotes the removal of water in a high degree. The larger the drops the more easily will the water be removed, herefore the salt should not be too fine; nor should it be coarse that each particle will not dissolve in the water it attracts to itself.—T. it. Binnie, On-

Potash is Essential For All Crops

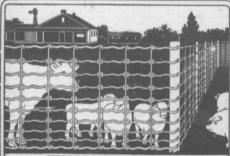
This most important Plant Food may now be obtained of all leading fertilizer dealers in the highly concentrated forms of Muriate of Potash and Sulphate of Potash.

The demand for these Fertilizers is now so great that it is necessary to order early to insure getting supplies for this season.

A Bulletin containing the tabulated results of Fertilizer experiments, conducted throughout the Dominion during 1907, has just been issued and may be obtained gratis on application to:-

The Dominion Agricultural Offices of the Potash Syndicate

1102-1105 Temple Building, TORONTO, ONT.



IMPORTANT, TO FARMERS

Your fences are your fortress against loss and damage. They must be strong enough to resist invasion from without, and to keep within bounds your flocks and herds. You can't aftord to take chances on soft, slack, or brittle wire fences, which may fail just when most needed.

Peerless Woven Wire Fence

has the elastic springiness and resisting qualities that make an A 1 farm fence.

Once up it lasts—no breaking—no falling down. There are reasons why. We can't leid them all in this ad, but if you will write to us we will send you some ovaluable fence facts.

The Banwell Hexie Wire Fence Co. Ltd. 9

Dept. c, Hamilton, Ont. Winnipeg, Manitoba.

It is desirable to mention the name of this publication when writing to advert

Defects That the Patron Controls

"If there is a defect in milk cr "If there is a defect in milk cr cream, even a good maker has diffi-culty in covering it, said Mr. G. H. Barr, in speaking on the "Care of Milk" at the Covansville Dairy-men's Convention recently, "Seven-eighths of all defects" said he, "are due to bad flavor. This bad flavor is in turn due to improper care of milk between six o'clock at night and six o'clock in the morning on the farm."

Mr. Barr pointed out the following defects that are under the control of

the farmer:
To correct the gassy milk, and tra-To correct the gassy milk, and trace the origin of gassy curis, the local inspector makes up cheese from samples taken separately from every patron's milk. In following the gassy specimens back to the farms whence the milk came, it was found that the milk had been over night on the wag-on in the barn yard or pear it, or near the hog pen and been dipped and aerated in surroundings where bad fisavors could enter the milk or else the milk had been kept in dirty or rusty cans or palls. or rusty cans or pails.

The "Fruity" flavor was the most difficult to deal with and was due always to rusty or unclean cans. The makers could reduce the likelihood of makers could reduce the likelihood of this flavor occurring by the simple ex-pedient of boiling the whey to 165 degrees of heat. It keeps the whey and cans and tank sweet.

Another evil that the maker has to contend with is over-ripe milk or milk that is allowed to get too warm milk that is allowed to get too warm or nearly sour. Fresh milk testing, according to the factory rules atl. 7 and kept at a temperature of 50 degrees over night only goes to a test of 2 the next morning at the factory, whereas the same milk kept over night at a temperature of 80 will go to a test of 3 in the morning and will scarcely pass through a separator at all and is unfit for making cheese.

It takes much were of this sect of the section of the

att and is unit for making cheese.

It takes much more of this sort of milk to make a pound of cheese than it should and entails a loss of \$10 a day in a small factory. A pound of cheese may be made out of half-and and that makes a difference equal to sane half a cent a pound on the

The Cream Ripening.—Because the chocost may be mane out to mane-bacterial actions in cream change the pound less of milk if the milk is right albumen in it (in some degree) the moisture content of the butter is increased (within a certain limit) with che acidity of the cream.

Churning Temperature.—Butter formation takes place best at the temical commation takes place best and will eventually, completely superafter crystallization, contain enough load to sold test.—J. W. Mitchell, liquid necessary for adhesion. The Kingston, Out.

Cheese Department

Makers are invited to send contributions to this department, to ask questions on matters relating to cheesemaking and to suggest subjects for discussion. Address your letters to The Chiese Maker's Department.

Making Whey Butter

Few patrons of factories would throw away from \$800 to \$1,000 a year, if they knew it. Yet, according to the claim of Messrs. J. Bissell & cons. proprietors of the Willowdale Cheese Factory, Brockville, Ont, that much money was made by them in their factory last season from the manufacture of whey butter, which money otherwise would practically have been thrown away.

have been thrown away.

The Messrs. Bissell give the following statement of the work done at their factory last season: 2,416,500 pounds of milk were received at the factory; 2,732 boxes, or 220,185 pounds of cheese were made, and 6,308 pounds of whey butter was manufactured. This whey butter represent the control of th

not superior, to that manufactured from cream.

The manufacture of whey butter has been discouraged by quite a a number of dairy authorities, who claim that the process is not a profitable one, and that the butter manufactured is usually of a very inferior quality. This latter they attribute to the fact that the practice places in the way of makers a temptation to overthrow, this resulting in an injury to the cheese trade. In many cases the whey is kept in unsanitary whey tanks. The butter made therefrom is necessarily of a questionable character. Messrs. Bissell & Sons claim that statements such as these are ridiculous. They say that makers have no opportunity to skim the milk. The milk is delivered only once a day, is made into cheese, and the whey skimmed and made into butter the same day.

These men extend a cordial invitation to all who are interested in the making of whey butter, to visit their factory, that they may see the thing satisfactorily worked out. Here they will see elevated tanks conveniently arranged for holding the whey, and kept in a good, clean and sanitary condition.

condition.

As regards the profits accruing from the manufacture of butter from whey, that depends largely upon the size and capacity of the factory. In such a factory as the Willowdale, where over 200,000 pounds of cheese are manufactured annually, the practice is a most profitable one. At the annual meeting of the patrons of this factory recently, it was unanimously decided to continue its manufacture during 1908. The people seem rather unwilling to throw away \$1,000 a year which to them is clear profit.

Defects in Quebec Cheese

Quebec cheese was scored rather severely by Mr. G. H. Barr, while speaking at the convention of the Bedford District Dairymen's Association, held at Cowansville, Que., recently.

recently.

As a cheesemaker and instructor, he spoke many plain truths. He stated that he found that the best cheese made in Quebec, came from the Eastern Townships. Still Ontario cheese was better than Quebec cheese, and there was no reason for it. Quebec had better milk, better water, better pastures, than anywhere else in Canada, and if the same study was put on cheese making that there was else on cheese making that there was else

where, the best cheese in the world could be produced in the Eastern Townships.

DEFECTS.

Defect No. One, was bad flavor. This was due to wrong care of the milk by the farmer, to the wrong condition of the whey vats at the factories, and to the use of bad water in the making of the cheese.

Defect No. Two, was loose and open texture. In nine cases out of ten this is the fault of the maker. It is caused by salting the curd too early in the manufacturing process, or to leaving too much moisture in the curd.

Defect No. Three is found in cases of rough mealy texture. It is impossible to make smooth-textured cheese from over-ripe milk. Mealytextured cheese is bad to eat, has too much acid, and crumbles on the consumer's olate.

Defect No. Four is soft and weakbodied cheese, which will not resist pressure any better than butter.

Defect No. Five is the poor finish often found in Quebec cheese. They need turning in the hoops and the makers should get away from their present reputation of putting a poor finish on their product.

Defect No. Six is the mottled color often found, early in the spring and late in the fall. This was due to a continual increase of the richness of the milk and is caused also by the he milk and is caused also by the frequent habit of leaving a small lot of cheese over from one day's make to be mixed with the next day's lot.

to be mixed with the next day's lot.

Mr. Barr sirenuously advocated the necessity and benefits of next and branching of the cheese. This branch branching of the cheese. This branch branching of the box small, put on the flap of the box small, put on the flap of the box mall, put on the flap of the box mall, put on the flap of the box would not be obliged to handle over a cheese to find it. In inspecting thousands of cheese, there was always the necessity of slighting some cheese and whole lots of cheese were often condemned on the bad quality of one day's make. If every day's make of cheese was branded separately, that lot on receipt could be sampled by simply taking one from each day's make and, in such cases, the factory might lose on only five cheese instead of on 50.

The buyers now have to guess at

on only five cheese instead of on 50. The buyers now have to guess at the quality, under the prevailing conditions, and they would be glad to give better satisfaction if it were possible, by the simple method of having the produce arranged in a way that the testing of five would give a faithful guide as to the quality and texture of the 50.

For Keeping Cheese Fresh

Cheese that is in danger of becoming dry and hard, can be kept fresh and moist, by wrapping it in a napkin or old towel, wrung out in vinegar. Many claim that the flavor of the cheese is improved by this treatment.

Invest Now in Land in the Canadian West

Experience has proved that all good land in the Canadian West, located in a good district, and within 20 miles of a railway station, or nearer, is worth at least \$25 per acre for Home-making. 160 acres of such land will return annually in net receipts as much as 100 acres similarly situated in Ontario, which sells for \$4,000 to \$8,000.

We hold the Exclusive Agency for large blocks of selected lands in Western Canada. Prices from

\$8 to \$25 per Acre

In 1906-1907 we sold over 300,000 acres. We give SPECIAL TERMS to actual settlers. We allow such to pay for land on the

Crop Payment Plan

Industrious, experienced, thrifty men, if they buy from us, are sure to succeed, because we are prepared to assist them in case of emergency, such as loss by fire, frost, loss of stock or sickness. If you are a Tenant Farmer, own your farm—we will assist you. If you are a farmer's son, or an experienced farm hand, and wish to start on your own account, write us.

WE WANT RELIABLE REPRESENTATIVES IN EVERY COUNTY.

Address F. W. HODSON, MANAGER LAND DEPARTMENT

Union Trust Company, Limited 174 Bay Street - - - Toronto, Ontario



Business Systems Commercial School

52 SPADINA AVE. TORONTO

FOR THE FARMER'S BOY

Those who head in Professional and Business life to day are the user sho, a few years ago, were bors on the farm, pleking Potatoes, hoding Turnips, feeding Cattle and driving Borses. Those who will be leaders in the Professional and Business life of the future are the boys now on the farm doing the Winter's chores.

BOYS, if you would be among the winners, let Business Systems Commercial School give you the right start. We are a new School; an up-to-date School; "Leaders" in the Business College World.

Full Particulars Free upon request

How Georgie's Dollar Doubled

wish I had your chance to claimed, as her brother emprised his purse. I defend the oven and pecks of it few out. I'd let it be there mellowing in the sun a few days, before plantical his purse with the sun and the sun and the sun and the sun a few days, before plantical his purse. I do not not support the sun and the sun a few days, before plantical his purse, and the sun a few days, before plantical his purse, and the sun a few days, before plantical his purse, and the sun and the Everything in the crop-raising line succeeded under their shrewd outch. Now, only one son remained in the home nest, and it's yieldings failed to satisfy his ambitious nature. The farm produce was marketed by this same Frank, but the procuse of the same frank of the procuse of the same frank, and sold their beef, poultry and the same frank, and sold their beef, poultry and typerables with his own. Georgie was ailing and envious. Like the boys, she would have money of her own, if she could get it. But the city was far away, and she was in poor health and young. She could only wait and grow strong and old. The latter she was sure to do while waiting for the former, she told her-self, discontentedly, so she seldom skipped out of doors, and dug in the earth, but sat in the shade, and bemoaned her fate. moaned her fate.

"A dollar more than I counted on getting," shouted Frank, tossing it high above his head. "What would you do with it if I gave it to you, Geordie?"

Geordie?"
"Double it," she replied promptly;
"halve it, and give it back."
"Ho, ho, how, I'd like to know?"
"I'd have to find out how, but I'd do it, and you should have your own

back."
"I'd give you a dollar every trip if
I thought you could, and not take it
back. T'would be worth it to find
out how you did it in your tight cor-

ner."
"Try me," coloring under his teas-

ing gaze.

He tossed it up again, and it came down in her lap.

"One would think you never owned a dollar before," said her father smiling, as she immediately began planning to invest it. ning to invest it. "Well. Frank thinks me a worth-

less, schemeless, puny creature.

one was quite a challenge.
"Not quite so bad as that," but the
old man was well pleased with her
sudden interest at anything near at
hand. "Twould be a pity if his one
daughter should seek her fortune

Callers were electrified by her ques tioning for weeks thereafter. She wanted their ideas, as well as those of her own household. The best wanted their ideas, as well as those of her own household. The best crops, and the best methods of obtaining those crops were discussed, and Frank as faithfully dropped a dollar into her lap every trip to market. One moring she went out to the wagon after he had mounted his load. She passed him up a nickle. "I want a paper of cucumber seeds," she said, "and, Frank, you must do my peddling."

"I want a paper of cucumoer secus, she said, "and, Frank, you must do my pedding."
"I'll peddie every cucumber." He laughed loud and long. "But what are you getting them on hand so early for?" The snow still lay on the ground in patches.

venturing to disturb them. Plenty of land stretched away to the right, and the left of her father's barn, more and the left of her father's barn, more girl need not hire soil. She begged a patch that had been plowed and planted the year previous, that she need not spend money turning up the sod. She then engeged the services of a twelve year old boy for a few days. No horse work was done on the cucumber or squash beds. It was not Georgie's plan to grant of the soil of t "Baked beans, too; you must raise all kinds."

A strawberry bed was her next thought, and Dick was again called into requisition.

"I shall not want you again till threshing time; they'll have to be hand-threshed, and they'll sell better if they are hand—what do you call it, Frank?—winnowed? I'll try to do all

Frank—minowear 111 try to on all the rest. Trank's direction she did try, but the plot of land she had selected to the plot of land she had selected to the plot of land she had selected to the vatered or the plot of land she watered or the plot of the vatered of of t

them."
With this end in view she did not try to keep them free from weeds. "You should have picked off the blossoms," said Dick; "Mr. Hodge said when I got them that he was said when I got them that he was in the many the said when I asked him to give them to make the said when the said when the said when the said when the said was not said sai then bear better next year.

"I'm working for this year," was her answer. "That's the second false move that I have made. Next year we will profit by he failures of this."

this."

She planted her beans too early, and cultivated them when the ground was wet, and Frank told her plainly that she would not harvest a peck. It was now nearing the end of June. Her cabbages were all drying in the sun; the squashes all "run to vines" in her father's vernacular; and the cucumbers looked anything but promising. Her courage was dauntless. Frank was making two trins a week. ising. Her courage was dauntless. Frank was making two trips a week now, and her dollar was sure. She confided in Dick, and they replanted that half-acre of beans. The family ate her cucumbers, onions, cabbages and strawberries, and wished there were more, "if she hadn't charged so high for them."

the ground in patches.

"To have them," was the laconic answer, and she fied indoors. Another morning and the family was surprised to find three oblong boxes had taken possession of the boxes had taken possession of the empty spaces in one of the bay windows in the dining room. These were filled with paper cups, filled with earth. "That's what you had all the earth drying in the oven for," l'aughed Frank. "When I made the fire long the first was the first learned with the first But her second bean crop

As a result, a rude hot-house was erected. "A celery bed!" Frank ex-claimed; "you are long-headed, Sis! Ambitious, too. Who would have Ambitious, too. Who would have thought that that building was in your near future, when you sent for that five cent paper of cucumber

Georgie builds air castles as she keeps her green shoots warm through the winter, and her father says, glancing at her contented brown face, "It is better to keep the girls on the farm."

Summer Series of Women's Institute Meetings.

(G. A. Putnam, Toronto)

Arrangements are being made for the regular summer series of Women's Institute meetings which will be held from about May 24th to the 10th or 15th July. It is the intention to send two delegates to each meeting arrangtwo delegates to each meeting arranged for, except those in the far Northern sections of Ontario, where a gentleman and lady delegate will be in attendance. In older Ontario, one of the delegates will be prepared to or the delegates will be prepared to give demonstrations in one or more of the following: cooking, millinery, dressmaking, bandaging, changing of bed clothes with patient in bed, etc. This delegate will also be prepared to give addresses upon different lines of domestic science.

give addresses upon different lines of domestic science.

The list of topics given herewith will indicate the nature of addresses to be given by the other member of the delegation. A list of three or four subjects will be automitted to each interest of the second of t ence of woman; butter making on the farm; kitchens, past and present; hints on selection and care of meat; everyday helps for the housewife; the expenses of the household; the plan-ning of a farm house; bacteria—their ning of a farm house; bacteria—their relation to health and disease; sun-

remains a samin disease; surprising pure leaf in and disease; surprising pure leaf in and disease; surprising pure leaf in a leaf in the surprising conditions: That the district organization advertise the meetings to be held within the riding, that they also arrange for the transportation of the delegates. The organization concerned will be required to entertain the delegates while at the place of meeting and shall also furnish a suitable place in which to hold the meeting, free of cost to the department. At those points where organization has not been effected, and the women of not been effected, and the women of the locality have expressed a desire to

not been effected, and the women of the locality have expressed a desire to have a meeting, arrangements will be made by the Department to the additional to the second of the Department of the second of the secon work will write direct to the Super-intendent asking for literature upon the work of the Institute and if thought desirable, make application for a summer meeting. In those coun-ties where no organization has yet been effected, the Department will be

prepared to deal liberally in making ovision for an organization meetin or meetings, even to the extent of co-operating in advertising.

co-operating in advertising. The membership of the Institutes now exceeds 11,000, and during the winter series of Farmers' Institute meetings, organization has already been effected at 23 placet and the likelihood is that a number of other points will have organizations before points will have organizations before the present series of meetings havy been completed. The Department is ready to extend the Institutes as the people call for them, believing that the expenditure of funds in this work can always be justified and will be returned to the people of the Province many-fold in the betterment of con-ditions surrounding farm life.

The Busy Housewife

Your bar soap will last twice as long, if it is aired and sunned a week or two before using it. Try this the next time you put in a sup-

When mixing a mustard poultice, try using a white of egg, instead of the usual water. You will always follow the former plan afterwards.

follow the former plan afterwards. Why not have a linen chest or closet fixed up in a convenient place during the winter, when the "handy man" has a few spare moments? You will wonder how you ever got along without it, when completed. If fixing up a chest, have a half tray under which you can reach without removing the state of the state of

the under part.

If you are ever troubled with the tiny book mites that sometimes attack books, pictures, and even furniture, wash the shelves, book bindings and picture frames with a cloth rung out of water to which a spoonful of the oil of cedar has been added.

Baste strips of calico on the ends of the oil of cedar has been added.

Baste strips of calico on the ends of the oil of cedar has been added.

Baste strips of calico on the ends of the oil of cedar has been added.

Baste strips of calico on the ends oiled control of the oil of cedar has been added.

Baste strips of calico on the ends oiled control of the oil of the oil of the oil oiled oiled

···· HOME-MADE MEDICINE

Said to Relieve Kidney Trouble and Rheumatism

One ounce Fluid Extract Dande

ion; One ounce Fund Extract Dange-lion; One ounce Compound Salatone; Four ounces Compound Syrup Sarsaparilla; Mixed and taken in teaspoonful doses after meals and at bedtime, is doses after meals and at bedtime, is stated by a prominent physician to give most excellent results in kiney or urinary afflictions, and also in rheumasism and sciatios. The mixture opens the clogged porce of the kidneys, thus assisting them in their work of filtering all waste and poisonous matter from the blood, and expels these in the urine. To allow this these in the urine. To allow this tissue or joints, and cause the untold misery known as rheumatism. The mixture is composed of harm-

misery known as rheumatism.

The mixture is composed of harm-less vegetable ingredients which can be purchased at any good drug store, and mixed at home.

A nyone suffering from any of these afflictions will no doubt be pleased to learn of so simple and highly recom-mended reraedy.

Pattern Department



GIRL'S JUMPER DRESS WITH GUIMPE, 5661.

TO BE MADE WITH THREE-QUARTER OR OR LONG SLEEVES.

The jumper idea has taken a firm hold upon children's fashions. Here is one that is worn over a separate guimpe and that is worn over a separate guimpe and that materials. It can be made simple or dressy as one fabric or another is chosen and as the guimpe is of plain or fancy material, and it consequently means a drawn of the second of



6 mos., 1 and 2 years

INFANT'S SACQUE 5712

INPANT'S SACQUE 5712
TO BE MADE WITH OR WITHOUT COLLAR
AND BRYERS, WITH SLEEVES TOKED AT
THE WHIST'S OR CATREEDED INTO BANDS.
Such a little sacque as this one belongs
in every infrair's outfit. It can be slipped
on at a moment's notice and often means
just the additional warmth that is needed
and charming in the extreme. Every
bady needs a goodly stock of such little
garments and one in each style would not
be too many for any perfect layette. Pluge
light flannel, cushners, hearrierts and mathere are also some very charming little
saques made of India silk lined with abatrons.

tross.

The quantity of material required for the medium size (1 year) is 12 yds. 27, 14 yds. 32, or 24, 44 inches wide.

The pattern 5712 is cut in sizes for children of 8 months, 1 and 2 years and will be mailed to any address by the Fashion Department of this paper, on receipt of

5731 Tucked Blouse 32 to 42 bust,

5731 Tucked Blouse, 32 to 42 bust. TUCKED BLOUSE 5731.

TUCKED BLOUSE 5781.

The chemisette effect is always a preity atmee the control of the control o

walst, so providing change without diffi-culty.

The quantity of material required for the medium size is 38 yds 27 or 32 or 32 yds 44 inches wide with 7 yd. 15 inches wide for the pattern 5731 is cut in sizes for a 32 3, 36, 36, 40 and 42 inch bust measure and will be malied to any address by the Fashion Department of this paper on re-ceipt often cents.



5730 B alking Skirt, 22 to 30 walst

5730 Seven Gored Walking Skirt. 22 to 30 walst.

SEVEN GORED WALKING SKIRT 5780 TO BE MADE WITH OR WITHOUT APPLIED FOLDS.

The plaited walking skirt continues to be the favorite one. Here is one of the latest that is exceedingly graceful and attractive in addition to being novel, while with all its other advantages it is simple. It can be used both for a suit and the separate skirt and allows of trimming of



HRISTMAS is not a real Christmas unless there are children. No Christmas present is so good as one the whole family can enjoy. No single thing furnishes so much entertainment to a family, especially where there are children and young folks, as an Edison Phonograph. It supplies all kinds of amusement at little expense; it gives you a means of entertaining your friends.

We Desire Good, Live Desiers to sell Edison Phonographs in every town where we are not now well represented. Dealers should write at once to National Phonograph Company, Dealers should write at once to /

various sorts. The folds are among the best liked just now and these can be o the same or contrasting material as liked or bandings can be substituted, the plain hear alone is always correct, and, if some-executed in soutache would be handsome as well as in style.

The quantity of material required for the medium site is § yiel 37 or 32 or 15 yields material 37, 14 yields 20 or 12, 44 inches wide for the fords.

The pattern 5739 is cut in sizes for a 22, 25, 25, 28, and 30 inch waist and will be partment of this paper on receipt of ten cents.

Care of Shoes

Boot and shoe trees are all very well if they can be afforded, but a set of them to accommodate the foot-gear of the average well-dressed wo-

Cure for Chilblains Tell "Constant Reader" that if his

Let them soak in this for at least 12 hours. Then turn soles upwards, and leave for a couple of days before wearing.

Tell "Constant Reader" that if his chilblains are not of the itchy variety, and his foot not broken, that he can get blessed relief by placing the foot coals in the grate. He must hold his foot at such an angle that the heat will strike the affected part more than any other. Keep it as closs to the heat as it is possible to endure, and, say, for 30 to 60 seconds. If the first operation does not remove the inflammation, repeat several times, or until the itching ceases. It is rather hard work, but if properly persisted in, will stop the itching every time. Bruce Co., Ont. J. H. W.



Beware of imitations and substitute, ccept none but the genuine "Baby"







This new Winger Attachment is "bead and shoulders" above any other.
The entire stand is aisoultely rigid—always in position—never in the way—and the water drains right into the tub.
"New Century" Washing Machine—complete and delivered at any railway station in Ontario or Quebec—only \$9,00. Write for free booklet.

DOWSWELL MANUFACTURING CO. LIMITED HAMILTON, ONT

You cannot possibly have a better Cocoa than

A delicious drink and a sustaining

Fragrant, nutritious and economical. This excellent Cocoa maintains the system in robust health, and enables it to resist winter's extreme cold.

Sold by Grocers and Storekeepers in 1-lb. and 1-lb Tins.



PIANOS

ORGANS

CANADA'S BEST MAKE

The home is not complete without a

Illustrated Catalogue No. 41 sent free,

THE BELL PIANO AND ORGAN CO., UMITED ONTARIO

Have a Leap Year Party

As leap year comes but once in four years, and the girls have to sit by, and let their big brothers take the initiative on every occasion, for the intervening three years, it is near-ly time that the girls exercised their iy dime that the gris exercised their privileges this year, and made it in-teresting for their masculine friends. Why not have a Leap Year party, having it on the extra day in the month, or on February 29? The invitations could be sent out

The invitations could be sent out by several girls in a neighborhood, who can club together for the occa-sion, into a sort of club. If all the plans for the party are carried out by the girls themselves, it will add much jest and merriment to the af-fair. At a party given several years ago, which was attended by the writer ago, which was attended by the writer the invitations were issued by the girls, they called for their partners, with sleighs, and took them to the house of the party on the eventful evening, and took them home. Needless to say, that in nearly every case they were again taken home them they were again taken home then-selves by the boys, when the fun was

Every girl can originate plans for Every girl can originate plans for the immediate details of such an en-tertainment, that will best suit her-self and her friends. Games of all serflament, use an early and self and her friends. Games of all such as a self and her friends. Games of all music, help to make up a memorable evening. Suggestions for entertainments will be found in abundance if a number of jolly girls get together with the genuine Leap Year spirit among them. The following have been suggested, and may easily be certified out. The control of t

can be made of the names of the things represented. Distribute these lists with pencils, among the guests, and have them number the lists to correspond with the articles on the table. If only a short time, say five or eight minutes, is allowed, for this guessing contest, the interest is much keener than if a longer time is al-

Departed Days, Last Year's Calen-Departed Days, Last Year's Calendar; Scene in Bermuda, Onions; We Part to Meet Again, Scissors; The Reigning Favorite, Umbrella; The Greatest Bet ever Made, Alphabet; The Little Peacemaker, Scissors; Spring Offening Gless of Webris. Greatest Bet ever Made, Alphabet;
The Little Peacemaker, Scissors;
Spring Offering, Glass of Water;
Spring Offering, Glass of Water;
Bound to Rise, Yeast Cake; Things
that End in Smoke, Two Cigars; A
Place for Reflection, Hand Mirror;
Deer in Winter, Eggs; Seene in a
Baseball Geme, Pitcher; A Driven
Through the Wood, Naid Driven
Through the Wood, Naid Driven
Through the Wood, Naid Common Sene Common Sene Sene Pennies;
Cur Colored Waiter, Black Tray;
Sweet Sixteen, Sixteen Lumps of
Sugar; Common Sense, Some Pennies;
The Black Friar, Black Frying Pan; Sugar; Common Sense, Some Pennies; The Black Friar, Black Frying Pan; Cole's Memorial of the Grate, Cin-ders; The Four Seasons, Salt, Pep-per, Vlinegar, Mustard; A Morning Caller, A Bell; Assorted Liquors, Whip, Switch, Slipper; The Skip-per'a Home, Cheese; An Absorbing Subject, Blotting Pad; Bound to Shine, Shee Polish.

Whip, Switch, Slipper; The Skipper's Home, Cheese: An Absorbing Subject, Blotting Pad; Bound to Shine, Shee Pollah.

ALL ABOUT ANTS.

Distribute lists with the following cuestions written on same, keeping the answers to the questions. telling them that every word in the answers to the questions, telling them that every word in the answers to the questions, telling them that every word in the answers to the questions, telling them that every word in the answers to the questions, telling them that every word in the answers to the questions, telling them that every word in the answers to allow the company to figure out these answers. Do not give any hints as to the answers, but let each one guess for themselves. Small prizes may be given to the one having the most correct lists in each considerable that the prizes may be given to the one having the most correct lists in each can be considered to the contest of the contest of

ant sees things? Observant; What ant is angry? indignant; What ant tells things? Informant; What ant is successful? Triumphant; What ant is an cessful? Triumphant; What ant is an officer? Commandant; What ant is a beggar? Mendicant; What ant is a beggar? Mendicant; What at is obstinate? Infant; What is the vaning ant? Dominant; What is the wandering ant? Errant; What ant lives in a house? Occupant; What ant points out things? Significant? What ant is prayerful? Supplicant; What is the oldest ant? Adamant.

Father and Son on the Farm

Why is it that so many of our farm ads conceive a dislike for the farm, lads conceive a dislike for the farm, and seek a precarious livelihood as clerks, or in the overcrowded professions? The answer is not lat to seek. Overwork, and the evils resulting from it; lack of leisure for healthful and congenial recreation; the relaxed muscles and strained discondered discondered discondered discondered discondered discondered discondered the relaxed muscles and strained of ordered nervous system, refusing the disouraging as well, to a boy. ordered nervous system, refusing the disouraging as well, to a boy. If a boy prefers, give him a reasonbain necessary to mental, moral and able amount of work, with the under-

comes? Of course, there are certain comes? Of course, there are certain seasons when early rising is a neces-sity, such as planting, harvesting and husking time. Two months, or, at prost, three months out of the year, will cover the period when man, wo-man or child, and beast, can do as much between sun-up and sun-down as is good for their physical well-

as is good for their physical wellbeing.
Pocket money is another problem which our country lad, God bless him, is almost certain to stumble against sooner or later. The method that prevails to a great extent, of allowing a boy to cultivate a certain amount of land for his own benefit, or of giving him a colt or a call to have for his work and the same, the collection of as well as another plan. In the first place the cultivation of almost any crop to profit, is uncertain, and dis-alpointment is not only bitter, but disouraging as well, to a boy.



WINTER FUN

Who is having the most fun, the boy, the dog, or the snow man?

We desire to start a column strictly for our boy and girl renders, Will you then, children, write the editor a little letter, not over 75 words long, telling us what outdoor games and sports you most enjoy in the winter time? If you can get some of your older brothers and sisters to take snap shot photographs of you and your friends out of doors, send them also. A suitable prize will be given to the boy or girl sending us the best letter, which will be published in our paper. Send your letters in a once. Address Household Editor, Canadian Dairyman and Farming at once. Address House World, Peterboro, Ont.

physical development.

physical development. It is not uncommon to hear a par-ent remark: "Yes, Johnnie is grow-ing up. He can do a man's work al-most anywhere you put him." But poor twelve year old Johnnie's stoop-ing shoulders, lustreless eyes, and dragging feet, tell a different story.

standing that he is working for all, and that all are working for him, without any cash basis, placing the whole case on the basis of mutual whole case on the basis of mutual helpfulness and affection. Then, on days when he really wants money, First of July, county fair days, and circus days, allow him a generous outday. What if he does spend it on things that seem foolish to us, they are not foolish to him. Let him spend

'let the parent consider his whole duty towards his son, and we believe farm life will assume an entirely different aspect to the average boy. To feed and clothe the creature, for whose existence we are responsible, is not enough. We should study with him, play with him, work with him, laugh with him and grieve with him.

him. Blessed is the boy whose father re-tains enough of his youth to enter un-derstandingly into the drawing man-hood of his aon; who will share with him all the simple sports dear to boy-ish hearts, and who has no secrets, business or otherwise, which his son business or c

de

Just Among Ourselves

Just Among Ourselves
Try painting the lower step of the cellar floor white. It is then easily seen when one has renched the bottom of the stairs, and saves that uncomfortable feeling of uncertainty one has about reaching the bottom. Save your waste tea leaves to sprinkle over the carpet before sweeping. To prevent them staining the earpet, however, wash them in the colander, thoroughly, before using. Squeeze dry with the hands, and they will be ready for use.

dry with the hands, and they will be ready for use.

Rub laundry soap up and down each side of the window sash, where it sticks. Generally you will then have little further trouble, in either raising or lowering the sash, in all kinds of weather. Bureau drawers that stick may be treated in the same way. A wax candle can be used instead of soap.

Rub a very little korosone over

stead of soap.

Rub a very little kerosene over boots and shoes that have been hardboots and stoes that have been hardboots and getting wet. It will make them soft and pliable as new.

Try a tablespoonful of turpentine boiled with your white clothes. It is harmless, and will whiten them

Boiled starch is much improved by the addition of a little salt. It as-sists in keeping the irons from sticking. Try it the next time you

make starch.

Cold rain water and soap will go erally remove machine grease from washable fabrics.

As salt curdles new milk, hence in

preparing perridges, gravies, sauces, etc., salt should not be added until the dish is prepared.

THE GOOD COOK

in an early issue, we desire to run some cetal receipes on bread and bread snik-y particular receipes they may have on ead making, either wheat, brown, pro-ceipes will be accepted. If you have a ead mixing machine, kindly tell us either with the control of the con-trol of the con-trol of the con-trol of the control of the con-trol of the

New Potatoe Fritters.

Bake as many medium-sized pota-toes as will be required until tender. scoop out inside and mash free from lumps. To 10 potatoes allow 1 cup of lumps. To 10 potatoes allow 1 cup of milk with 1 egg beaten in it, a table-spoonful of grated cheese, one of melt-ed butter, little salt and pepper to season nicely, and if liked, a grating of nutmog. If too stiff add more milk. of nutneg. If too stiff add more milk. It is impossible to give exact amount owing to varying size of potatoes. Mix to a perfectly smooth batter, and fry in deep fat, just as other fritters. Drain on blotting or unglazed paper for a minute, and serve at once. These make a delicious hot tea dish.—Miss Mayne, New Brunswick.

Delicious Corn Bread.

To 1 pt. sifted white corn meal, add To 1 pt. sifted white corn meal, add half teaspoon softa, I teaspoon subtact and, if fiked, I or 2 tablespoons sugar), I tablespoon lard. 25 beaten eggs agn, I tablespoon lard. 25 beaten eggs the subsequence of the subsequ

Meat Omelet.

Meat Ornelet.

Beat 2 eggs with 3 tablespoons of creum, salt and pepper to taste, add 1 cup cold minced meat, mix well, and drop by spoonfuls on a hot buttered spider, and fry light brown on both sides. This is a nice way to use up odd bits of meat.—H. H., M. Welland Co., Ont.

inutes .- Mrs. Jeanet, Hastings Co., Ont

Steam pumpkin Mis.
Steam pumpkin until soft; dry off in the oven and rub through a sieve. To one and a half cupfuls of strained pumpkin add two thirds of a cupful of brown sugar, 2 eggs slightly beaten, 1 teaspoon of cinnamen, half-teaspoon. each of salt and ginger, one and half cupfuls of milk and half cupful of cream.—Bessie B., York Co., Ont.

Cheese Tomato Tarts.

Cheese Tomato Tarts.

Roll out about 1 lb. of flaky pastry to the thickness of half an inch, and line some buttered patty pans with it. Mix 3 tablespoons of grated cheese with the same quantity of stewed 7° canned tomatoes, 2 well-beaten eggs, and salt and pepper to taste. Half fill the patty pans with this mixture and bake in a quick oven for 15 minutes.—Clara Baxter, Winnipeg, Man.

Potatoe and Onion Pie.

Potates and Onion Pie.
Parboil I q.t. of potatese and 1 pt. of onions. Peel and cut in thin slices. Place in alternate layers in a buttered baking dish, sprinkling each layer with salt, pepper, and little bits of butter. Have the last layer of potatees and cover with a small cupful of well-buttered crumbs. Cover the dish and bake in a good oven for 20 minutes, then remove the cover and let brown nicely. Serve at once. Left overs may also be nicely served in this way.—Mrs. Jack Brown, Brant Co., Ont.

Are We Too Serious?

Taking life too seriously is said to be an especially American failing. This may be true: but judging from appearances, it would seem to be world-wide, for, go where you may, you will find the proportion of serious, not to say anxious, faces, ten to one, as compared with the merry to one, as compared with the merry or happy ones. If the "outer is al-ways the form and shadow of the in-ner." and if "the present is the full-ness of the past and the herald of the future" (and how can we doubt it?) how many sad histories can be read in the faces of those we meet every day. Ruskin says; "Girls should be land Co., Ont.

Ham or Meat Rolls.

Make a rich pie crust, roll thin, cut in strips 3 inches wich eand 4 inches long; spread with finely minced boiled hem or meat, moisten with egg and milk, season to taste, and roll up like a jelly roll, pinching the edges were as together. Bake in hot oven 20 to 30 over?

In the Sewing Room

When lace curtains begin to give way, baste a large piece of thin white cleth over weak parts before washing.

cicth over weak parts before washing. Boil in a pillow slip or thin sack. When ready to sew on a row of hooks and eyes place the two edges of lining of which they are to be sewed evenly together one on top of the other, then take the tracing wheel, and mark places on both edges

at once.

In ripping long seams of machine stitching the work can be done quickly and easily if you will simply put the garment under the pressure foot and lower the needle to hold it firmly, then hold it in the left hand a short distance and with a sharp knife inserted in the seam rip it.

If last year's white linen skirt is frayed at the bottom, cut off and sew on a bias fold with the seam on the outside. Turn over and stitch down on the outside of the skirt. This will give the effect of a new footfold. If preferred, add one or two more folds above this.

What the Old Cow Said

The old cow walked by the dairy shed And she said in her ruminant way:
"I'm feeling about as fine as silk,
But I'd like a drink of my own
good milk."
And looking around she presently saw
A pail that was standing beside the

It was buttermilk, about two days

But the aged bovine hadn't been

So she only remarked, "It's mean to bilk An industrious cow of her own good milk."



And she took a drink and she looked

And she walked away, and that cow surmised—

secow surmised—
She surmised about half way down
the lane—
And she said with astonishment,
mixed with pain:
"To judge by the flavor of that there
milk,
I can't be feeling as fine as silk;
I must be bilious, I'll bet a has,
When I get to giving down milk like
that.—Daketa Farmer.

-Dakota Farmer.

Trials of a Traveller

Iriais of a Iraveller
The express was tearing away at
the wild and awe-inspiring rate of six
miles an hour, when all of a sudden
is stopped altogether.
Most of the passengers did not notice the difference; but one of them
happened to be somewhat anxious
to reach his destination before old
age claimed him for its own. He put
that the cause of the stop was a cow
on the line.

on the line.

After a while they continued the journey for half an hour or so, and then—another stop.

"What's wrong now?" queried the

"What's wrong now?" queried the impatient passenger of the brakeman. "A cow on the line, sir." "But I thought you drove it off?" "So we did," said the brakeman, "but we've caught up to it again."

it is desirable to mention the name of this publication when writing to advertisers

Windsor Salt -the one thing needed -to give just the right savour.

COWAN'S MILK CHOCOLATE

Is guaranteed pure and made with t Canadian Milk and all the Cream in it

\$15 Women's Suits \$6.50 Tailored to order. Suits to \$18. Send for free cloth samples and fall style book. — SOUTHCOTT SUIT CO., London, Ont.



firearms cost less than most guns, but they acknowledge no supprice. You can trust the shotguns in the field or the hunt, or the range or small game shooting, for sure, hard, straight hit *\sqrt{\text{\$\mu}}\sqrt{\text{\$\mu}}\text{The records to their credit than all other makes combined.

HERE ARE OUR LEADERS: The superior qualities of tur f

J. STEVENS ARMS AND TOOL CO., 100 Front Street, Chicopee Falls, Mass., U. S. A.

The Canadian Dairyman and Farming World PREMIUM



NEW COMMERCIAL CALCULATOR AND SHORT CUT ARITHMETIC

A complete system of labor-saving tables. Shows at a glance the correct answer to millions of practical calculations.

THE GRAIN TABLES show the cost-also the number of bushels in wagon or car-loads of wheat, corn, rye, oats, barley, seeds, potatoes, etc., at all market prices without making a single

THE STOCK TABLES show the cost of cattle, hogs, sheep, flour, feed, iron, or anything sold by the cwt., from 21/2 cts. to \$10.00 per cwt, for any quantity up to 40,000 pounds.

THE INTEREST TABLES show the exact interest on any sum at all practical rates and for any given number of days, months and years; also the compound interest, present worth,

THE WAGES TABLES show the amount of wages due for any given time, at all rates from \$5.00 to \$150.00 per month : from \$2.00 to \$25.00 per week; from \$1.00 to \$5.00 per day, and from 10c. to \$1.00 per hour.



Wide Awake Farmer Saves \$10. Stock Buyer-I'll lose money on the Hogs at \$4.52 % unless the market improves by tomorrow. The weight is 3895 lbs. Here is your check for \$166.25. Farmer—There surely is a mistake somewhere. Ropp's New Calculator makes it \$176.25. (page 58). S. B. - After figuring it over carefully-Correct, here is a \$10 bill with your check. Pardon my mistake.

Car-load of Steers, Hogs or Sheep, weighing 28740 lbs, at \$6.85 per Cwt., amount to \$1026.19. (p. 69). At \$17.50 per 1000 feet (\$1.75 per 100), 9256 feet of Lumber amount to \$161.98. (page 49) At a 3.50 per cent test, the amount of Butter-lat in 2640 lbs. of milk is 92.4 lbs. (page 55). Freight on 7680 lbs., at 421/e per Cwt. is \$32.64. Wages for picking 840 lbs. Cotton, at 65¢, is \$5.46.

THE CAPACITY TABLES show the contents of grainaries, corn cribs, wagonbeds, bins, boxes, etc., in bushels; of cisterns, vats, boilers, stand-pipes, railroad and irrigating tanks, in gallons, up to

> The above are only a few of the interesting and helpful things which this book contains.

> There are 160 pages in all; well bound; measures 61/2 inches long and 33/4 inches wide; will fit the pocket. Regular price \$1.00.

You may have this book for \$1.00 in cash or FREE in return for one NEW subscription at \$1.00 per year.

- ADDRESS

The

Canadian Dairyman and Farming World PETERBOROUGH, ONT.

said quotations there are case lots. Some America have been sold there did not be set as the case lots. Some America have been sold there are

MARKET REVIEW AND FORECAST

Peterboro, Feb. 26th, 1502.

Whill there is a hopeful feeling in not yet recovered rom sall signs of depression. Easy wholesals allow. That there are fewer complaints from rural sections would indicate that the section would indicate that the recovered rom sall signs of depression. Easy wholesals allow. That there are fewer complaints from rural sections would indicate that the recovered rom sall signs of the r

4070 00

GENERAL MARKETS

TORONTO FARMERS' MARKET. St. Lawrence Market. Toronto, Feb. 23, 198.—On account of the cold weather prevailing lately, the receipts of all lines of ter were noticeably scarce and prices were rather high, particularly for butter. Trade was good and the attendance was large. The following prices rucher the property of the state of the second prices were the property of the second prices and the state of the second prices are the second prices and the second prices are the second price

his following prices ruled:

Prices.

Prices.

Prices.

Prices.

Potatoes.—8.10 a bag. old from 35 to
8 a dox, and storage at 53c.

But a dox, and storage at 53c.

10 to 35c a lb.

Poultry—Dressed chickens, 56 a lb.; live,
6c; dressed forl, 15c; irve, 15c; fresh turn
turn 15c dox 15c are, 15c; fresh turn
turn 15c dox 15c are, 15c; fresh turn
turn 15c dox 15c are, 15c; storage,

4 to 15c, ducks (fresh) 14 to 15c;

4 to 15c, ducks (fresh) 17c; storage,

78, Is to a proper than 180; storage, 120; ducks (fresh) 170; storage, to 15c, to 15c, tay and straw—About 30 loads of hay d three of straw were offered. Hay ought from \$19 to \$21 a ton and straw ought from \$19 to \$21.

TORONTO FARM PRODUCE.

TORONTO FARM PRODUCE.

Toronto, Peb. 24.—Oreamery butter is still onto, Peb. 24.—Oreamery butter is still onto, Peb. 25.—Oreamery butter is still onto the past two cv. three weeks been for the past two vecks. New list degree proventing. Peb. 25. The past two vecks. New list degree proved and there is hardly enough to supply the demand. The demand for poulpy the demand. The supply of select (etcrage) demand of the provent control of

TORONTO SEED PRICES.

TORONTO SEED PRICES.

Toronto, Feb. 24.—The nausually stormy weather and the consequent effect on the radiroads, as well as the country roads, has easied a shortening of the receipts errichese, considerable seed that is now in transit will come in this week. There is a feeling of uncertainty in the future of the continued of th

THE HOG MARKETS.

THE HOM MARKETS.

Toronto, Peb. 21, 1960.—The English market is badily broken up by large deliveries
of Danoish and American hogs and as
this affects the Canadian market, the Win.
quote any prices for this week.

Hos Supply in this district is less
than haff any the Canadian transport of the Canadian

PETERBORO HOG PRICES.

PETERBORO HOG PRICES.

Peterboro, Monday, Feb. 3d—The weak
condition of the English hog market due
to the large import of Danish bacon has
caused prices to go down in sympathy.

more hogs have been received on the local market during the past week. The
(ico. Matthews Company quote the same
prices an last week, namin) \$5.10 a cut.

""" however, rooppeds point to lower prihowever, rooppeds point to lower pri-

Geo. Matthews Company quote the same prices an last week, namely \$5.0 a out. The prices, however, the proposed point to lower prices, however, the proposed point to lower prices, however, the proposed point to lower prices, however, and the prices and the prices and the prices are proposed to the prices and the prices are proposed to the prices and the prices are proposed to the prices and the prices are prices. The prices are prices. The prices are prices. The prices are prices. The prices are prices. The prices are prices. The prices are pric

EXPORT BUTTER ANY CHEESE TRADE.

Montreal. Monday, "beb 24—There was decidedly more doing nat week in the exdecidedly more doing in the week in the exMontreal via the Atlantic seaports were pretty heavy for the time of year. The real most aggregate fully 25,000 boxes for the season of the season was done of the winter season. Holders have been much encouraged by the business done much encouraged by the business done much encouraged by the business done of the season sea EXPORT BUTTER AND CHEESE TRADE.

good advice for holder of seed to lessen their stocks and for the growers of seed the seed to lessen their stocks and for the growers of seed the seed to be a s

The Union Stock Yards Co.

HORSE EXCHANGE

Keele St., Toronto Junction

Auction Sales of Horses, Carriages and Harness every Monday and Wednesday. Private Sales every day



Come and see this new Horse Exchange, it will interest you, also the Quarter Showing and

THE Directors of the above Company have not spared anything in the building of this new Horse Exchange. The stables which are built of cement and brick, will stall between 200 and 300 head of horses, and are considered by judges who have seen them, to be the most sanitary they have yet seen. We have sold on an average of 100 horses per week since the opening of this great Horse Market, and now that the success of the Horse business is assured, we are in a position to handle

Breeders' Stock Sales

of all kinds, Cattle, Sheep and Hogs. Breeders will find that advertising from a central place like Toronto will be advantageaus in many ways, as this is unquestionably the most complete market of its kind in America for both buyer and seller. We have our own Railway Chutes, which are the finest, and can load any number of cars at once on both G. T. R. and C. P. R. No charge for loading or unloading stock of any kind.

Correspondence Solicited as to Terms, etc.

HERBERT SMITH, Manager (Late Grand's Repository)

THE J. A. MCLEAN PRODUCE CO. LIMITED

Exporters and Wholesale Dealers

Butter, Eggs and Cheese 74-76 FRONT STREET EAST, TOPONTO. . . CANADA.

Inquiries and Answers

Growing Roots

Growing Roots

Which kind of root is mad profitable for feeding duty of the control of the contr

downs, on:

Mangles are more preferable for
dairy cattle than either of the feeds
named. Turnips are good, but have
a tendency to taint the milk, hence it
is dangerous to use them. For hogs
these kinds of roots have about equal
value. Sugar beets contain slightly value. Sugar beets contain singuity more dry matter than mangles or thr-nips, also a slightly higher percentage of carbohydrates. Where mangles are being produced for dairy cattle, however, it is hardly advisable to grow turnips or sugar beets when only a few hogs are being fed.

a few hogs are being fed.

Mangles are fed to cows at the rate
of 25 to 40 pounds a day. Taking
the outside figure—40 pounds—25 cows
would require 1,000 pounds a day.
Twenty pounds a day for hogs is a
large amount, but taking this estimate it would require 20 pounds,
therefore for the shock each day,
and if fed 200 days—4,000 bushels
would be required. would be required.

would be required.

An average crop of roots, rows being sown about 28 or 32 inches apart, and the plants thinned out to 10 to 12 inches apart in the rows, would produce approximately 20 tons of roots to the acre. To make allowance, therefore, for the seasons, three or four acres of roots would provide ample the produce approximately ap

If it is desired to get a good crop of roots, and, at the same time cultivate the land, so as to kill weeds, and prepare it for future crops, it is essential to sow in drills. By sowing broadcast cultivation cannot be ing broadcast cultivation cannot be followed; a smaller crop is assured, the roots themselves are small, and it requires more labor to handle them.

Rows can be planted at any width allow for cultivation. If it is Rows can be planted at any width to allow for cultivation. If it is intended to cultivate with a horse hee, 18 to 24 inches apart is wide enough. If it is desired to use a spring tooth cultivator with team, which would facilitate considerable work, we would advise sowing from 25 to 36 inches apart.

The more cultivation that is given crop, the greater will be the production. Cultivation should be followed with a view to eradicate be followed with a view to eradicate the weeds, as well as increasing crop production. It should be the aim to cultivate after every rain, in order to break the crust, create a mulch, and thus conserve the soil moisture. production.

Mangles, if they are to be stored for any length of time, will not stand a very hard frost. A hard frost affects them, causing them to rot in a very short time. Turnips, on the other hand, will stand considerable frost without injury. Questions About Alfalfa

What kind of grain is best to seed down with alfalfa clover? What time of the year is best to seed down? How does it do on sandy land?—G. W. B., Ont. the Western States, where al-In the Western States, where al-falfa has been grown for many years, the practice generally adopted is to seed without a nurse crop. Some seed without a nurse crop. Some growers in Ontario have had good success by seeding with barley, or some spring grain. Others report good results with short straw and peas, though as be this we are not prepared for co. BURSE. Cros. Latt. plan. Wheth

to recommend the latter plan. Whether a nurse crop is used or not, it will be a safe plan to inoculate the alfalfa seed before sowing with the bacteria suitable for its growth. These can be had by applying to the Bacteriological Laboratory, Ontario Agricultural College, Guelph, and will be sent with full instructions as to

sent with time instructions as to the continuous authorities on alfalfa do not seem to be convinced as to which is better, fall or a spring seeding. Growers in the United States seem to favor fall sowing, especially when no nurse crop is grown, as it gives the plant a better chance. In Canada it will, perhaps, be better to practice spring seeding. Other things considered, that is proper cultivation, etc., atlafas will do well on sandy land, atlafas will do well on sandy land, and the continuous contin

Umbilical Hernia.

I have a colt eight months old that has a small rupture about the size of a butternut just at the end of the sheath. This has been much larger but was kept bandaged. The bandage has now been taken off. What should I do with it?—D.T., Simcoe Co., Ont.

As the truss or bandage has suc-As the truss or bandage has suc-ceeded in reducing the size, I advise its continuance. When a truss will ef-fect a cure it is much the better treatment. When a truss will not cure an operation by a veterinary is nec essary There are many operations for this trouble, the most common one being the application of a clam, or skewers, but an amateur could not operate with safety

Age to Castrate.

At what age should colts be castrated !-D.T., Simcoe Co., Out.

Opinions differ on this point. The Opinions differ on this point. The younger the less danger, (provided, of course, he is healthy and normal), and of course the less the loss, should untoward results occur. In my opinion the better time is between 10 days and two weeks old. If not then, at moderate weather, when he made the moderate weather, when If a person wants his gelding to have the mascular wants his gelding to have the mascular than the property of the turned out on grass. If a person wants his gelding to have the masculine appearance of a stallion, he should not operate until he is two or three years old.

CRAIGIE LEA STOCK FARM HIGH CLASS

HACKNEYS AND CLYDESDALES

Some fancy performers for sale. Apply H. J. SPENCLEY, Box Grove, Ont.

CLYDESDALES

If you need Clydesdales (imp.) Canadian bred male or female, write to us at once. If we have not on hand what you need, will help you to buy. Reasonable terms, Stock guaranteed as represented. R. M. HOLTBY,

Manchester P.O. and G.T.R. Station. ane Phone. MYRTLE C.P.R. Riverside Farm

THE CROWN BANK OF CANADA Toronto, Ontario

HEAD OFFICE:

AUTHORIZED CAPITAL, \$2,000,0000.00

Special attention given to the business of Farmers, Cattle Dealers, also the accounts of Cheese Factories and Creameries. Sales Notes discounted. Money Orders issued payable at any banking town. Farmers' Notes discounted. Money loaned for grass or stallfeeding cattle. Municipal and school section accounts received on favourable terms.

SAVINGS BANK DEPARTMENT

Deposits of One Dollar and Upwards received and interest compounded 4 times a year.

Prompt attention given to the collection of Farmers' Sales Notes.

Free Veterinary Book

Be your own horse doctor, you to cure all the common all

The world's greatest ho remedy. \$100 reward failure to cure above dispossible. Write for the iseases where cure

TUTTLE'S ELIXIR CO., 13i Beverly St., Boston, M. atreal: H. A. Tuttie, Mgr., 32 St. Gabriel Resure of all blisters; only temporary relief, (f.

MURRANT'S

A BUSINESS SCHOOL conducted on the modern office plan. No classes. Individual instruction in separate apartments. Easy terms Write for particulars and booklet.

2 Gould Street :: Toronto, Ont.



ROCK SALT for Horses and cattle, in tons and Toronto Salt Works, Toronto.

PROSPECTING MACHINES

LOOMIS MACHINE CO., TIFFIN, O.



with name and numbers. For cattle, sheep and hogs. Write for sample and circular; free. F. G. JAMES, Bowmanville. Ont.

AYRSHIRES FOR SALE

Six Ayrshire Bulls, 18 to 30 months old, Twelve Ayrshire Bull Calves, 2 to 6 months old. Female Ayrshires, all ages, prices reasonable. One Exmoor Poney Stallion, price reasonable. Apply to D. RODDIN, Manager, or HON. W. OWENS, Proprietor
Monte Bello, Que

Horsemen and Stockbreeders, Attention!

DETROIT INSTRUMENT CO., 40 CONGRESS STREET, WEST DETROIT, MICH.

It is desirable to mention the name of this publication when writing to advertisers



Maple Syrup Makers

Did you ever stop and think that you can make your Maple Grove the best paying investmen on your farm for the actual time spent! The results are accomplished by thousands of up-to-date bugar Makeron on the American Continend and the control of th

THE GRIMM MFG. CO. 58 Wellington Street, Montreal

BIG BOOK BARGAINS.

100 Songs, Words and Music.
110 Comic Receitations.
110 Comic Rock, 100 Receipes.
110 Making.
110 Making.
110 Comic Rock, 100 Recipes.
110 Making.
110 Comic Received Recei

Any of the above sent to any address for 10 cents post paid, 12 for \$1.00.

USEFUL NOVELTIES CO.

Dept. F. TORONTO, CANADA.



Is the Rural Mail Delivery Run by the Politicians?

(Continued from page 5.) A LARGE PERCENTAGE

Although the foregoing regulations have been in force for only four years, over 50 per cent. of the 35,000 carriers now engaged in the service have been appointed in the manner de-scribed. At Clifton Springs, New York, our representative saw a notice hanging in the post office inviting any who desired to be appointed as any who desired to be appointed as rural carriers to apply for application forms. The notice gave particulars in regard to the examinations that would be held.

WHAT PEOPLE SAY

EV

General Black, who, as already stated, is a Democrat and the presi-dent of the Civil Service Commission, when asked by our representa-tive if political influences have any-

tive if political influences have anything to do with the appointment of the rural carriers or the selection of the rural routes, replied:

"There is no service in the Uni"ted States that is absolutely more
"free from improper political influ"ence than is the rural free mail
"delivery service. There is absolute"ly nothing of politics in the loca"tion of the routes or in connec"tion with the general administera"tion the service."

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD

READ BY 15,000 PEOPLE WEEKLY THIS DEPARTMENT is one of the most valuable in the Paper. At a cost of only Twe cents, word, you can advertise anything you wish to buy or sell, or situations wanted or

wish to buy or sell, or situations wanted or "THE". ADDRESS must be counted as part of the advertisment, and each initial or a number counts as one word. Minimum cost 25 cents each insertion. When replies are to be sent to pay postage on replies to be any to advertise. Cash must accompany each order. Cash must accompany each order. Cash must accompany each order. Cash must accompany to the counter of the control of the control of the counter of the control of the counter of the control of the counter of the cou

FOR SALE.—One belt power DeLaval cream separator, three thousand pound capacity, in first class condition. Only used three weeks. No reasonable offer refused as I have no use for same. FOLM ABINO CREAMERY, Hingway, Ont.

WANTED A first-class cheese-maker (married Up-to-date factory. Maker who has attendes Guelph Dairy School preferred. Good Posi-tion. J. J. Parsons, Jarvis, Ont. HOLSTEIN BULL FOR SALE four years old also two yearling bulls and bull calves, two cova. Write for prices and breeding.— SAMUEL LEMON, Lynden, Ont.

FOR SALE—Elegant Stock Farm, grand soil level, beautiful house and lawn. Box 227, Paris Ont.

FOR SALE—Two Clydesdale Stallions, one 4 years old imported and one rising 3 years old, Canadian bred. FRANCIS RUSNELL, Cedar-ville, Ont.

WANTED—Reliable agents to sell Fruit Trees etc., during fall and winter months. Terms the best in the business. Established overthirty years. PELHAM NURSERY CO., Toronto. FOR SALE—69 acres, if miles from the city of Brantford! brick two storey house, frame barn orchard. 19 oberry trees, 23 apple. The property, with horse, cutter, wagons, sletchs, and to the control of the control of the control sold for \$2.00. Come and see this property, Apply for further particulars to 8. G. Read & Son, Limited, 128 Colborne St., Brantford, Ont.

FOR SALE:—First class creamery, well equiped, in good dairying locality. For further particulars apply to Wm. Hoch, Killaloe Station, Ont.

Statum, one.

FOR SALE,—Two De Lavel turbine separators.

3.60 fba. capacity, also one Farrington Duplex.

Pasteurizer, 1,08 fba. capacity per hour. This pasteurizer is specially suited for a milk dealer's business, handling both milk and cream. Apply to Box L, Canadian Dairyman

FOR SALE—Clover cutter for Poultry, on stand, almost new—100 Chick Brooder at half price 20 lbs, granulated charcoal and other supplies. ZJ. H. Callander, Review office, Peterborough,

VIEWS OF OFFICIALS

Mr. P. V. De Graw, Fourth Assistant Postmaster General, who has charge of the rural delivery service, asked if political considerations had anything to do with the rural de-

saked if political considerations had anything to do with the rural delivery service, replied:
"None whatever. In the early days "of the service it did to some extent," but not now. The best evidence I "can give you of this is contained in "a letter I have just received from "Mr. D. E. Finley, of Yorkville, "South Carolina, a Democratic member of the Post Roads Committee, "in which he says:

It regard the the says:

It regard the the service has been extended throughout the country and the pay of carriers increased."

try and the pay of carriers increased and I am bound to say that to my knowledge it has been impartially

knowledge it has been impartially extended.
"If you desire further evidence," 'continued Mr. 'De Graw, "you will find it in the report of the Civil 'Service Commission for the year 'ending June 30, 1905, which, contains the following statement:

There is no service in the Govern-

There is no service in the Govern-ment to-day more popular than the rural delivery service, and it is be-lieved that it is largely due to the fact that the people feel that under the present system of making ap-pointments, the Government is co-operating with them, irrespective of polities or religion, to make it suc-cessful and popular, and, as far as possible, to furnish goods, honest, intelligent and reliable carriers.⁵⁷

THE SUPERINTENDENT'S VIEWS

The same question that was put to Mr. De Graw was asked Mr. W. R. Spilman, Washington, the superin-tendent of free rural delivery. Mr. Spilman denied emphatically that politics have anything to do with the service. He said:

"The appointment of the carriers

"has been out of the hands of the "members of Congress since 1902, "when President Roosevelt had the "when President Roosevelt had the 'service placed under the control 'of the Civil Service Commission. 'Applications for the establishment 'of routes are dealt with in the ord- 'er in which they are received and 'are never approved of until they 'have been favorably reported upon 'dy an inspector sent out by the Post Office Department.

"by an inspector sent out by the Post "Office Department."
"As far as possible, we try to secure country boys as rural carriers, "although we have a good many "position as carriers have to pass "a simple examination, including the "addition of a column of figures and "the filling out of a receipt form for "a letter. Their examination papers "are numbered, and mailed to "Washington where they are in"spected by clerks in the emisphot of the Civil Service Commission of the Civil Service 'who announce the results."

ALL SAY THE SAME

Not being entirely satisfied that politics might not have something to do with the services in some way to do with the services in some way our representative made still further enquiries. At Norfolk, Virginia, in the county near Washington, in the state of Pennslyvania, and in the state of New York, he interviewed postmasters, trual mail carriers, fatmers and farmers' wives. Many of them were Democrats. Not one was found who knew of politics be-"Dib. granulated charcoal and other supplies.

I. H. Callander, Bertew office, Feterborough, ont.

BARRED ROCKS and BUFF ORPINGTONS—
Best status—bred for utility—Eagr record hard to equal—Eagr 81.00 per 13, \$4.00 per 10.

The control of the territory of the control of the con

CREAM SEPARATOR

Easily and Thoroughly Cleaned Skimming Devices

To keep the skimming devices perfectly clean is of first importance, otherwise the quality of the cream suffers—profits diminish.

The majority of skimming devices are hard to clean. Some next to impossible to clean perfectly. But the Empire cones are easier than any others to keep clean and sweet.

They are of sheet steel, six in number, pressed into shape after fourteen distinct operations. They are accurate to a fraction, fit to a nicety—and it's utterly impossible to put them together wrong.

Light and nice to handle. surfaces are smooth as china, with no crack, joint, seam or rivet to catch the albumen and impurities of the milk which stick like glue if given a chance.

Nothing could be simpler than to take our brush and wash out these cones, as shown in picture. Inside and outside, every part readily accessible —easier to clean the Empire cones thoroughly than

to half-clean other skimming devices. Yes! we will gladly send you this Frictionless Empire, with its easier cleaned skimming devices, its lighter bowl, its simpler and smoother run-ning mechanism, its frictionless bear-ings, and guarant sed to skim as close as any other Separator made, for free trial in your own dairy.

Anyway, we ask you as a favor to drop a postal for FREE DAIRY BOOK which should be in the hands of everyone inter-ested in dairying.



PRIZE COMPETITION



Was won by a purchaser of the CANADIAN

AIR MOTOR

Stands to reason that the Service and economy of operation, of this indispensable machine, materially aided Mr. Mackenzie.

NO FARMER OR DAIRYMAN

can afford to be without one. But see that you get the Best, a cheap windmill will cause endless repairs

PLENTY OF WATER. IS THE SECRET. A Canadian Air Motor can be relied upon.

ANOTHER WRINKLE

was the up-to date system WATER BASINS

That helped to win the Prize

HAS THE "WOODWARD."

They are splendid articles that guarantee INCREASED PROFITS.

_____ MORAL: _____

IF YOU WANT Windmills, Gasoline Engines, Pump Tanks, Watering Troughs,
Basins, Cow Stanctions, Grinders, see the

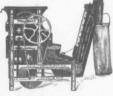
ONTARIO WIND ENGINE & PUMP CO. TOPONTO.

It is desirable to mention the name of this publication when writing to advertisers

Keep doing, whether it be at work or recreation. Motion is life, and the busiest is the happiest. The firefly shines when only on the wing; so it is with the mind, when once we rest is with the mind, when once we rest to the Lord .- D. L. Moody.

THE Hoover Digger





Perfection Seed and Grain Cleaner

The greatest improvement on the farming mill in 50 years. Cleans and grades all kinds of seed and grain and does the work of the farming mill as well.

Will pay every farmer to have one for his own seed grain.

This machine won the Diploma—the highest ward at Toronto London and Ottawa Fairs

in 1907.

Get them from your dealer and take no "ju as good," or write direct for catalogue a

THE TEMPLIN MFG. CO., FERGUS, ONT.

THE

Shorthorn Produce Sale

AT TORONTO

Annual Sale from the three big herds of The W. C. Edwards Co., Limited, Sir Geo. Drummond, K.C.M.G., and Peter White, at the

New Sale Pavilion, Union Stock Yards TORONTO JUNCTION,

THURSDAY, MARCH 5th, 1908

At One O'clock P. M.

20 BULLS

43 HEIFERS

None Better Anywhere. Be there and see the Greatest Sale Held in Canada for Years.

AUCTIONEERS:

Col. Carey M. Jones Capt. T. E. Robson

For Catalogues Address JAMES SMITH, Supt., Rockland, Ont.

Messrs. Robert Miller and Donald Dunn sell at Stouffville, March 6.



WALL TELEPHONE, MAGNETO TYPE

IS YOUR HOME INSURED?

Fire insurance won't keep your buildings from burning, but it helps to rebuild in case of fire.

HAVE YOU A TELEPHONE?

A good telephone will save you many long and weary drives. It may save your life in case of accident or sickness.

A good telephone system is the best possible insurance against lawlessness and against lonesomeness. Every community can and should own and control its own telephone system. The cost is merely received.

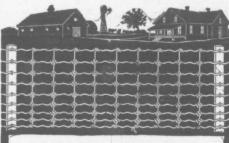
A good telephone will save you many times its cost every year.

We are building up a great Canadian industry. All of our goods are first-class and fully guaranteed.

Write us for full particulars, which we furnish free of cost.

Canadian Independent Telephone Co.

26 Duncan Street, Toronto, Ont.



Take a Look at a Farm Fence Worth Building

Ideal is the recognized standard fence for Canadian Railways. Railroads build fences for permanence. Canadian farmers are buying more ideal Fence to-day than any other make. They keep our two factories busy, turning out fence at the rate of 30 miles a day. You see this fence everwhere you go. You know these must be reasons. Just take a good

IDEAL FENCE

Looks strong, doesn't lif I it strong. I've made to last. All made of No. 9 hard steed wires, both horizontals and unrights, Heavierst fence were used. It adjust it steel in activement of the strong of the strong

Is the Argument sound? People who have investigated are buying it. Take a little time to think of the exercisat of goods. That why so near The Ideal has all of them, we know you'll want it theil when you know about it. We

THE McGREGOR BANWELL FENCE CO., Ltd.,
Department E. Walkerville, Onior

walkerville, Ontario

THE EDEAL FENCE CO., Ltd.,
Whankpop, Mankioba