MAND eterboro, Ont., April 2, 1914



A PROLIFIC SOURCE OF BAD EGGS-THE STOLEN NEST

Rural Publishing Co., Ltd., Publishers ONE DOLLAR A YEAR

22 Cows milked twice a day, in less than an hour for each milking, at a cost of 15c.

That's what the B-L-K Mechanical Milker is doing for one of Ontario's progressive dairymen. Read what he has to say :-

Tavistock, Sept. 22nd, 1913. D. DERBYSHIRE & CO., Brockville, Ont

D. DERIFERIHEE & CO., Brockville, Ont Dear size.—I have been using your B-L-K Milking Machine region for six months, and must say it has given perfect. We have a herd of 22 cows, and have not had a cuse of We have a herd of 22 cows, and have not had a cuse of we have a complete the months. The cows seem and anything since using the machine. The cows seem are relieved of their milk as o casy on them, and they are relieved of their milk as o casy on them, and they are relieved of their milk as one of the complete their milk as of the complete the complete their milk as of the complete the complete their milk as of the complete their milk as of the complete their milk as of the complete the comp

WM KAUFMANN, Tavistock, Ont.

Now, Mr. Dairyman, what the B-L-K is doing for others it will surely do for you.

Would you milk by hand 22 cows twice a day for 15 cents? Well, I guess not.

But we know you wouldn't object to have your milking done is a short space of time as Mr. Kaufmann, corresponding of course to the number of cows you have.

Sanitary milk, higher prices, saving of time and labor, and a score of other features, go hand in hand with the B-L-K. Let us tell you more about them,

Drop us a card NOW before the real rush is on, and we'll send you literature covering any or all of our lines.

D. Derbyshire @ Co.

Head Office and Works - - - BROCKVILLE, ONT.

Branches: PETERBOROUGH, Ont. MONTREAL and QUEBEC, P.Q. WE WANT AGENTS IN A FEW UNREPRESENTED DISTRICTS

OUR

SIXTH ANNUAL Dairy Magazine Number

OUT APRIL 9th

RICHT ALONG YOUR OWN LINE of business-Dairying.

IT'S THE SPOT for you to advertise THOSE SURPLUS CALVES THAT BULL you have for sale THAT COW with the big record. Have her photo in this issue. Let our other breeders get a line on your herd.

Drop us a card to-night for the space you will use on the 9th.

FARM AND DAIRY

PETERBORO, ONT.



The Dairy Profit Controversy as Seen by Our Cartoonist

Western Interest in Eastern Cooperation

A Ontario will launch a farmers' movement cuult to anything of the kind elsewhere in the Dominion." Such was the message arriving by night telegram from A. Creerar, President of the Grain Growers' Grain Company, of Western Canada, just previous to the recent meetings in Toronto at which Ontario farmers organized. Ontario farmers are not the ganized. Ontario farmers are not the ganized. Ontario farmers are not col-only ones interested in the new com-pany and association. The leaders of the farmers movement in Western pany and association. The leaders of the farmers movement in Western Canada have long looked forward to the day when the farmers from one end of Canada to the other should be united in defence of their common challenges of the should be a social to the common rights and for the upbuilding of a more progressive, more prosperous Canadian rural population. Previous to the meetings, messages were re-ceived in connection with the movement from many others of these western men

"I am looking forward with a great "I am looking forward with a great deal of interest to the reports of the meetings which you will hold on Thursday and Friday next, and only wish it were possible for me to be with you," wrote E. J. Freem, First Vice-President of the Grain Growers' Grain C. apany. "I hope indeed that Grain C apany. "I hope indeed that as a result of your deliberations you will become organized as The United Farmers of Ontario, and the many small links throughout the province bound into one solid chain."

bound into one solid chain.

Wm. J. Tregillus, president of the
United Farmers of Alberta, also expressed his delight. "We are pleased
to see this move and can assure you
that we send our heartiest good wishes for its successful organization, and
increals trust that it will accomplish es for its successful organization, and sincerely trust that it will accomplish all the work desired. We certainly need to get thoroughly organized, not only in the east or west, but both east and west, and I hope that we shall soon have a powerful organiza-tion of the United Farmers of Can-ada."

ada."

Mr. James Speakman, of Penfold, Alta, wrote: "If the farmers in the great province of Ontario make an immense stride forward long anized, we shall certainly make an immense stride forward and remained and the stride forward of the stride forward of the stride forward of the stride forward of the stride forward with the stride forward in the stride forward for the stride forward fo

United Farmers of Canaua.

A particularly inspiring message
was received from Rice Sheppard, a
Vice-President of The United Farmers of Alberta. "I cannot express my
delight," wrote Mr. Sheppard, "at
the action you are taking in Ontario,
and the interest that is being created our great cooperative movement.

HOPE your meetings will be in Hard has been the fight in the every way successful and that for years and at times I have Ontario will launch a farmers' that my flesh was too frail, tho the Hard has been the fight in the weekthat for years and at times I have felthat for years and at times I have felthat my flesh was too frail, though
the the spirit was determined to continue
n." the battle until victory was the criby of The United Farmers. I trust that all our good and true men of our or ganizations who have put their beganizations who have put their best with the farmers' cause for years past shall now see the fruits of their la-bour. Well, do I remember the night bour. Well, do I remember the night in Edmonton, when we were strivin, to unite the old Society of Equity and the Alberta Farmers' Association. It was one o'clock in the morning before we could decide on a name. I submit-ted The United Farmers of Alberta

Plans at Little Cost

Plans at Little Cost
Owing to special arrangements
that farm appelled arrangements
that farm appelled arrangements
with a large plan appelled arrangement
of pany we are in a position to offer
the small sum of 516. An architect
would charge \$75 to 5100 for drawwould charge \$75 to 5100 for drawfor the special pany sets of the same
in future issues of Farm and
in the same reasonable
terms.

Same and a service of

motto 'Equity,' and in speaking our motto 'Equity,' and in speaking of it I said 'Brothers, or reason why I must submit that name is that I think I see in the near future one grand organization of our fair Dominion. We will grow out and cooperate with our sister provinces until we even unite with the farmers of Eastern Canada, and some day he known as The United Farmers of Canada,' (WPL).

"What a grand dream. And now the farmers of Eastern Canada have the farmers of Eastern Canada nave it in their power to say that that dream shall be realized. I pray God that He will help you to decide this great question in the right way."

Messages were also received from E. Flatt, Tantallon, Sask., P. P. coodbridge, Secretary-Treasurer of Messages were also received from C. E. Flatt, Tantallon, Sask, P. I. Woodbridge, Secretary Treasurer of Alberta: F. Carswell, Secretary Treasurer Farmers Cooperative, Limited, of Alberta: Sara, these letters have been mers cooperative, Limited, of Albe-ta. Since these letters have been re-ceived the farmers of Ontario have organized. Every move that is mad-will be watched with interest by th-farmers of the West. It is "up" to the Ontario organizations to show their western brethren that they do not need to take second place even to the west in their ability to organ ize and to stay organized.



Trade increa Vol. XXX

TOW can yields? We must buy or grow right time, thi cultivate prope

Land intende broken out of being done in three inches. harrowing, rep every 10 days, weeds and ma spring Inst second plowing depth of six to ure having fire

If the suppl limited, comme properly applie be tested to ase ments. We ha sults from 500 following mixts Soda, 50 lbs. 250 lbs. Acid P iate of Potash.

RESULTS I The followin sults of a du the College in

This experim quirements of o other farms diff secured.

Fertilizer per a

1. No fertilizer
2. 50 lbs. Nitrate
50 lbs. Sulp
Ammonia...
3. 50 lbs. Nitrate
50 lbs. Sulphate
250 lbs. Acid F
4 50 lbs. Nitrate
50 lbs. Acid Ph
75 lbs. Muriate
Mineral fertil

Mineral fertil the spring. Th applied just bet quantities as ju

Good seed is show high gern stock. Our expe seed from caref ter results than Last year the fo than the best is BEST

The following varieties of diffe *Extract from an of 1913.

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of the page 23 eek, for irchitect or draw inchitect or draw inchitect inchitect on the same e combine apply. See given n and he see sonable e some

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The Recognized Exponent of Dairying in Canada

Trade increases the wealth and glory of a country; but its real strength and stamina are to be looked for among the cultivators of the land,—Lord Chatham

Vol. XXXIII

FOR WEEK ENDING APRIL 2, 1014

No. 14

How to Grow Big Crops of Roots

TOW can we obtain big root yields? It is the old, old story.
We must prepare the land well. buy or grow good seed, sow it in right time, thin the plants early, and cultivate properly during the season.

Land intended for roots should be broken out of sod, the first plowing being done in August to a depth of three inches. Discing, rolling and harrowing, repeated at intervals of every 10 days, will exterminate many weeds and make work easier in the spring. Just before cold weather a second plowing should be made to a depth of six to eight inches, the manure having first being applied.

If the supply of stable manure is limited, commercial fertilizers can be properly applied. Each farm should be tested to ascertain its own requirements. We have obtained good results from 500 lbs. per acre of the following mixture: 50 lbs. Nitrate of Soda, 50 lbs. Sulphate of Ammonia, 250 lbs. Acid Phosphate, 25 lbs. Muriate of Potash.

RESULTS FROM FERTILIZERS The following table shows the results of a duplicate experiment at the College in 1912:

This experiment indicates the requirements of our particular soil. On other farms different results might be

Some Novel Methods of Handling the Root Crop Advocated by a Specialist. Suggestions as to Best Varieties. Hand Work Almost Eliminated by Judicious Use of Wheel, Hoe and Harrow. The Preparation and Fertilization of the Soil

PAUL A. BOVINE, Root Specialist, Macdonald College, Quebec



Reots are an Important Factor in the Feeding of Old Country Cattle

Win. Duthic, one of the most famous shorthorn breeders of the Oid Land, was once asked by a Canadian visitor how many turnings he fed to a cow. His rapis, "As many as they will east; usually one wheelbarrow load to two cows." The Oid Country feeder has discovered the value of succulent feede in the proper of the country feeder has discovered the value of succulent feede in the proper of the oid Country feeder has discovered the value of succulent feede in the proper of the country feeder has the one of the country feeders as the one here illustrated are common on English farameted.

giant Yellow Intermediate ... Sugar Mangel ... Perfection Red Mammoth ... Prize-winner Yellow Globe ... Hall's Westbury Queen Kangaroo

It is to be noted that the varieties yielding the most tons of roots did not always give the most dry matter, on which depends the feeding value. Of course, the dry matter is not the only deciding factor; we must consider crown, shape, pronginess and keeping quality.

WHERE TURNIPS ARE PREFERRED

Although mangels yield best with us the same does not hold true everywhere. On heavy, land, swedes can be expected to do better; on light, sandy soils, one can expect fair returns from carrots, provided there is enough moisture. Soft turnips do well in almost any soil. Mangels require a soil that is in good heart.

The next table, compiled from four years' experiments, will help us to decide which is the best variety of

THE CASE				
Variety. 1. Prizewinner			Tons Dry Matter	
Yellow Globe	74.0	9.12	3.36	4
. Sugar Mange	36.7	9.82	3.61	2
o Our Ideal	36.2	7.42	2.61	12
4. Yeliow Levia			0.07	12
than (Ferry) 5. Tankard Crea	34.02	9.02	3.07	8
Sugar Beet. 6. Perfection Re	34.02	9.42	3.20	6
Mammoth	33.4	10.20	3.41	3
. Yellow Globe	33.3	9.06	3 02	
& Giant Yellow			3.02	10
Interned 9. Mammoth Lor	32.6	11.39	3.71	1
Red . Golden Tank-	32.3	9.91	3.20	5
ard (8) Long Red	31.6	9.61	3.04	9
Mammoth Golden Tank-	30.5	10 32	3.15	7
ard (E)	28.8	9.85	2.84	11
We may her	e note	a that	No 1	male illa

hat No. 1, while first in regard to yield of roots, comes fourth in content of dry matter, and thus fourth in order of merit. No. 8 in yield is first in dry matter and order of merit. Comparing No. 2 and No. 8, a man would haul four tons more of water from the field in the case of the latter. When feeding only a small quantity of roots, this extra water may be of value, but when feeding 25 to 30 lbs. a day, it need not be considered.

The time of seeding is the next important point. As a general rule carrots should always be sown

first, then mangels and swedes. Turnips can be sown to advantage in late June. With us, early seeding has given the highest yields in all cases, as the results of three years' experiments show.

	Seeded May 8 ons roots.	Seeded May 22. Tons roots	Seeded June 8. Tons roots	Seeded June 22	
Carrote Mangels Swedes Turnips	 29.6 32.1 34.2	24.3 26.6 28.7 31.4	18-2 16-6 20-4 28-3	18.5 21.9	

If swedes are sown for table use it is better to sow a little later and get a smaller yield of smoother roots.

Thick sowing ensures a good stand. When the rows are 25 to 30 inches apart, four to five lbs. carrot seed, 12 to 16 lbs. mangel seed, four to five lbs. swede seed and three to four lbs. turnip seed may be considered normal seeding. It may appear heavy, but a good stand is half the crop, and enables us to use the harrows effectively.

In regard to drills versus flat culture, I prefer the latter. The former is advisable in two cases: point. As a general rule, carrots should be sown

(Continued on page 6)

secured.	resums	might b	c 01	BB	ti
Fertilizer per acre.			Cost of		
Fertilizer per acre		Value of increase.		Inc. cf profit.	
1. No fertilizer	Tons.		inci-	pront.	
2. 50 lbs. Nitrate Soda	112				
50 lbs. Sulphate Ammonia	of 5.545	813.86	83.25	810.61	
3. 50 lbs. Nitrate Soda	0.040	010.00	90.00	\$10.01	
50 lbs. Sulphate Ammor	nía				
250 lbs. Acid Phospha 4. 50 lbs. Nitrate Soda	te 6.780	16.95	5.30	11.45	
50 bs. Sulphate Ammor					
250 ibs. Acid Phosphate	0				
25 lbs Muriato Potasi	h 0 045	99.16	7 07	45 00	

Mineral fertilizers should be spread early in the spring. The nitrogenous fertilizers may be applied just before seeding when in such small quantities as just mentioned. Good seed is an essential. It should not only

show high germination but also come from good stock. Our experience has been that home-grown seed from carefully selected roots will give getter results than seed purchased in the market. Last year the former gave 136 tons an acre more than the best imported seed.

BEST YIELDING VARIETIES

The following table shows the best yielding varieties of different classes of roots, 1909-1913 *Extract from an address at the Guelph Winter Fair of 1913.

Ten Acres Enough

Andrew McCrimmon, Ontario Co., Ont. "Ten Acres Enough," is the title of a book

that has attained an immense circulation, particularly among city people. It tells a story of a man who left the city and the stiff competition that the city business man must face to derive a comfortable and stable income from a 10-acre farm. I suppose that that book has given thousands of city people dreams of a country life free from worries, and an income sufficient for all necessities and many luxuries. I feel sure that all city editors have read "Ten Acres Enough." If not, why are they always preaching the little farm well tilled as the cure for the high cost of living and congestion of population in cities?

I will not deny that under certain conditions 10 acres may be enough or more than enough. I know of a few poultry farmers who are making a splendid living on 10 acres or less. I have met several market gardeners who considered a twoacre farm quite as much as they could attend to. The field, however, is limited. Suppose that all of the city people who dream of some day living on 10 acre farms, were to realize their dreams what an over-supply of poultry and garden preduce there would be.

MOST OF US MUST PRODUCE STAPLES

We cannot get away from the fact that while the small farm may be an attarctive enterprise for the few, the most of us who live by tilling the earth must depend on the great staple crops such as wheat, corn, oats, barley, hay and so forth. The majority of us, too, must convert these crops into butter, cheese and live stock. I seriously question the wisdom of advocating the "small farm well tilled," for the general farmer.

The first difficulty that a man with few acres would encounter in general farming is the ma-

chinery item. If one is to have a fairly complete outfit of farm implements there would be practically the same investment on the farm of 30 acres as on the farm of 100 acres. For instance, the small farmer would have to invest \$135 or more in a binder that would do the work of a 100-acre farm equally well. Similarly with the manure spreader, the hay loader, the mower, and so on down the list.

Another disadvantage that I believe would trouble the smaller farmer in connection with his machinery would be that he would not be able to use either machinery or men to the best advantage. In these days labor is a big item and the only way to make la-

chinery. The 30-acre farmer could not possibly afford to keep enough horses to haul the mosup-to-date machinery, and hence his labor would be working at a disadvantage. Even did he keep the horses and the machinery there would not be work enough to keep the men continuously busy. The machinery, representing a heavy investment, would be lying around idle most of the time.

Another drawback that I see to the small farm, which is so much advertised, is that too large a

percentage of the total capital would be invested in unproductive sources. Farmers nowadays are demanding good homes equipped with bath rooms, furnace heating and so forth. All of this represents an investment for the small farm that would not need to be increased on the large farm. Likewise, the cost for outbuildings. such as the barns, is greater proportionately on the small farm than on the large.

SMALL FARMS NOT PROFITABLE I would advise these city editors who are so strong on small farms to study Professor Warren's conclusions. Professor Warren, as I have

already learned from past issues of Farra Dairy, conducted an investigation of several dred farms in New York State varying great size. He found that unless devoted to some ial branch of small farming the small farm almost invariably unprofitable. It takes a few 100 to 175 acres to enable a profitable investm

I agree that the tendency to large farms menace to the well being of mankind. I death think, however, that the difficulty will be cauching."

come by over-booming the small farm to fibere is

Canadian Farmers Should Unite RODERICK McKENZIE, Secretary, Manitoba Grain Growers' Association

HERE ought to be the closest relationship between the farmers of Ontario and the farmers of western Canada. There are few farmers in Ontario who have not got friends or relations in the west. We have, therefore, both blood and economic relationship to bind us to-

Your problems are largely our problems. You have to fight the same kind of opposition that we have to meet. All other classes are organised. The business men in the towns are organised in their boards of trade. The labor men, the railway interests, and all other classes are organised. An organised army can defeat an unorganised mass many times greater in numbers. Unless we farmers unite we are going to be at the m of the other organised classes in the community.

In the west we farmers decided to get together and organise on the same basis as the business interests in the towns and cities. Our Grain

the only way to make 13bor profitable is by hav. The colt seen herewith, owned by C. L. Shaver, Unity, Saak, was o
ign the men work with when the photograph was taken. It was born on Dec. 26th a belief
in largest size of ma.

Desent, if you please "Witter colts are all right," says Mr. ?

Growers' Associations are really the same to us as boards of trade are for city business men. We farmers should take our place in the community and we should fit ourselves to do so. The hest way in which we can do this is by meeting together and talking things over both in local

In the west we aim to have local associations in every local centre. These are banded together

Extract from an address delivered at the Farmers onvention held in Toronto, March 19 and 30

in the provincial organisations. his wife and children are urged to join. Tahan knowled locals generally meet about twice a month. O anevitable res meeting is given over largely to the you many failures people. In this way our young people are trainer as man ed to express themselves while on their feet a your alfalfa they soon become familiar with the public que where as ther

THE CAUSE OF OUR TROUBLES Most of our economic problems arise from the trouble in sto fact that we have not given the study to pub, and Dairy. issues that we should and other interests have to have a lit taken advantage of our indifference. It is the heart talk w business of the steel interests, for instance, obtain the bonus they are now asking the Go ernment for. It is our business as farmers prevent them from getting it if we can, because we will be expected to pay most of the bonus Just as soon as we farmers learn to organise of cooperate the men who are enjoying special pr vileges at our expense are going to suffer In the west when we have put up bills in the towns advertising our meetings, men have gone around tearing down our bills to prevent us from getting together if they could.

We need an educational as well as a commercial organisation. One is thus able to conduct necessary educational campaigns on matters affecting our interests. The commercial organsation is left free to look after purely business

Our success has been due largely to the facthat we have confined our membership to farmens. Men at first opposed our efforts to organise. Failing in this we had men try to get inside our organisations so that they could use them for their own selfish purposes. Watch our for such men.

We would not let any one tell us how we are to run our farms. Why should we let others tell us how we should conduct the selling of our farm products? The wealth producers of Canada are exploited because they allow others to come in between them and the consumers.

The economic freedom of Canada has got to be brought about by the farmers of Canada. To do this we have got to train ourselves in the consideration of public questions.

It is interesting to know that during the compartively short time that the O.A.C. No. 21 barley has been introduced throughout Ontario in connection with the Experimental Union, it has increased rapidly, that it is now grown quite extensively, and that it is rapidly supplanting even the noted Mandscheuri barley which was introduced by our College in the spring of 1889. It is probably safe to say that, according to the results at the College and throughout Ontario, the O.A.C. No. 21 barley is the best variety of six-rowed barley under cultivation in the Province at the present time.-Prof. C. A. Zavitz, O.A.C., Guelph.

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your critics.

In our ow hood, on far side, with so practically th can find two of whom has and Dairy's a alfalfa, and is pleased with His first see three years as well. True, the siderable win one year, bu clover winter l ly as bad. H across the line tried alfalfa a crop is "no g If one man c there any reas only reason tha ledge of the cr

GC I believe the responsible for In spite of the Canadian Var the only ones believe that th used in our sec similar tender directly from S Canadian Varie trouble with ge it. I have been alfalfa seed for offering being ures with alfal nine cases out seed. Hence m Do not go to th seed that is offe because you ge Two condition

be detrimental ness. Alfalfa feet. I have s the heaviest cla st issues of Farra stigation of sever. State varying great s devoted to some g the small farm

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DUBLES sking the Gov as farmers t e can, because of the bonus

to organise o ng special pr ng to suffer bills in the en have gone event us from s a commer-to conduct on matters

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because you get poor results.

Two conditions of soil that I have found to be detrimental to alfalfa are wetness and sourness. Alfalfa will not grow where it has wet feet. I have seen splendid crops growing on the heaviest clay, and in what appeared to be

A Reply to Alfalfa

J. P. CAMPBELL, ONTARIO CO., ONT.

By the small farm.

ble. It takes a first the a profitable raves a first use in preaching it Farm and Dairy has lost a nice bunch of money for me of mankind. I deard. My alfalfa crop has never amounted to

in manatum.

I could as a similar farm to There is a lot of talk like this going around in the small farm to There is a lot of talk like this going around in the small farm to There is a lot of talk like this going around in the small farm to There is a lot of talk like this going around in the small farm to the smal generally read and where Farm and Dairy areles have induced a lot of people to give alfalfa

trial. Of course a lot these experimenters ave gone after the crop The farmewith more enthusiasm ged to join. Tahan knowledge, and the rice a month. O nevitable result has been by to the your many failures. If there s people are trai are as many kicks on on their feet a your alfalfa policy elseimmediate neighborhood,

I fear there is much as arise from the trouble in store for Farm study to pub, and Dairy. I would like r interests have to have a little heart to for instance, t your critics.

In our own neighborhood, on farms side by side, with soil conditions practically the same, I can find two farmers, one of whom has taken Farm and Dairy's advice to try alfalfa, and is extra well pleased with the crop. His first seeding made three years ago has done well. True, there was considerable winter killed one year, but then his clover winter killed equally as bad. His neighbor across the line fence also

tried alfalfa and is ready to declare that the crop is "no good." Does this look sensible? If one man can grow alfalfa on his farm, is there any reason why the other cannot? The only reason that I can think of is lack of knowledge of the crop.

GOOD SEED THE STARTER

I believe that seed of the wrong variety is responsible for much of the trouble with alfalfa. In spite of the fact that hardy varieties, such as Canadian Variegated and Grimm alfalfa, are the only ones advocated for use in Canada, I believe that the larger proportion of the seed used in our section has been of the Peruvian and similar tender varieties. I myself purchase seed directly from South-western Ontario, getting the Canadian Variegated variety, and have had no trouble with getting a good stand and keeping it. I have been told that there is very little good alfalfa seed for sale this year, the most of that offering being imported. If there are many failures with alfalfa this year we will be safe in nine cases out of 10 in attributing them to bad seed. Hence my first reply to alfalfa critics is: Do not go to the grocery store and buy the first seed that is offered you, then call down the crop

almost pure gravel, but I never yet saw a good crop growing on land that was either wet or sour. Good drainage is one of the first essentials to alfalfa success. Where the soil has a tendency to be sour an application of lime may make the difference between alfalfa success and

INOCULATION IS WORTH WHILE Inoculation is another point on which I lay considerable stress. Several experiments have

Getting Ahead of the Meat Trust in the Good, Old Fashioned Way

The time was when the spring and fall butchering were common on every farm in the country. To-day there are thousands of farmers who do not know how to kill and dress a hog. They are shipped alive pare thousands of parentsed at the meat at ore. Mr. E. A. Macdonald, of Lembton Co. Out., still holds to the old custom, as this illustration substitute testifiess. In most cases, however, the new plan of shipping alive is the better one. been conducted in this neighborhood in which

alfalfa has been seeded in two plots, one inoculated and the other not. Occasionally where to splendid advantage.

the soil was very rich it was hard to detect any difference in the growth of the two crops, but as a general rule the inoculated plot was much the healthier. It only costs 25 cts. to get alfalfa inoculated from the Bacteriological Department at Guelph, where I secured mine, and it is a precaution well worth while. Some of my neighbors simply haul soil from an old alfalfa field and spread it in the new one. This practice is O. K., but is more laborious and expensive than the use of the laboratory preparation.

If there are any alfalfa critics who have followed all the foregoing practices to the word,

then I have only one further suggestion to make. I noticed that up to last year Farm and Dairy, in common with other agricultural magazines, advocated seeding with a nurse crop of three pecks of barley to the acre. Last year the more general advice was to cultivate thoroughly up to the first of July and then seed without a nurse crop.

This I believe to be the preferable plan, particularly where the soil is weedy. Thorough cultivation during the early part of the season to a certain extent cleans the soil of weeds. Its chief value. however, is that the soil is put in first-class machanical condition and that the store of moisture for the use of the plants is much larger. If you have failed with alfalfa heretofore give this nonurse-crop proposition a chance. Above all, do not condemn one of our greatest forage crops until you

have tried it time and time again. Scores of us here in Ontario county are growing the crop

The Advantage of Small Fields

E all know that large fields are the most economical of labor seized of the importance of large fields that we are willing to spend good time and money in clearing away superfluous fences. Recently when delving through a neglected pigeonhole in his desk an editor of Farm and Dairy came across an extract from an address delivered by Mr. J. H. Grisdale at Campbellford a couple of years ago that sums up the large versus small fields so nicely that we were immediately tempted to publish it, old as it is. Here is Mr. Grisdale's view of the situation:

"If a man has decided upon the crops to grow and the rotation to follow the next thing is how to do the work. If he follows a short rotation he will in a short time become impressed with the importance of having his farm either divided into large fields or grouped with all the fields that are in one group in one part of his farm and the fields in another group in another part of the

"I notice that your farms here (Campbellford and vicinity) are rather badly cut up by dale, hill, waterways, and roadways, and I was serry

to note that there were very few square fields between here and Peterboro. In many cases I saw fields evidently belonging to the same farmer that were two, three, five or six acres, and some of these fields divided lengthwise by a huge ditch on each side of which were weeds or grass. There is no necessity for these ditches. If you have to have an open ditch let me give you a pointer on how to get rid of the ditch and have it at the same time.

"For 10 years I wrestled with that question on a certain field we had. I closed up the ditch and opened it and closed it up again, and tried under-draining; but I found we had to have a ditch to take the surface water away because it would lie there so long in the spring after a rain. This is what I did. That ditch was in a field of 40 acres; and it is not convenient to jump a three-foot ditch with the seeder. We dug that ditch to the depth necessary and then we started and each year for three or four years when the crops were suitable we hollowed away the ditch so that starting at the ditch we crowded it back about 50 feet till it made no appreciable differ-

(Concluded on page 7)

Cream of West Flour

The hard wheat flour that is guaranteed for bread

It makes great, big bulging loaves of the lightest, whitest and most wholesome bread.

Give Me a Chance to Prove My Flour

We want to make "Cream of the West" flour better known in every locality in Ontario. And with this end in view we offer the following

Family Cornmeal (per 98 lb. bag) 2 25



Special Prices Direct to the Farmer

	98-lb.	FEEDS	Per	bag	
Cream of the West Flour (for bread)		"Bullrush" Pran "Bullrush" Middlings			
Queen City Flour (blended for all purposes)	2 50	Extra White Middlings			
Monarch Flour (makes delicious pastry)	2 50	"Tower" Feed Flour			
		"Gem" Feed Flour			
CEDEALE		Whole Manitoba Oats			
CEREALS		"Bullrush" Crushed Oats			
Cream of the West Wheatlets (per 6 lb. bag)	25	Manitoba Feed Barley			
		Barley Meal		. 1	40
Norwegian Rolled Oats (per 90 lb, bag)	2 50	Oll Cake Meet (old process)			70

PRICES ON TON LOTS—We cannot make any reduction on above prices, even if you purchased five or ten tons. The only reduction from the above prices would be on carload orders. Then there would be a reduction in the freight charges (a carload contains 400 bags.)

Chopped Oats

TERMS, CASH WITH ORDER.—Orders may be assorted as desired. On shipments up to 5 bags, buyer pays freight charges. On shipments over 5 bags we will prepay freight to any station in Ontario cast of Sudbury and south of North Bay. West of Sudbury add to above prices 10 cents per bag. To points on T. & N. O. Line, add 15 cents per bag to cover extra freight charges. Make remittance by express or post office money order, payable at par at Toronto. Prices are subject to market changes.

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The Dominion Cook Book has no less than 1,000 recipes in addition to a large medical department. The books of Ralph Connor, Marian Keith, and J. J. Bell, are full of absorbing interest from cover to cover. You want every one of these good books in your library. Every time you order at least three bags of flour (any brand) you may choose any one of these books free. If you order six bags you may choose two books free, and so on.

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Man From Glengarry.
Glengarry School Days The Prospector.

Books by Marian Keith:-Duncan Polite. Silver Maple. Treasure Valley. 'Lisbeth of the Dale.

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For each book you choose be sure to enclose 10 cents to pay the postage. Bear in mind that if you order up to five (5) bags we will pay the freight on the flour to any station in Ontario, east of Sudbury and south of North Bay (see terms above.) To get a book at least 3 bags must be flour-the other two bags may be flour, or any other product mentioned in the list printed above. Add 10 cents to your remittance to cover postage and wrapping of each book.

THE CAMPBELL FLOUR MILLS CO., LIMITED **ONTARIO** (WEST) TORONTO

How to Grow Big Crops of Roots (Continued from page 3)

when the soil is shallow or poorly drained, and when it is weedy. Under other conditions I think level culture is cheaper.

We sow on the flat, rolling the land down over each row. Then we use a light harrow or weeder crosswise of the rows which keeps down weeds, and creates a mulch. When sown in drills the harrow can not be used. The harrowing need not be discontinued after the small plants appear. By thick seeding there will always be enough plants.

The wheel hoe should be used on every farm. A double wheeled hoe is better than a single wheeled because it works steadier. It should be followed as soon as possible by the horse

Many tons of mangels are lost each ear by too late singling, as the following results show:

Tons Roots
sper Acre.
Tons Loss by Delay
First Singling. 27.6
Second Singling 25.5
Third Singling. 22.4
Fourth Singling 20.8
The five Comments of Stones and Week

The first singling was done when the first two adventitious leaves ap-peared. Referring to our feed units a loss of 6.8 tons is equivalent to a loss of 24 bush. of corn. When insects are a serious pest it is often well to leave three or four plants in a place to be singled later when the attack is over.

NO HAND THINNING OF CARROTS

Carrots should not need any thin-ning with the hand hoe; the harrow will do all that is necessary. The pro-per distance apart for swedes and tur-nips is 10 to 12 inches, and eight to

rine inches for mangels.

Frequent cultivation, especially after rains to break the crust, is important. In an experiment which I once conducted with three varieties of mangels, six cultivations more than doubled the yield of two cultivations conditions.

under the same conditions.
Although one class of roots may be superior in a locality, it is well to grow more than one kind. Sufficient mangels should be grown for spring feeding where turnips do best, and soft turnips are very desirable for early fall feeding even on the best mangel farms.

manger rarms.

The last word I would say: Grow your own root seed, and remember that one pound of dry matter in roots equal in feeding matter to one

pound of grain.

Items of Interest

Elgin county people are naturally Eigin county people are naturally proud of Eigin county, which they term "the best agricultural district in the Dominion of Canada." Recently, to get residents of the district in better touch with the resources and possibilities of Eigin, the Board of Trade and Publicity Association have got out a neat booklet which illustrates attractively the agricultural and industrial resources of the county Booklets will be mailed to those whos of the county names and addresses are forwarded to the Elgin Board of Trade and Publicity Association, Court House, St. Thomas, Ont.

Joseph Tremblay, who has a large farm at Beauport, Que., has suffered a heavy loss through hog cholera; 130 animals died within a few days from the disease. The Federal Government, through Dr. Gauvin, V.S., gave orders for the destruction of the remainder of the herd, over 300 in number. This was done and the car-casses burned. Tremblay's loss will Tremblay's loss will nity of \$8,000. The casses burned. be in the vicinity of \$8,000. The government will reimburse him to the extent of two-thirds of the value of the animals

April 2, 1 The

"I" the optime has terests o quently in to implements moved." Thi importance t was introduce mons recently member for in response t our subscribe gives herewith though the n man who ta reads it.

"The grow gricultural

Knowles, in tion, "shows been on an ing than an industry. 1 When the tar our exports ments, amour tariff on agric next revised our exports a Our exports i ending March \$6.152,559. tion was mad tariff on agric reduced from Maokenzie Go per cent, our more than 13 last year when cent were 13 were when the in 1894. Our factured goods not grown to tent. They ha a half times. anufactured ed to \$7.692.75 692,708. They half times as a case of agricul-"Let us mak our exports a

all manufactur import mo: much as we ex imported to the 943, and our e tured goods am or not one-tent ported. We fin the case of agr Last year we worth, and worth; that is one and a half imported, where tured goods as 10 times as muc

Mr. Knowles reason or justic made it possible facturers of agr to sell their n plows cheaper Germans, or ev Australians than Canadian farme ment manufact strated that the foreign manufac ket in the world market they cla

the protective ta In support of implements can cheaply in Canad Knowles resurred given by Mr. M sented the Inter Co., before th Committee at the ington in 1908 swore that it o same to manufa

(7)

The Duty on Agricultural Implements

It ime has, arrived when in the interests of the farmers and the presented had factories in both terests of the farmers and the presented had factories in both the presented in the presented had factories in both the presented in the presented had factories in both the presented in the presented had factories in both the presented had factories in the presented had factories in both the presented had factories in both the presented had factories in the presented had factories i man who takes a daily paper and reads it.

man who takes a daily paper and reads it.

"The growth of our exports in agricultural implements." and Mr. Knowles, in support of his resolution, "shows that this industry has been on an entirely different footing than any other manufacturing industry. It can stand free trade. When the tariff was revised in 1894 our exports of agricultural implements was used to the state of the in 1894. Our exports of other manuand it was ju factured goods during that time have anywhere else. not grown to anything like that ex-tent. They have grown only five and a half times. Our exports of all manufactured goods in 1894 amountmaintractured goods in 1933 to \$43,-692,708. They had grown five and a half times as against 13 times in the case of agricultural implements.

case of agricultural implements. By adopting the method I have just described he could have that in one cour exports and imported. Taking field.

"Let us make another comparison: of the court exports and imported the first provided field."

"Do away with all these little bits field.

"Do away with all these little bits of fields. There is no longer any nuch as we export. Last year we insported to the amount of \$462,461, cows here and on other yorder. Get better and another yorder. Get better and another yorder. Get so from the case of agricultural implements. In the labor of linging a number of the case of agricultural implements. In the labor of linging a number of the case of agricultural implements. Small fields into large fields in one the case of worth, and exported \$4,145,184 year. It concentrates your work and worth; that is to say we exported one and a half times as much as we it enables you to we larger machines. one and a half times as much as we imported, whereas, taking manufac-tured goods as a whole, we imported 10 times as much as we exported."

The times as much as we exported."

Mr. Knowles failed to see the reason or justice in a tariff which made it possible for Canadian manufacturers of agricultural implements to sell their mowers, binders and plows cheaper to Frenchmen and Germans, or even to Russians and Germans, or even to Russians and Australians than they do to our own Canadian farmers. Canadian implement manufacturers have demon-strated that they can compete with foreign manufacturers on any mar-ket in the world and yet for the home market they claim the protection of

١	Guide as follows						
	Implement		inni	peg.	Minnes	noli	
	8-foot binder		\$162	00	8140	00	
	7-foot binder		157		125		
	6-foot mower		60	60		00	
	5-foot mower		60	50	43		
	10-foot hay rake		22	60	24		
	12-foot hay rake	**	10	00			
	70 bushels man	11 70	00	00	28	00	
	spreader	ure	165	00	100	-00	
	12-inch gang plou	mb.	100	00	120		
	14-inch still be	gu.	10	00	60	00	
	walking plaush	am					
	walking plough.		17	00			
	Hay tedder		49	50	36	00	
	The question	***	1	4	4 4		

and it was just as good a crop as

A PATCHWORK FIELD

"I saw a smaller field about 10 miles from here where a farmer had a big ditch across a field of about 16 acres and it was divided into about 10 acres on one side and six on the other; and it was a triangular field. By adopting the method I have just described he could have that in one

tools from one field to another, and it enables you to use larger machines. When you have not your farm into large fields and are following the right rotation you will wonder why you did not do it before "I know you are not doing it, be-aues I see thousands of farms yery

"I know you are not doing it, because I see thousands of farms every year where it is not done I suppose there is not a farm in this audience to-day but does not know what good rotation is and what the set of the transparent in the set of the

The question is frequently asked, "Is it safe to plant potatoes on a field where blight and rot have been destructive the previous season?" market they claim the protection of the question is frequently asked, the protective tariff.

In support of his contention that field where blight and rot have been implements can be manufactured as descructive the previous season?" cheaply, in Canada as elsewhere, Mr. The New York Agricultural Experience of the testimony ment Station answers, in Bulletin given by Mr. Metcalfe, who repre- No. 367, that the fungus causing sented the International Harvester blight and rot does not surrive freezeo, before the Ways and Means ing in the soil; so that, under all or-committee at the Congress in Wash-dinary conditions, it is as safe to form the sentence of the congression of the sentence of the sentence of the ways and Means are plant potatoes in a field where these awore that it cost practically the diseases have prevailed during a past same to manufacture in Hamilton season, as in any other place.



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Satisfaction follows the use of this Separator

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are the It is built to last.

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SEED CORN-See our catalogue. We guarante 80% or better germination

SEED OATS-We have still sooms good clear O.A.C. No. 72 at \$2.75 bush,

bags free. We also offer a very special to a fine the bush of the bush bags free that the company of the bush of the bush bags free. These oat are just the bush of the b

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WHY MAN OF TO-DAY IS ONLY 50 PER CENT. EFFICIENT

BY WALTER WALGROVE

the number of helpful, inspiring and informing articles one sees in the public press and magazines, the purpose of which is to increase our officiency, he must believe that the entire Dominion is striving for such an and

And this is so.

The Canadian Man because race is swifter every day: competition is keener and the stronger the man the greater his capacity to win. stronger the man the stronger his will and brain, and the greater his ability to match wite and greater his confidence in himself, the greater the confidence of other people in him; the keener his wit and the clearer his brain.

The Canadian Woman because she must be competent to rear and manage the family and home, and take the thought and responsibility from the shoulders of the man, who present-day business burdens are all

that he can carry.

Now what are we doing to secure that efficiency? Much mentally, some of us much physically, but what is the trouble?

We are not really efficient more than half the time. Half the time blue and worried—all the time nerv-ous—some of the time really incapacitated by illness.

There is a reason for this-a prac tical reason, one that has been known to physicians for quite a period, and will be known to the entire World ere

long

That reason is that the human sys does not, and will not, rid itself of all the waste which it accumulates under our present mode of living. No matter how regular we are, the food we cat and the sedentary lives we live (even though we do get some exercise) make it impossible; just as impossible as it is for the grate of a stove to rid itself of clinkers.

And the waste does to us exactly what the clinkers do to the stove; make the fire burn low and inefficiently until enough clinkers have accumulated and then prevent its burn-

ing at all It has been our habit, after this

aste has reduced our efficiency about 75 per cent, to drug ourselves; or, after we have become 100 per cent inefficient through illness, to still further attempt to rid ourselves of it in the same way-by drugging.

If a clock is not cleaned once in a while it clogs up and stops; the same way with an engine because of the residue which it, itself, accumulates To clean the clock, you would not put on the parts, though you coul probably find one that would do the work, nor to clean the engine would force a cleaner through it that would enjure its parts; yet that is the process you employ when your drug the system to rid it of waste. when you

You would clean your clock and engine with a harmless cleanser that Nature has provided, and you can do exactly the same for yourself will demonstrate before I conclude

The reason that a physician's first in illness is to purge the system is that no medicine can take effect nor can the system work properly while the colon (large intestine) is clogged up. If the colon were not clogged up. If the colon were not clogged up the chances are 10 to 1 that you would not have been ill at

It may take some time for the clogging process to reach the stage where it produces real illness, but, no mat-ter how long it takes, while it is going on the functions are not working so as to keep us up to "concert pitch." Our livers are sluggish, we are dull and heavy—slight or severe

F one were to form an opinion from backaches come on - our sleep does not rest us—in short, we are about 50 per cent efficient.

And if this condition progresses to where real illness develops, it is impossible to tell what form that illness will take, because—
The blood is constantl- circulating

through the colon and, taking up by absorption the poisons in the waste which it contains, it distributes them through the system and weakens it so that we are subject to whatever

disease is most prevalent.

The nature of the illness depends on our own little weaknesses and what we are the least able to resist. These facts are all scientifically

correct in every particular, and it has often surprised me that they are not more generally known and appre-All we have to do is to consider the treatment that we have received in illness to realize fully how it developed and the methods used to remove it So you see that not only is accumu-

waste directly and constantly pulling down our efficiency by mak-ing our blood poor and our intellect dull—our spirits low and our ambidull—our spirits low and our ambi-tions weak, but it is responsible through its weakening and infecting process for a list of illnesses that if catalogued here would seem almost unbelievable.

the direct and immediate cause of that very expensive and dan-gerous complaint—appendicitis.

If we can successfully eliminate

the waste all our functions work properly and in accord - there are no poisons being taken up by the blood so it is pure and imparts strength to every part of the body instead of weakness there is nothing to clog up the system and make us bilious, dull, nervously fearful With everything working in perfect

accord and without obstruction, brains are clear, our entire physical being is competent to respond quick ly to every requirement, and we are 100 per cent efficient

Now this waste that I speak of cannot be thoroughly removed by drugs, but even if it could the effect of these drugs on the functions is very unnaand if continued becomes a

periodical necessity.

Note the opinions on drugging of two most entirent physicians. Prof. Alono Glark, M.D. of the New York Coliege of Physicians and Surgeons, says: "All of our curative agents are says: "All of our curative agents are dose diminishes the patients vitality." Prof. Joseph M. Smith, M.D. of the same sahooi, says: "All medicines which the same manner as do the poisons that produce disease," and organism can be kept as well and pure and clean as the external and by the same natural, same method—batting By the proper system method—batting By the proper system the colon is perfectly cleansed and kept pure. two most eminent physicians Prof. Alonzo Clark, M.D., of

the colon is perfectly cleaned and kept pure.

There is no violence in this process— it seems to be just as normal and natur-al as washing one's hands.

Physicians are taking it up more wide-ly and generally every day, and it seems as though everyone should be informed thoroughly on a practice which, though so rational and emple, is revolutionary or rational and emple, is revolutionary

thoroughly on a practice which, though so rational and simple, is revolutionary so read that the second of the sec

Treatment of Smut

John McNab, Brome Co., Que. A field of grain badly infested with smut once represented to me an undesirable but nevertheless unprevent-able evil. It never occurred to me that it might indicate a farmer who was not as well unto his job as he might be. Now smutty grain is just a representative of carelessness or might be. ignorance, or both. Since I have found that smut is one of the most easily preventable of diseases I feel in a position to smile at the other fellow, though it isn't so long since

fellow, though it isn't so long since I was in his class.

For the past few years I have been treating all seed grain by the formalin method. This method is simplicity itself. Throughly sweep the drive floor. Spread the seed grain three inches deep over the floor, then moisten with a solution consisting of a pint of formalin to 40 gallons of water. I apply the solution with an ordinary watering can. I then move the grain over with a shovel and grain is moistened I scoop it into a corner, cover it with sacks and rugs in order to confine the gases, and is no danger of smutty grain from that seed. This process I have found so simple

that I would use it even if there were no smut on the farm. It is cheap as an insurance. Formalin can be sean insurance. Formalis cured at any drug store.

Growing a Balanced Ration L. K. Shaw, Welland Co., Ont

Why buy expensive concentrates to balance the dairy cow's ration? I can grow a balanced ration. I have done so ever since I started farming.

There are two necessary qualities in a good ration: balance and palatability. Both are essential to the best results.

By

balance I refer to the relative quantities of protein and carbo-hydrates and fat. Corn ensilage exceedingly rich hydrates, but deficient in fat. A good milch cow in order to get enough protein from corn ensilage alone, would have to consume several times as much carbohydrates as she could possibly make use of.

With alfalfa hay the situation is irectly opposite. Here the cow directly opposite. Here the would have to eat several times much protein in order to get a suffi-cient supply of carbohydrates. A sane and sensible thing to do is to grow both corn and alfalfa and feed the two together. We then have a

balanced ration.

Palatability in the ration is of equal importance with balance, for a ration, be it ever so well balanced, will not be consumed unless the cow likes it. I have found that cows will eat well cured alfalfa hay with likes it. will eat well cured alfalfa hay with meal lying at the other side of the manger. They prefer the hay. No one questions the palatability of corn ensilage. Thus we have both balance and palatability in these two feeds.

When advocating this ration at our Farmers' Club I was asked if it was not too bulky. I had to admit that for a heavy milking cow, one giving 40 to 60 lbs. of milk a day, a more concentrated ration is needed. I myself use bran and cotton seed meal. Most dairy farmers, however, have cows that can be fed very satisfactorily on roughage alone, providing it is good roughage. Where alfalfa

weenessessessessessess bulky ration. I am giving these sug-FARM MANAGEMENT squatters are now ordering their seed for the coming year and planning their crops. The plan that I have outlined works splendidly in my own case.

For Better Meacows

A. McKenzie, Wentworth Co., Ont. In many sections our meadows are not as good as they were some years ago, and yields are decreasing. Here are a few of the things that I look for in a good meadow:

In the first place the soil must be well drained. The best quality of hay is never produced on a wet soil. Increased yields following on good drainage will soon pay both principal and interest on the investment.

The soil of a good meadow must be ell supplied with organic matter or A meadow in which a recu humus. lar rotation of crops is followed, and which is not left under sod too long. will usually have a plentiful supply Top dressing with a manure spreader, where manure is plen tiful, is also a desirable practice and aids to the humus content of the soil. Of course the soil in a meadow must be of good tilth and seed. Many

otherwise good crops have sour soils. and the biggest single improvement that could be made would be an application of lime.

An important point in establishing a meadow is that a good mixture of grasses and clovers be sown. not stint the seed; 25 to 30 lbs. of seed to the acre is not too much where the meadow is expected to yield both hay crop and pasture.

Vitality of Seed

Assuming that every care has been token to get seed well adapted to the conditions of culture, it is still important to see that the seed is of good vitality and capable of producing Great waste strong, vigorous plants. of land and labor results every from the use of seed of low vitality.
Poor seed cannot produce good

produce good plants, and poor plants give poor re-turns or none at all. Seed should al-ways be tested before planting, and eed of low vitality rejected. of this poor seed is introduced to blend with good seed so that it can be sold at a lower price. Some of the worst weeds have been introduced and spread in this way. The loss from weeds and the cost of fighting them is great and is so well understood as to need no discussion. often buy cheap seed,

thinking that they are saving money, when as a matter of fact they are paying two or three times as the small amount of good seed obtained as they would pay had they bought good seed in the first place at twice the rate per pound paid for the poor seed.

Farms are selling at high prices; 190 acres for \$20,600, and 90 acres for \$11,000. Some front land has gone at\$ 10 a foot for 80 feet.—Wm.Squire, Essex Co., Ont.

Are there any charity boarders in your herd? We hope not, after all the testimonies that we have had in Farm and Dairy from successful dairymen who have eliminated the dead beats from their herds.

Did you read that description of Mr. R. W. Ireland's farm in the Horticultural Number of Farm and Dairy? Mr. Ireland has a division of labor in the management of his terity on roughage atone, providing of labor in the management of his it is good roughage. Where alfalfa farm that we neglected to mention, is not available, and some years I His nephew, Mr. C. F. Ireland, who have not as much as I would like, and has lived with his since a small boy, clover must be fed, it is advisable to is handling the farm and dairy part feed a little bran and oil cake or of the business, while Mr. Ireland is cotton seed meal along with the devoting himself to the orchards. March 26,

You insu Whynot There is your buildi but there i

tainty that you negle well protec Protection character of Some paint p decay and so

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REDUCED SETTLERS' FARES
(ONE-WAY SECOND CLASS)
EACH TUESDAY, MARCH AND APRIL Settlers travelling with live stock and effects should take SETTLERS' SPECIAL TRAIN which leaves West Toronto each Tuesday during MARCH and APRIL after arrival regular 10.30 p.m. train from Toronto Union Station.

Settlers and families without live stock should use REGULAR TRAINS, jeaving Toronto 10,30 p.m. DAILY. Through Colonist and Tourist Stoepers.

Through trains Toronto to Whatipes and cut. COLONIST CARS ON ALL TRAIN harge for Burths.

retroiters from Canadian Paritie As

M. G. Murphy, D.F.A., Seconds

Bulls Running at Large

A deputation representing several of the live steek associations, more particular the dairy cattle breeder's associations and the dairy cattle breeder's associations, which was been associated by the dairy cattle for legislation association of the dairy of the dair deputation representing several Hon. Mr. Duff gave the deputation a sympathetic hearing, and later the members of the deputation had a long interview with Deputs of frame a bill covering the desires of the deputation for submission to the Legisla-

It was decided to reduce the pro-posed minimum fine of \$50 where bulls are found at large to a mini-mum fine of \$25. Among those on the deputation were Alex. Hume and the deputation were Alex. Hume and Wm. Stewart, of Menie, representing the Ayrshire Breeders' Association; the Messra. Bull. of Brampton, repre-senting the Jersey Breeders' Associa-tion, and Messra. R. F. Hicks, New-tonbrook; W. A. Clemons, St. George; J. W. Richardson, Caledonia; D. C. Flast, of Multrages. Flatt, of Millgrove, representing the Holstein breeders.

Free Drainage Surveys

Farmers! Have you a field on your place that is too "wet, cold and sour?" Drainage will reclaim it and make it one of the best fields on farm.

Drainage does four things. First removes the surplus water and makes it possible to cultivate and correspondence corre

Results for Advertiser

A Country in the property of t Surveyers

seed about three weeks earlier in the spring than on the same land when undrained. Secondly, it makes the land from 10 to 15 degrees warmer han if not drained, and this warmet han if not drained, and this warmet han if not drained, and this warmet han if we have been described by the land of a constant of the land of seed about three weeks earlier in

of the crops in time of drouth.

Frequently the increase of crop in
ne year pays for the drainage, and
ne year pays for the drainage, and
seldom or never does it take longer
that the years, so that drainage
that from 35 per cent to 100 per cent
per annum on the money invested,
per annum on the money invested,
per annum on the money invested.
He bepartment of Physics of the
Ontario Agricultural College will
assist Ontario farmers on applicasaist Ontario farmers on applica-

Ontario Agricultural Collego will assist Ontario farmers on application. They will nake you a complete tion. They will nake you a complete survey of the area to be drained, or run a single line of drain, and when done furnish you with a finished map showing location of drains, grades, sizes of tile, etc.—a detailed guide for the thorough drainage of the land in question. No charge is made for the services of these drainage advisors, nor for the maps, only the applicant pays the travelling expenses in connection with his survey, amounting usually to not more than a couple of dollars.

Drop a card to the Department of Physics, O.A.C., Guelph, for the re-gular application form.





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Proved best by years of use.

PRAIRIE Harvester Oil

The most durable oil for farm machinery. Unaffected by changes in temperature. Will not gum or corrode. Reduces friction to a minimum. A splendid lubricant.

STANDARD Gas Engine Oil

Meets all requirements for a cylinder oil for gasoline and kerosene engines. Lubricates properly under all conditions; practically free from carbon. Equally good on external bearings.

Recommended by the leading engineers and engine builders.

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White Cap Yellow Dent. Matured early. Germination guaranteed. Apply

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Money back if not satisfied Send for Price List

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FOUR BIG STRAWBERRIES

and commonplants are exceedingly
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Berries large and richlylarge are and richlying and table qualities
excelled. Price not
path, list plants, 25 or
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st of all field Carrots. § 1b. 80c. § 1b. 7bc. 1 lb. \$1.20, 3 lbs. \$3.00.

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5 lb. 26c., 1 lb. 35c, 5 lbs. 8] 150.0 BRUCES GIANT KING SWEDE TURNIP—An improvement on Jumbo, or BRUCES GIANT KING SWEDE TURNIP—An improvement on Jumbo, or St. 1 lb. 18c, 8 lb. 26c, 1 lbs. 5 lbs. 1 lbs

FREE —Our handsomely illustrated 112-page catalogue of Vegetable, Farm and Flower Seeds, Plants, Bulbs, Poultry Supplies, Garden Implements, etc., for 1014. Send for it.

John A. Bruce & Co., Limited., Hamilton, Ontario.



Orchard and Garden Notes

Watch the hotbeds closely.
Ventilate hotbeds on the side away from the wind if possible.
Manure may be spread on the garden and plowed in next spring.
Be sure the manure is heating evenly before it is put in the frame. Brothed manure does not heat rediffer on a few buckets of hot water,

Bank hotbeds with manure that is not heating. Dry manure will not be so likely to freeze and take heat from

so likely to freeze and take heat from the frame.

When pruning have a reason for every cut made and cut close to the limb or trunk. Leaven no stubs.

Pruning may be done late in March. Cover all wounds over one-half inch in diameter with white lead

or grafting wax.

Inspect all garden tools, sharpen and put them into the best condition. Perhaps there are some new ones that should be purchased. Now is a good time. Look them up.

time. Look them up.
Grafting wax is made by melting
together four pounds of resin, two
pounds of beeswax, and one pound of
unsalled tallow. Heat this about 15
or 20 minutes, then throw into cold
water and pull in the same manner as molasses candy.

Our Apples in South Africa W. J. Egan, Trade Commissioner.

Cape Town Opinion among the various dealers varies in reference to Canadian apples received in South Africa this year. Durban dealers report grading and packing of Nova Scotia fruit to be all right in every particular. They complain, however, that Nova Scotian Kings and Wagners on the whole were a great disappointment, as they were a great disappointment, as they were poor in color and in keeping qualities. The Ontario fruit, such as Ben Davis, Kings, Russets, and Spies left no-thing to be desired.

Port Elizabeth dealers were well Port Elizabeth dealers were well satisfied with consignments to them, but state that they did not receive all they had arranged for, one large dealer claiming that although he booked space early last May, he failed to secure accommodation for his second shipment.

A SPLENDID MARKET

The apples which arrived in Cape The apples which arrived in Cape Town were, with the exception of one lot of Golden Russets on the s.s. Benguela, in very good condition, but were not graded in all cases as they should be for export. The difference in grading of the apples received in Cape Town and other ports must be attributed to the fact that almost all attributed to the fact that almost all the apples shipped to this port are purchased by local dealers, who visit Canada annually, while the fruit to other ports is consigned by Canadian producers or dealers. The South African market during

October, November, and December is a splendid one for good Canadian apples, and will command high a splendid one for good Canadian apples, and will command high prices. This office invites early correspondence this year with the view of consignments for next year and advise the securing of space in cold storage chambers early in the season.

"The San Jose and Ovster Shell Scales" is the subject of Bulletin 219 from the Ontario Department of Agri-culture. Mr. L. Cassar, the author of the bulletin, is Provincial Entomolo-

gist, and is in a better position to deal with this subject than any other man in Ontario. The wide distribu-tion of the San Jose Scale through the Lake Eric counties makes the bulletin a timely one. It can be se-cured on application to the Department of Agriculture at Toronto.

Fertilizer for Fruit

F. V. Thompson, German Polash Syndicate, Toronto Unfortunately we have not received

a number of results of the fruit ex-periments conducted during the last season. I will quote a few results that have come to hand.

Mr. W. H. Gibson, of Newcastle, Ont., obtained the following results on Baldwin apples: Unfertilized plot, on Baldwin apples: Unfertilized plot, 337½ bus.; porocited fertilizer plot, 437½ bus.; plot without potash 336, 50 bus.; plot without potash 336, 50 bus.; plot without plot 332½ bus.; plot without nitrogen 332½ bus. This was the second year of this experiment, which will be conducted over a number of years with several others to give reliable data regarding Ontario orchards. Apples from the complete fertilizer plot were taken in 1912 by the Dominion Government for exhibition purposes.

ernment for exhibition purposes.

Mr. Stratton, Port Hope, Ont., obtained the following results on his strawberries: Plot 1, unfertilized, 2,030 boxes; plot 2, complete fertilizer, 3,040 boxes; plot 3, without rusafs, 2,806 boxes; and plot 5, without nitrogen, 2,600 boxes. While this oxperiment fully shows the value of 2 complete fertilizer, it also shows that nitrogen was deficient in the soil we not the contract of the contr nitrogen was deficient in the soil as the lowest yield of the fertilized plots was from that from which nitrogen was omitted.

The following results were obtained by A. E. Gale, Keatings, B.C., on by A. E. Gale, Keatings, B.C., on strawberries, which were only set out in April last year. Owing to bad weather and lack of help the blossoms-were not picked and each plot was allowed to bear what fruit it would with the following results: Plot 1, 444 lbs.; plot 2, complete fertilizer, 1,344 pounds; and the plot without potash, 900 lbs.

An experiment on gooseberries conducted under the supervision of the District Representative at Simcoe re-District Representative at Simcoe re-sulted in the following yields: Un-fertilized plot, 11,360 lbs. an acre; complete fertilizer plot, 15,872 lbs. an acre. This shows a gain of 4,012 lbs. an acre in favor of the fertilizer, which you will readily admit is a substantial profit on the investment.

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Remarkable discovery by English Firm

A remarkable holeproof cloth that will not tear or wear out and yet looks ex-actly as the finest tweeds and serges has been discovered by the Holeproof Cloth-ing Co., 54 Theobalds Road. Londou, W.C.. Eug. They make from these wonderful Eng. They make from these wonderful olotha a well-cut Man's Suit for only 85.06 Breechee for cycling, riding or walking for two dollars, or a pair of well-fitting, smartly-cut Trousers for 81.00, and if a holo appears within 6 morths, another garment is given absolutely free. See advertisement on page and write for advertisement on page and write for patterns, etc., to the firm's Toron Branch, 173 Huron Street, Toronto Out



April 2,

Care of I Bessie M. M.

Before takir brooder room prepare small green plot ab sprinkle the with coal oil sand. The co twice a week a

every week.
I dust the powder before coops and the

After the cl old I take the put them in co ing been first washed with li



English V Orpingtons, Whit what akin to the the Plymouth R in appearance.

cleaned out twic supplied with fr I start to kil they are two m them and they shape for killing keeping poultry roundings clean

Egg Circ

The Live Stock minion Departme all winter been proceed ampaign looking of circles for the ing of eggs. M Mr. Stuart, who cently, dropped i office for a chat, us something of movement. The work this winter organization in C in Lanark, two Victoria, three Victoria, three Leeds, and three Eastern township vince four circles ized and in Pe

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Care of Brooder Chickens

Bessie M. Main, Victoria C

Before taking my chicks from the Before taking my chicks from the brooder room at two weeks old, I prepare small coops for them on a green plot about 15 yards apart. I sprinkle the floors of these coops with coal oil and then cover with sand. The coops are cleaned out twice a week and fresh sand is put in every week.

I dust the hens well with insect powder before putting them in the coops and then give each hen 20 chickens. The hens are dusted every

After the chickens are five weeks old I take them from the hens and put them in colony houses, these hav-ing been first well dusted and white-washed with lime. The houses are

ently by farmers' clubs of one kind and another. A feature of the work is the changing attitude of local suckeepers towards the egg circles. Last night, for instance, we organized a circle at Reaboro in Victoria county, and a local merchant was appointed manager of the circle. Country merchants seem to favor the circle in that it gives them a chance to do when the circle in that it gives them a chance to do when the circle in that it gives them a chance to do when the circle in that it gives them a chance to do compared to the circle in the circle in that it gives them a chance to do different quality. The circle is the circle in the circ

-pay different prices for eggs of different quality."

In speaking of the results of the work, Mr. Stuart said: "The Live Stock Branch eets a report from the mager of each circle each week. The study of the state egg circles."
The work is still going on. Mr.

A Time

English Varieties of Fowl are becoming More Popular in Canada Orpingtons, White, Black and Buff the ones illustrated are the former) are some what akin to the more common White Wyandottes, being plumper and fuller than the Flymouth Rock. They are good layers, desirable market fowl and attractive in appearance. Classes for Orpingtons at our poultry shows now attract numer one entire than the constant of the co

roundings clean and free from ver-

Egg Circle Activity

The Live Stock Branch of the Dominion Department of Agriculture has all winter been prosecuting a vigorous campaign looking to the organization of circles for the cooperative marketing of eggs. Mr. J. C. Stuart has been the man in charge of this work. Mr. Stuart, when in Peterboro recently, dropped into Farm and Dairy office for a chat, and incidentally told us something of the success of the work this winter to date has been the movement. The total success of the work this winter to date has been the organization in Ontario of two circles organization in Ontario of two circles organization in Ontario of two circles asserts to work of the control of the cont The Live Stock Branch of the Do-

ized and in Fontiac county four circles,
"These circles," said Mr. Stuart,
"have all been organized through the instrumentality of the Live Stock Branch. A great many additional circles have been organized independ-

cleaned out twice a week and always supplied with fresh sand.

I start to kill the chickens when they are two months old. I take them out of the houses just as I find them and they are always in good shape for killing. The main thing in keeping poultry is to keep the surroundings clean and free from yerrepresentative of the Live Stock Branch has organized some 60 circles in Prince Edward Island. The merits of cooperative marketing of perish-able produce are always becoming better understood and appreciated.

Poultry Pointers

Good hens, like good cows, always

Good hens, like good cows, always pay their way.
Failures with poultry are often accounted for by foggy ideas of how much a hen should get to eat.
Some of us clean the roest beard each day and the nests each aix months. The first is alright; the second all wrong.
A handful of wood ashes in the drinking water tends to prevent roup. An open front house completely exterminates it.
When asked what were the two

When asked what were the two greatest detriments to poultry suc-

greatest detriments to poultry suc-cess, a prominent poultry editor re-plied, "Filth and vermin."

Keep the breed vou like best, at least until you have proved to your satisfaction that it cannot make good. The hen may be relied upon, but her son never sets.

Wet mashes are becoming a thing of the past. Dry mashes are easier prepared, easier fed and more rationally eaten.

Heaves AND HOW TO CURE

A Standard treatment with years success back of it to guarantee sults is Fleming's Tonic Heave Remedy

Use it on any case... No matter what else has beet tried... and if three boxes fail to releva, we will Refund full amount paid. Further details in Flemings's Vest Pocket Veterinary Adviser

Best Ever Used. Dear Sirg.—Furloand that \$1.00 for 1 package of tonic Heaviermenty. I used a package hat year and completely cured a case of Heaves of some 3 years at tanding.

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Per Box \$1.00.3 for \$2,00

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THREE CENTS A WORD, CASH WITH ORDER

FOR SALE-Dultaro Agricultural College strain of bredde-law Barred Rock Eggs 81.50 per 5. P. Hales, O. A. C., Guelph, Ont. P. Hales, O. A. C., Guelph, Ont. P. Rock, bred for years from O.A.C. and Macoland College bredde-law strains, \$1.55 for 15-W. P. Bell, R.B. D., Cherry Valley, Ont.

donald Counge of the Council of the

INDIAN RUNNERS

The true Pencilled Fawn and White English Standard Large white eggs from these ducks (they lay more eggs from hens). \$1.50 and \$2.00 per dozen. One Young Drake for sale.

AMERICA'S GREATEST LAYING STRAIN OF WHITE WYANDOTTES-Winners at the principal Egg-laying Competitions Hatching eggs, two, three lars per setting-Melcoed lars per setting-Melcoed Farm, Stoney Creek, Ont.

BARRED ROCK EGGS

From bred-to-lay stock. Price, \$2.00 per setting of 15 eggs, or \$3.60 for 2

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Order your baby chicks now from our splendid laying strain of SINGLE COMB WHITE LEGHORNS.

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You can build or remodel your stable yourself if you equip it with BT Galavaized Steel Cow Stalls, and accept the Barn Plan Service we offer. No board for days prefers to hire and board for days to be the work of the stronger barn. It will cost less to frame, yet have greater storage capacity and more accommodation for stock

BT STEEL STALLS EASY TO INSTALL

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Eggs from pure-bred B. P. Rocks of the O. A. C. bred-to-lay strain. None better. \$150 per 13. Orders taken now. R. R. 9 A. T. BROWN

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EGGS, BUTTER and POULTRY

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502- Bushels Potatoes

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WENTY DIFFERENT FARMERS in 20 different parts of New England competed the past year in growing potatoes. The crops were widely separated as to climatic and weather conditions. Each one planted, cultivated and took care of his crop in his own way; but all used

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The winning crop was 502.6 bushels. The average the twenty crops was 322.8 bushels. The average of the twenty crops was 322.8 bushels. of the twenty crops was 322.8 dushels. The average yield in New England is 131.6 bushels, and for the United States 89 bushels. Our crop-growing contests of the past four years have been so fairly and accurately conducted that they have been accepted everywhere as authentic. Henry Wallace, Editor of Wallace's Farmer, writes: "There is no guesswork about them."

Send for our Book of the Contest. Also tell us what your crops are, and your fertilizer requirements and we will send you our helpful book on Plant Food and our new Illustrated

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International Poultry Food

International Stock Food Co.



Beautify and Protect Your Property

Peerless Ornamental Fencing accomplishes two great purposes. It beautifies your premises by giving them that symmetrical, pleasing, orderly appearance, and it protects them by furnishing rigid, effective resistance against marauding animals, etc. Peerless Ornamental Fencing s made of strong, stiff, galvanized wire that will not is made of strong, stiff, galvanized wire that will not sag. In addition to galvanizing, every strand is given a coating of zinc enamel paint, thus forming the best possible insurance against rust. Peerless ornamental fence is made in several styles. It's easy to erect and holds its shape for years. Send for free catalog. If interes Sanwell Hoxie Wire Fence Co., Ltd. Winnipog, Man. - Hamilton, Ont

The Case for the Taxation of Railways

ANADA has contributed \$935,000, of railway in this country has been 000 towards the building of built.

Canadian railroads. Such was "Here are the figures: quate taxation of railways in Ontario. This plea was delivered when a deputation waited on the Government at the same time that the United Farmers of Ontario were in session in Toronto. It consisted of Messrs. G. R. Phelp, Holstein; A. M. Chap-man Clerk of Mexico G. K. Phelp, Holstein; A. M. Chap-man, Clerk of Hastings county, Belle-ville; A. F. Senecal, Prescott; John Douglas, Dundas; H. J. Pettypiece, Forest; Kenneth McKay, St. Thomas. Forest; Kenneth McKay, St. Inomas. After pointing out the burdens under which the farmer labors, Mr. Petty-piece asked, "What is the remedy?" and answered his own question as

The removal of unfair and inadequate transportation facilities, and the equalization of the burdens of taxation. The first can be dealt with elsewhere, but the matter of adjusting

elsewhere, but the matter of adjusting taxation is largely in your hands.

"The granting of our appeal to make railway property in this province bear its fair share of taxation with other property will do very much to solve this problem. That railway property should be, to the least extent, exempt from a fair share of taxation, is a blot on our boasted claim of government by the people into consideration, but he was not From the earnings of the people and able to promise radical changes during the present session.

.. \$217,800,000

minion and Provincial. 275,000,000
Land grants, 55,000,000
acres at \$5 per acre ... 275,000,000
Finished line given to
C.P.R. Co 37,000,000 Eastern section G.T.R. cost to date 130,200,000

"This is more than \$37,000 per mile for every mile of railway in the Dominion, a sum sufficient to meet the whole cost of construction.

"Outside of the land grants at least three-quarters three-quarters of this enormous amount of railway aid has been granted by Ontario, the cash subsidies mostly by the agricultural class, as has already been shown.

"All we now ask is that this great

Hydro-Electric Power on Ontario Farms

From Annual Report of the Ontario Hydro-Electric Power Commission

THE enterprise shown by farmers it can be mounted on a truck and and residents in small villages moved from place to place, arrange-has aided greatly our efforts dur-monts being made at the pump, in the past year to promote the use the yard, and in the barn, to connect rural districts of Ontario.

RUBAL BAYES

A rural distribution system for the use of farms and small villages has been commenced in 10 different townstream of the state of the s the rest of the township an oppor-tunity of seeing electric light and power in operation on the farm. Much city to the consumer and to the useful information has been gained township in billing, etc., the flat on these farms for determining the rate has obvious advantages, but any most suitable installation of motors form of limitator, fuse, or other de-and machinery for the average far-vice for keeping the consumer to his mer's use and in arriving at the pro-contracted load is more or less un-per system of charge for different satisfactors, expecially in districts and machinery for the average far-mer's use and in arriving at the pro-per system of charge for different

ELECTRICAL FARM EQUIPMENT The usual installation recommended for the average farmhouse consists of for the average farmhouse consists of a complete lighting system, using 25 less unknown and the cost of reading watt and 40 watt lamps, a 500 watt meters over a large area involves flat fron, and ometimes a vacuum considerable work for the township cleaner and electric stove, while in officials, who, as a rule, have not the cow stable, and the cows, about 12-cp. lamp to out work of this kind. every three cows, is usually recommended. Three or town 2c.p. lamps out work of this kind. The constant of the complete stable, while two in the hay mow, one where the connected load is considerable, while two in the hay mow, one where the connected load is considerable with the side of the constant of the contracted for, are most frequently employed. This to install a two-rate meter which will

satisfactory, especially in districts where motors are used to any extent.

A meter rate is difficult to determine in a large township as the load factor over the whole township is more or

in the silo, and one in the drive-shed ably above the load contracted for, are most frequently employed. This to install a two-rate meter which will installation with a good 100 c.p. register on one did the total number ample lighting for the farm.

A five horse-power motor is also used over and above the contract generally recommended for power amount. This motor may be used all the above methods are in use it can be fixed permanently in the barn townships served and in many places and made to run a line of shafting, or

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April 2,

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is allowed. The results are being watched carefully in these townships and, from data obtained, a standard schedule of rates for rural distribution will shortly be compiled.

LIGHTING THE ROADS

There has always been a very general demand for some form of road lighting in the rural districts, and although it is not necessary to have as much illumination as in towns and citios, lights are sometimes required as the roads and at such places as raised to the roads and at such places as roads, the roads and at such places as roads, or those districts where cost is of primar importance it is usual to install or not always to the roads and the roads and the roads are roads as roads, or those districts where cost is of primar in the road of the roads and the roads and the roads are roads as roads and the roads and the roads are roads and the roads are roads and the roads are roads and roads and roads are roads are roads are roads are roads and roads are r

every 1,000 feet. Estimates are now being prepared for a series of street lighting system along the main roads of Trought of Township and in North Norwich Township, the plan of placing lamps outside each farmer's gate is being dated with good success. adopted with good success.

SPECIAL EQUIPMENT

Amost important part of the elecprical equipment on the farm is the
water heater. This heater consists of
a galvanized iron tank, capable of
holding about 20 gallons of water,
surrounded by insulating material
and a wooden casing to reduce the
surrounded by insulating material
and a wooden casing to reduce the
tank. Most of the or musice of the
tank. Host of the or musice of
so that this heater provides a good
sue for their available current at
night. On going to bed the farmer
starts the heater and in the morning
has a good supply of boiling water in
the milk house for washing the milk
palls, cream separator parts, and
milking machine parts as well as for
making bran mash or other mixtures
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of the ness in the dairy.

Harness Items

J. L. Manning, Kings Co., N. S.

There is not much time before spring opens to overhaul, repair and oil harnesses if the work has not already been done. Harnesses cost already been done. Harnesses cost too much newadays to nogices them, and if this work has not already been done it had better been in measured to the done it had better be belied at home is the best oil that our grandmother new for that our grandmother new for the done is the best oil that provided that our grandmother had now is the best oil that provided in the large ware store or harness alone hard ware store or harness alone had outled the set of harness if the harness is cleaned properly before oiling.

My method of cleaning the harness is to unbuckle everything that will unbuckle. Wipe with a piece of cloth to remove dirt, greass and hair, then throw all the leather parts except the collars into a tub of warm water and soap and thoroughly wash and cleanse by hand. I then throughly dry and apply the oil slightly warm. too much newadays to neglect them,

warm.

Each part must be worked and reworked until it absorbs oil enough
that it will remain limber. Then
wipe off all superfluous oil with dry
rags. I finish by smoothing and
polishing with a good black harness
soap. This latter, however, is not
necessary to the longevity of the
harness.

Running water on the farm



A Fairbanks-Morse Pneumatic Water System like the

one pictured here, can be quickly and easily installed on any

It will furnish you with an abundance of running water for the bathroom, kitchen, laundry, stables, creamery, and for sprinkling the lawn and garden. At the same time it affords you ample protection from fire.

Can be inexpensively operated by hand, motor or small oil engine

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Fertilizer Experiments (Continued from last week)

Down east some large yields were obtained with potatoes, notably that of A. Hutchinson, South Esk Boom, N. B., whose plots yielded the following: Plot 1, 280 bush; Plot 2, 324 bush; an Little Bras D'Or. C.B. N.S. More with the second of the Down east some large yields were called over some neighbors to witness the harvesting of the remedier of the plot. When the plot was finally turned over and the tubers measured they found that the plot had yielded at the rate of 735 bush per acre, and there were very few small potatoes. Hoed crops generally respond readily to good applications of artificial fertilizers and are probably the most suitable crop to fertilize in an ordinary rotation. Mr. P. Prouk, St. Hugues, Que., obtained the following yields on enslage corn. Plot 1, 9 called over some neighbors to witness

yields on ensilage corn. Plot 1, 9 tons: Plot 2, 18, and Plot 3, 14 tons an acre. Plot 2 gave a profit of \$42.96 and Plot 3 a profit of \$22.85, after deducting cost of fertilizers. In parts and rol of a point of \$\phi_{\text{a}}\$ 2.5. after deducting cost of fertilizers. In parts of Ontario the season was far too dry to obtain good results in so far as high yields were concerned. Mr. J. G. McPharlin, Essex., Ontario, obtained 57 bush. from Plot 1, 75 bush. from Plot 2, and 49 bush. from Plot 2, and 49 bush. from Plot 3. The fertilized plot in each of these instances showed a substantial increase over the unfertilized plot. Remarkable results were obtained on mangels by Mr. C. D. Goyette, Cowansville, Que., his unfertilized plot yielded \$35% bush; Plot 2, "complete fertilizer," yielded 1,866 bush.; and Plot 3, without potash, \$40 bush, an are. Plot 2 showed the bush, an are. Plot 2 showed the

bush, an acre. Plot 2 showed the tremendous increase of 1,328½ bush, and acre, and a gain of \$253. Mr. John Riggs, of Merton, Ont., obtained the following results on

sugar beet mangels: Plot 1, 420 bush.; and Plot 2, 900 bush.; and Plot 3, 520 bush. Plot 2 showed a gain of 480 bush, over Plot 1, and a gain of \$37.50. Mr. T. W. Lamb, Walker-\$37.50. Mr. T. W. Lamb, Walker-ton, Ont., obtained 619 bush. from Plot 1, 866 from his complete fertilizer plot and 702 bush. from his plot without potash. Plot 2 showed a gain of 247 bush., and Plot 3 a gain of 83

Some of our experimenters choose grain crops for their experiments. Should the root crop, which is followed by grain have been fertilized, the residue left in the soil will in most cases be sufficient for the grain crop; cases be sufficient for the grain crop, for it must be remembered that the fertilizers are not used up in the first season and the effects are often seen up to the fourth year, and in some up to the fourth year, and in some instances even longer. Grain crops directly fertilized have to show a very large increase in order to satisfy some as to the undoubted profit from the

April 2, 1

use of fertil is best when root crop in "Doubting" will quote so ed from a di zer to the gr

Mr. R. Mo obtained the barley: Plot bush.; and I Mr. A. G. B Que., obtaine Plot I, and 5 Plot 1, and 5:
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Legislation u

Two bills are sideration of that are of p Canadian farme try Bill and th The most st

the one that it factories will n gister in future omitted in the n proved itself use the factories in been registered. those registered Matters o bers. been omitted fro will be dealt Stringent provi the protection o through the prev butter substitute

The cold stora Governor in Cou such regulations sary and expedie supervision of all houses. Such re respective article held in cold sto labelling of good Little opposition these bills. Some ade on the grou left for regulation

garine.

The Ontario Ag perimental Union duct 30 different grains, fodder or clovers and alfalfs prepared to distr high quality for poses in every tow Any person in Or any one of the ex and apply for the charge to each ap ormation may be sation to Prof. C. Guelph.

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set it on edge.

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k) ls were use of fertilizers; for this reason, it is best when possible, to fertilize the root crop in order to convince these "Doubting Thomases." However, I will quote some of the results obtained from a direct application of fertilizer to the grain crops.

ed from a direct application of terruizer to the grain crops.

Mr. R. McKright, Thornhill, Ont., obtained do following yields from barley: Plot 1, 32 bush.; Plot 2, 8 bush.; and Plot 3, 39 bush. an acre. Mr. A. G. Burrett, Stanbridge East, Que., obtained 35 bush foom Plot 2, and 50 bush. from Plot 2, and 50 bush. from Plot 2, and 50 bush. from Plot 2, and 32 bush. of cast from Plot 1, 61 bush. from Plot 2, and 44 bush. from Plot 2 and 44 bush. from Plot 2, and 44 bush. from Plot 2, and 44 bush. from Plot 3 Mr. A. G. Bernett of Rexboro, and the plot 3 bush.; are 1910 3, 65 bush.

hay. The plots showed a marked dif-ference, which can be seen a distance off, especially No. 2, to which the complete fertilizer was applied. This plot is thickest and six inches longer than the unfertilized plot. I have been telling my neighbors the plots were worth coming to see. Plot 2 showed an increase of nearly a ton to the acre more than Plot No. 1.

Legislation under Consideration

Two bills are now up for the consideration of the Dominion House that are of particular interest to Canadian farmers—the Dairy Indus-try Bill and the Cold Storage Bill.

try Bill and the Cold Storage Bill.

The most striking difference between the new dairy industry bill and
the one that it is replacing is that
factories will not be required to register in future. This provision is
omitted in the new bill because it has
proved itself useless. Less than half omitted in the new bill because it has proved itself useless. Less than half the factories in Canada have ever been registered, and only a few of been registered have used their numbers. Matters of marking also have been supported from the new bill, which will be dealt with by regulation. Stringent provisions are made for the protection of the dairy industry through the prevention of the sale of through the prevention of the sale of through the prevention of the sale of

The cold storage bill gives to the Governor in Conneil power to make such regulations as he deems necessary and expedient to provide for the supervision of all cold storage wareness. Such regulations may governess. Such regulations may governess to length of time during which below the such that the such such that the such such that the such such as the such such as the such The cold storage bill gives to the left for regulation as need arises.

The Ontario Agricultural and Ex-perimental Union will this year con-duct 30 different experiments with auct 30 different experiments with prains, fodder crops, roots, grasses, clovers and alfalfas. The Union is graphically for experimental pur-poses in every township of Ontario, Any person in Ontario may choose any one of the experiments for 1914 any one of the experiments for 1914 any one of the experiments for 1914 and apply for the same. All material will be furnished entirely free of charge to each applicant. Full information may be obtained on application to Prof. C. A. Zavitz, O.A.C., Guelph. Guelph

We believe in the because we believe that the next great development in agriculture will be along the line of cooperation for reater efficiency in production and n marketing.



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low-if you would economize on paint, you must look beyond the purchase price per gallon.

The cheapest paint for you to use is the paint that takes the least amount for the job. It may cost a little more per gallon, but because it thoroughly covers more surface, wears better and stays bright longer, it is the most economical in the long run.

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"The Paint for wear and weather", is absolutely the cheapest paint to use, because it goes farthest, and endures longest.

"100% Pure" Paint has a covering capacity of 900 sq. ft. of surface one coat, per gailon, as against a covering capacity of hand-mixed-byguess lead and oil paint of only 500 to 550 sq. ft. of surface, per gallon, or the lower priced Prepared Paint with a covering capacity of not more than 600 sq. ft. of surface per gallon.

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The Value of Crops

T is not so much the volume of a crop that counts as its value. Small crops sometimes yield greater return to farmers than do large crops. In the state of Iowa in 1913, for instance, the corn crop was 90,000,000 bushels less than in the previous year, and yet it netted the farmers of Iowa over \$40,000,000 more than did the larger crop. In the same state the oat crop was 40,000,-000 bushels less than in 1912, yet it was worth \$200,000 more. Thus the Iowa farmer found himself with more money and less work, because he had been able to market his crop under better conditions.

These are not unusual instances. Every fruit farmer in Canada can recall seasons when big crops have been accompanied by such low prices that much of the fruit rotted on the ground. On several occasions big potato crops have been accompanied by prices that hardly paid for the marketing, and so on down the list. Big crops cause uncertainty. Farmers are more ready to sell than speculators are to buy, and consequently prices are reduced below normal.

The remedy is better marketing conditions. The farmer must have more say in the marketing of his own crop and the speculator less. We need more cooperative enterprise.

The New Cooperative Company

NTARIO farmers have taken a long step toward the ideal system of marketing. In The United Farmers Cooperative Co., Ltd., they have an organization through which all their marketing organizations may be co-ordinated. Instead of each man or each association being his own market man as in the past and, therefore, more or less at the mercy of speculators, through the central organization business men who are specialists in their line will attend to the marketing. Farm marketing will be given all the advantages that go with business on a large scale. The trade with the farmers' organizations

of the west, conducted without the intervention of middlemen, should of itself be a source of large profit to Ontario fruit men and dairymer. In time, consumers' organizations in our cities may be formed to meet the farmers' company half way.

This new company has had a most promising start. Ten thousand Ontario farmers were represented by the delegates who gathered in Toronto two weeks ago. All displayed the greatest confidence in the future of the organization. Members of the new organization, however, should guard against over-confidence. There is sure to be opposition and strenuous opposition to the new company. Members will have many temptations to sacrifice future good for present gain. Those who are wise will back the new company with their influence and their patronage in spite of all other inducements held out to them. Who knows but what the organization of this company may presage the day when the farmers of all Canada will be united to guard their own interests and ensure the square deal for all classes of the community?

Soil Fertility First

FTER all, isn't the proper management of the soil the basic factor in good farming? Attractive buildings, good fences and hard roads, yes even good stock, are all secondary to this underlying principle. We are newly awakening to a realization of this fact and the increasing demand for dairy products, beef, pork, and mutton is all in harmony with the newly inaugurated movement for the conservation of soil fertility.

In the past we Canadians have wasted our soil fertility in a manner that would appeal to the farmers of older lands as both extravagant and sinful. So prodigal have we been with the richness of the soil that the time has now come when thousands of farmers are being forced to change their method of farming because Mother Nature has closed down on them until that which has been taken from the soil is, in some measure at least, returned. This fertility can best be returned by feeding all the raw material produced on the farm to farm stock and carrying the carefully conserved manure back to the land. The great need of many farmers is more corn and roots, more clover and cows and less grain and hay for sale. The good dairy farmer is the best soil conservationist.

Cold Storage Regulation

THE cold storage warehouse men are no longer to run their business as they see fit. The Government proposes to have a hand in the matter. A bill is even now before the House of Commons which will give a commission large powers in the regulation of the cold storage business.

No one now questions the important place held in our system of distribution by the cold storage warehouse. Only by the instrumentality of cold storage is it possible to keep prices for perishable food products at a reasonable level during the season of production and at a price which is within the reach of ordinary folks when production is at a standstill. For instance, were it not for the cold storage warehouses in Canada, butter and eggs would be a glut on the market at certain seasons and luxuries for the rich at certain other seasons.

At the same time, the cold storage system is capable of abuse, and has been abused. There are cases on record where eggs have been held in cold storage for three years and meats until they were not fit for human consumption. The object of the bill before the House of Commons is to do away with these abuses and give to the cold storage system its maximum of usefulness. This bill should, and probably will, be made law.

Crop Rotation

N the past few years Farm and Dairy has conducted several Prize Farms Competitions. It was notable that every successful competitor in the two provinces of Ontario and Quebec followed some definite system of crop rotation. Only two farmers of all those who entered our competitions did not have a distinct rotation, and their farms were not even good enough to be considered for a prize. District representatives of the Ontario Department of Agriculture have told us that if they were to select a score of the best farmers in their counties, they would find that every one of them followed a crop rotation

These facts are sufficient proof of the merits of a crop rotation. Even without such evidence, however, an incontrovertible argument could be put forward for a crop rotation merely on the grounds of its reasonableness. A short crop rotation allows of clover seeding every few years, which adds to the fertility of the soil. A change of the crops is good for the soil because different crops have different food requirements, whereas one crop tends to exhaust certain constituents of the soil while leaving it rich in others; likewise different crops feed at different depths. It is also believed that the roots of some plants exude toxic poisons, which in a short time make the soil unsuitable for that particular crop if grown on the same land year after year. A crop rotation that includes a good percentage of hoe crop makes weed elimination possible and the application of stable manure where it will do the most good.

These are only a few of the reasons why regular crop rotation should be followed on every farm. There is no farm so irregular that it cannot be worked to advantage under a crop rotation. There is no method of producing maximum cops that does not include the regular short rotation.

Homemaker or Housekeeper

S HE was the best housekeeper in the whole neighborhood. All of her neighbors admitted it. They said that they had never dropped in on Mrs. Blank when the house was not spick and span from kitchen to parlor. Her own family admitted it. One of her sons expressed it thus: "Yes, ma's a great housekeeper. She makes us eat in the kitchen and sleep in the garret to keep the rest of the house lookin' fine for company.

This example illustrates the difference between the housekeeper and the homemaker. In the house of the homemaker there are no chairs which father is afraid to sit down on for fear of disarranging the "tidy" on the back. There are no special rooms which the boys enter with fear and trembling and on their good behaviour. The whole home is for the benefit of the whole family. The housekeeper gets much praise from the outside. The homemaker gets her praise and gratitude from the inside. Which is preferable?

Farm Furrows

Blacksmith bills are cheaper than horse flesh a well shod horse is always the more economical

Other conditions being equal the early seeded grain crop will give the heaviest yield. To determine just how far we may go in neglecting the preparation of the seed bed in order to get the seed in early is one of the finest points in crop management.

One could well afford to spend a few hours with the file and grindstone one of these days The disc harrow does better work if the discs have been sharpened. The same is true of the spring tooth cultivator, the scuffler, and even the common drag harrows.

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Problems of the Rural School and Church

Chas. Andrews, York Co., Ont.

THE Scarboro Farmers, Club met the direction of this immature peron Wednesday, the 18th ult., to son of whose principles of conduct the
discuss the rural school situation. The topics were of a general That things reas well with us as
interest to all who have the welfare they are in the respect is due to good
of the school children at heart. This fortune rather than to the good judgof the sensor emitted at neart. This fortune rather it club has no special grievance; its aim ment of parents. is to got the expression of the minds of the farmers themselves regarding the defects of the present school gaystem, and by frank discussion seek. It may be rolled the sensor that the second section of the second section section of the second section of the second section of the second section of the second section sect means of improving what is good in what we have at the present time and to plan for removing the disabili-ties under which the rural people

labor.

To be perfectly frank, the rural schools of the province are not meeting the situation as they should. For one thing, the teachers are not the experienced men or women that their high position calls for. In too many

not measure up to our "Absolute Guarantee" standard of reliability.

THE APPOINTMENT OF INSPECTORS

THE APPOINTMENT OF INSPECTORS

It may be relied that these teachers are kept right by the inspectors. But who are our inspectors but men who are chosen largely from the ranks of high school teachers and by a vote of high school teachers and high school teachers are not relied to the country council in the own they have the power of securing the vote of the country council. The average country council is no more qualified to judge of the qualifications of a public school public school the merits of deciding upon the merits of deciding upon the merits of high position calls for. In too many cases a mere girl or boy is given the able of deciding upon the merits of work that tasks the resources of the amost matured man or woman. For the caprice of the moment, and, most five days in the week, for seven hours life day children, at the most plastic period of their lives, are under the period of their lives, are under the period of their lives, are under the head of the educational affairs of the head of the educational affairs of a country. A more stupid method CCXXXIII

Justice to the Reader

Do you realize what it costs us to guarantee our advertisers to the readers of Farm and Dairy?

Two years ago we kept a careful rote of all the advertising we were historiced to turn down in that it did not measure up to our "Absolute Guarantee" standard of reflability.

THE COUNTRY CHURCH Another weeten and the people for the peop

or measure up to our "Absolute Guarantee" standard of reliability. Another meeting that is almost as You will be surprised indeed to know significant is the approaching meeting. The surprised indeed to know significant is the approaching meeting that an our commercial advertise. College, Toronto. At this meeting, During the past year this has decreased steadily. Our reason for this the city, a great part of the time clients pay best and that the account will be deroted to the discussion of a "shady" advertiser usually reof a "shady" advertiser usually reof the trural church. Too from the rural church is conspicuous During the past year this has dereased steadily. Our reason for this is that our agencies find that honest clients pay best and that he account the state of the

What a DE LAVAI

CREAM SEPARATOR SAVES

over any other separator or creaming system

QUANTITY of cream that no other separator will recover completely, particularly under the harder conditions of every day use.

QUALITY of cream as evidenced by De Laval butter always scoring highest in every important contest.

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TIME by hours over any gravity system, and as well over any other separator by reason of greater capacity and the same reasons that save

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begin with it will last from ten to twenty years while other separators wear out and require to be replaced in from one to five years.

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E that places himself neither higher nor lower than he ought to do exercises the truest humility .-Colton

Stirring Up Ann

(Farm and Fireside) By NINA PURDY MACDONALD

HAD just finished doing my dinner dishes when I looked out of the window and saw the Higginses' grey horse coming up the road on a good, swift trot. Mandy was driving. good, swift trot. Mandy was uriving. She sat well forward on the wagon seat, a rigid figure, with her arms straight out high above her lap, hold-ing the reins tightly. Her hat was straight our nigh above her lap, holding the reins tightly. Her hat was a little on one side, and stray rings of hair hung carelessly around her face. I saw from these signs that she must have some mighty important plan in her head.

When I came to live in Gregor When I came to live in Gregory Hollow a few years before, I shought I was going to bury myself alive, I had always lived in a large town. Then my aunt died and left my uncle alone in his old age, with a farm to manage. As my husband was dead and my son married, I decided it was my duty to take care of my uncle and to put up with the lonesomeness and to put up with the lonesomeness and narrowness of the back-country life for his sake. But that was before I knew Mandy Higxins, and before I knew about the Neighborhood Improvement Society.

Gregory Hollow is a little creek valley nestled between two ranges of the Catskills. In it there are some twenty-odd farms with their meadow.

the Catskills. In it there are some twenty-odd farms with their meadow lands in the valley and their pastures running far back into the hills. The head of the hollow is about six miles from its foot, where there is a little village which is the centre of trade and amusement for all the surround-

ing hollows.

Mandy Higgins was the wife of a well-to-do farmer. She lived pretty well down to the foot of the hollow. She was the president of the Neighborhood Improvement Society, which she had organized with the purpose of the property making things better for women. I hadn't lived there long before I decided that life everywhere is the cided that life everywhere is the same; its main object is to keep to-ward a higher standard, to set a higher standard for folks, and to help them live up to it. So, instead of sitting back and mourring because I wasn't in the swim and jostle of a large town life, I joined the Neighborhood Improvement Society, and

borhood Improvement Society, and aimed to help Mandy Higgins in her work in that hollow. My uncle took her horse, which was streaked with perspiration, and Mandy came hurrying into the house, her eyes shining and her manner

eager.
"Well," said I, smiling, as I got a chair for her and sat down with some berries to hull, "whom are you going to improve this time?"

She took one of my aprons from its nail behind the door and began to help me hull.

"I am going to keep Ann Simmons from being an old maid," she said quickly; then she began to laugh as she saw the surprised expression on my face

Ann Simmons lived two miles far-

It Fireside?

If MACDONALD

There up the hollow from me. About two years ago her father and mother had died within three weeks of each other. Ann, being the youngest of the family, had spent her forty-odd years of life caring for her parents, mothering them and humoring their whims. And now, since they had gone, she had nothing to do but tend her cats and dogs and chickens, and her home. She lived in a spotless little house, all white save for its nature, and I am not going to let HAD just finished doing my dinner ther up the hollow from me.

to do. It's because they keep up with the times and what is being done around them. A single woman doesn't have to be an old maid. Lots of marnave to be an old maid. Lots of mar-ried women who haven't much to think of except their own little ways and whims get to be the old-maid kind, too."

"Well,' I said, "Ann has had enough to do with caring for old folks and running the place. She needs

a rest."

"Yes," Mandy agreed, "she has had enough to do; that isn't it. It's what she hasn't got to do now. She keeps herself shut in at home, eats, works, knits, and cleans up her house, all at a set time every day. And look at the difference two years have made in her. She has got into a rut and needs stirring up."

"Do you mean to stir her up by

The First Home in a New Country... A Daukhbor Cottage in the Canadian West

dark green blinds. The inside of the house was painted white, too. Ann had her own paint brushes and cans had her own paint brushes and cans of paint, and as soon as a spot got the least speck dirty she would paint it over. She had always been a care-ful housekeeper, and since her folks had died she tended her house as if it were a live thing. Since she had a comfortable income she had no financial worries. Her brothers had stied to get her to live around among a comiortance income and a coming and a coming and a coming and tried to get her to live around among them for a while. But she decided that everything about the house would go to rack and ruin without her, and that she was better off in her own home. Her trouble had sort of soured her. She wouldn't visit among her neighbors: she stopped going to church; and, what hurt us women most of all, she wouldn't join our Improvement Society. When Mandy said she was going to keep Ann from being an old maid I snorted.

keep Ann 1990.
snorted.
"Where do you suppose you will
find a man for her?" I asked. "You
know she has never looked at one,
and that she is not the taking kind
among them. You had—"
"Wait," Mandy's tone was commanding and I stopped. She went
on: "Ann doesn't have to have a man
on: "Ann doesn't have to have a man
in order not to be an old maid. Lots in order not to be an old maid. Lots of women to-day aren't married and never will be, but you can't call them old maids. That's because they have real interests in life and real things

anyone into it except you and David. have to get David to help."
Her son, David, was a doctor in a

neighboring city. Mandy went on. "We can't trust

Mandy went on. "We can't trust all the members of the Improvement Society to keep it a secret." I made sure that my uncle and the hired man were out of hearing, and shut the outside door. Then she told me.

"Seems to me we shall be tackling "Seems to me we shall be tackling a pretty ticklish problem," I said, thoughtfully, after she had finished; but all the time I was eager to get at it. "It will take a lot of careful managing. Do you s'pose we are equal to it."

Mandy smilde confidently. "Don't management of the control of t

you worry. There is something in-side of us women that makes us understand in a minute how to do things that a man has to ponder on

and then usually blunders over.

"I want to write the letter to David here," she said, "for I don't want his father to suspect a word about it. You know John is always want his date about it. You know John is always teasing me about my Improvement business, and he might say something of this before folks. You never can tell what a man will do. Besides, he Besides, would be mighty curious; and the fewer who know this plan the better

I agreed, and got her a pen and ink nd some paper. When she had finished she let me

read the letter, and I decided that she read the letter, and I decided that she had hit upon just the right plan to take Ann out of her rut. She left the letter with me to mail, as I had to go to town in the morning to do

go to town in the morning to do some trading.

After she had gone I sat thinking over what she had written about Ann being a motherless woman and not having anything to mother now except some animals and a little white house. And one line of her letter stood out, the one where she said that the cause of many of life's troubles is that lots of mothers are not mo-thering women and lots of mothering women are not mothers. Poor Ann women are not mothers. Poor Ann was getting into a narrow way of liv-ing just because she didn't have any-thing worth while to mother. When I thought how Mandy, a mothering woman, was undertaking to help Ann I remembered the old saying that God had made mothers, because He couldr't be everywhere Himself, and I rejoiced in it.

Next morning I took the letter down to the post office when I went to do my trading. Mandy called me up on the telephone before I started, so as to make sure I wouldn't forget to

ail it.

I stopped at her place a few mintes on my way home. When I got near the house I could hear her singing, high and strong and sweet, going from one song to another as she went from one piece of work to ano-ther. She met me at the door. Her face was flushed and there was flour face was flushed and there was flour on her arms and nose, and I knew that her mind wasn't on her house-work but on improving Ann, and that he was endeavoring to control her excitement until she could hear from

excitement until she could hear from Cavid.

"When do you s'pose we shall hear?" she said to me.

"Like as not in two or three days, or it may be a week or two," I answered truthfully; then, as I saw her fall. I sucgested, "Why can't saw her she had been something the some sewing or something while "some sewing or something while "some sewing or to town with me this afternoon? We'll pick out some stuff to sew on, and to-morrow we will make something for Ann's improvement;" she laughed happily at the thought.

The next day she came up to sew with me. We worked until late in the afternoon. We talked low and quietly when we handled the soft, pretty things, and I felt as I think a man must when he takes off his hat als Decoration Day service. It seemat a Decoration Day service. It seemed there was something sacred in the shade-drawn parlor with the dainty sewing, speaking of improving and loving, and we carnest-working woloving, and we carnest-working women trying to make things better, and
doing that trying, not in a man's
way, as so many like to think women's aim is, but in a woman's.
As we came out of the parlor the
telephone rang. It was Mandy's ring.
Knowing there wasn't anyone in her
house ahe answered it.

house, she answered it. It was the station agent, and he had a telegram for her. It read: "All O.K. 10.30 to-night.—D.H."

It happened fortunately that it was lodge night, and both John and my uncle were going. The hired men

uncle were going. The hired men were going to a dance.

Mandy went home and got supper for the men. Then, after they had all gone, she hitched up the horse and drove up to my house. We took a short cut over the hills to the milk station. David got off the ten-thirty station. train, and since my house was nearer Ann's we drove back there.

As soon as we got inside and I had shut the door Mandy opened the basket David had been carrying. In it was a fat, red, wrinkled boy, sleeping contentedly in his cotton-lined

David explained that it was only (Continued on page 20)

**** The *****

April 2.

Goodness One of th ible of the Service Cor Professor Gi The central dress was the good in perthe Church. think of call have the Ch He gave one illustration of

ed in a mine up" on acco within it. (tinguished, s them out, as was also put One old ma one, suggesti of their pre man declared

the strongest lieved in the it be given to Sitting ther someone aske No one could led, while the

**************** The Upward Look ************* Goodness Outside the Church

One of the most earnest and force one of the most earnest and forcible of the speakers at the Social Service Congress held recently was Professor Graham Taylor, of Chicago. The central theme of his evening address was that all must recognize the good in people that are outside of the Church. Many who would never

the Church. Many who would never think of calling themselves within them. The same the Christ-likeness within them. The same the christ-likeness within them. The same the same them the same th

coal damp that was putting them out as leaves the coal damp that was putting them out also putting out life.

With the Household Editor

If there is one task above all this one on the days that the begiven some one, suggesting that he be given some one, suggesting that he be given some one, suggesting that he be given some one accuracy of their precious water, one brute man declared it ought to be kept for the strongest. But another, who bethe strongest. But another, who bethe strongest. But another, who bein winter. This is not such a dreadthat light of might, insisted that a draw of the line of the strongest of the st

"Abide with me, fast falls the eventide; the dependence of the factors of the fac

meals, when garments out of reputer are repaired, or when solided lines is made clean. From the constandpoint a family is an enterprise of two departments, each contributing its share toward the family income. The head of the family is the wage-carner. But—the home-making woman is also an earner and the business manager of the housekeeping department. Wage-earner and home-maker together produce the family income, together support the family.



Peep again in your oven. See those loaves, those pleasing loaves you've made.

How fat-rounded-substantial. No, they wont fall when colder.

Because the Manitoba strength that is in FIVE ROSES will hold them up till eaten.

This sturdy elastic gluten has kept them from dropping flat in the oven.

No unsightly holes 'twixt crust and crumbnever.

All risen evenly-to stay risen. Never heavy-sodden-soggy indigestible. Yours are the FIVE ROSES loaves-Crinkly and appetizing of crust. Golden brown and tender. Snowy of crumb - light as thistledown,

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Not Bleached



Not Blended

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of your methods of drainage and tillage and of your growing crops-with and without fertilizers. Such a record will enable you to study and improve the conditions governing their growth and will help you to better profits next year.

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cknewledged to the finest crea-n of Water-tof Collars or made. Ask see, and buy other. All stores or direct

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HAWK BICYCLES \$22.50 FREE 1914 Catalogue,

T. W. BOYD & SON,

Stirring Up Ann (Continued from page 18)

Continues from page 107 three weeks old, and that its mother who was a waif of the streets, had died in the hospital that morning. He had made inquiries, but there was none to claim the baby. And when he received his mother's letter he decided that he had Ann's improvement all ready.

"But what if she won't take it, mother?" he asked anxiously. other?" he asked anxiously.
Mandy, who was fondling the
aby's fat, pink toes, looked up condently. "She will, David; she just

fidently can't help it.'

Mandy folded the little clothes Mandy folded the little clothes which we had made, and put them into the basket beside the baby, and I wrote a note in fancy writing and pinned it to the little blanket. It read: "I know you are a good woman. Please care for my baby as your own, for I cannot, and I have no people with whom I can leave him."

We were going up to Ann's with it then, but Mandy stopped long enough to put in a bottle that used to be David's.

"Probably Ann won't have any in the house," she explained, smiling. Finally we started. David left us Finally we started. Favid left us when we got about half-way, and went cross-lots over the hill to the station. We drove up under the trees below the house, and Mandy stole up below the nouse, and Mandy stole up to the porch quietly and carefully with the basket while I held the horse. She set it down just outside the door. Then she came back to the wagon, and we waited.

and we waited.

We could look through the windows into Ann's kitchen. The nickel of the range and the tea kettle gleamed white in the lamplight, the table oil-cloth shone like a mirror, and even more shone the glossy whiteness et the woodwork. Ann came out into the kitchen from the dining-room and got her spectacles from off the clock shelf. She put them on and were shaded to the control of the clock shelf. She put them on and went around She put them on and went around the room looking long and closely at the paint. When she got to the board above the sink she shook her head, then went out into the woodshed. In a few minutes she came back with some paint brushes which she put into some purposition to soften and we some turpentine to soften, and we come what she intended to do the

knew what she intended to do the first thing in the morning. In about twenty minutes the baby began to cry-a little, tiny cry at first, then loudly and lustily. Ann came to the door and leaned forward, the state of the door and leaned forward. came to the door and leaned forward, peering out into the darkness. Then the baby gave a louder yell. She jumped back. "Great Everlasting!" she exclaimed, caught up the based and ran to the light. Mandy the house hearn to naw and spart annual to the second to the seco began to paw and snort, as didn't dare. So we hustled off. and we

didn't dare. So we hustieu on.

Next morning I was doing my
breakfast dishes when Tim Gray, a
lad that draws milk for the farmers
living in the head of the hollow,
something on the search of the house
and heagan to call. I hurried out to and began to call. I hurried out to see what he wanted. He told me that see what he wanted. He told me that Ann Simmons had come running out to the wagon when he was driving past her place. She wanted him to stop and tell me to be ready to come up to her house with Mandy. People always sent for Mandy whet they always sent for Mandy when they were in trouble or when anything unusual happened, and since I had been so intimate with her they had been sending for me, too. Tim such that Ann did not seem like herself—she talked so fast, and her hair wasn't

stead of being slicked down close to stead of pening shoked down close to her head, was put up carelessly. Her dress was turned down at the throat and her sleeves were rolled up above the elbows.

"Mandy," she said, half crying, "Mandy, someone has sent me a baby.

aby."
"A baby!" Mandy exclaimed, in a urprised tone. "Who—what do you surprised tone.

We went into the house then. There in the old-fashioned cradle in which all the little Simmonses had been rocked lay the baby, tucked in under little piecework quilt, blinking and cooing

"Who sent it, Ann?" I asked.
"I don't know, Jule. Here's the
note that was in the basket.' She
handed it to me and began telling
me how she heard the baby cry the night before.
"But—" and as I listened I kne

for a certainty that Mandy was right when she said a woman knew how to do things. "But, Ann," said Mando things. But, Ann," said Man-dy, "are you going to keep it? You don't know anything about its folks, and after working hard all your life it's time you took a rest. It will be

it's time you took a rest. It will be quite a task to bring up that boy."

"Am I going to keep it. Mandy Higgins!" Ann cried excitedly, an expression of outraged surprise spreading over her face. "Of course I am going to Dideb." pression of outraged surprise spread-ing over her face. "Of course I am going to. Didn't its mother give it to me, and doesn't it smother give it to me, and doesn't it smit at me al-ready? And, Mandy." she continued, "don't I need something to work for same as you other women? I haven't known what to do with myself since Pa and Ma died. I haven't wanted to go out without to go out with you other women beto go out with you other women be-cause I hadn't anything real to do as you had. I wasn't needed anywhere: but now I know I am, and that God out now I know I am, and that God sent this little fellow because I need him and he needs me." She stopped with a sob. We put our arms around her and all cried together, which is characteristic of women.

After we got calm Mandy said, "These aren't enough clothes for him."

"No, I s'pose not," Ann agreed.
"How would you like to have the
Improvement Society come up to-

Improvement Society come up to-to-morrow afternoon and make some for him?" afternoon and make some for him?" afternoon wild?" said Ann anxiously. "You know I wouldn't join you a spell back." "Shucks! They will be glad to. Why don't you join now?" asked

Mandy.

"Oh, do von think they would have me? It didn't seem any use to join when I felt seem to ward felks, but somehow this little photoly makes me feel different toward up hoody. That day on the way be want when I though the way to be an old maid now, and I set rejoicing when I though that we women were able to make this hollow a happing nales. a happier place. . . .

Keeping Smoked Meats

By Andrew Boss

During moderate weather, smoked meat may be left in the smoke-house for some time. The house should be kept perfectly dark, and well enough ventilated to prevent dampness. dry cool cellar or attic, with free cir-culation, will be a satisfactory place for smoked meats at all seasons, if it is kept dark and the flies are excluded

If to be held only a short time, hams and bacon will need only to be combed.

I hurried to get my work done and hung out separatelv. without coverwas ready by the time Mandy stoping For longer keeping, it will be ped for me. When we drove up in necessary to wrap them first in waxning out on to the porch to meet us. or muslin. and to hang them in burlap, canvas She looked more like the capable, we can be can be

THIS MUST

April 2,

A MAN tried to the was a fine ter with it. I know anythin

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Von folks, ur life will be boy." Mandy

THIS WASHER MUST PAY FOR ITSELF.

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A book rosk and English. Game A book rosk and English. A book rosk and English. Game Lawr rosk and surface and where to irse, but and trays to use, and many other valuable facts concerning the many other valuable facts concerning the many other valuable facts concerning the many of the construction of the

Value of an Ideal in Home and Community Alice A. Ferguson, York Co., Ont.

My ideas on the value of an ideal to My ideas on the value or an ideal to the individual, appeared in a recent is-sue of Farm and Dairy. What an ideal does for the person it does for the home. You picture what you wish your home atmosphere to be and that your nome atmosphere to be and that very purpose will help to keep down many unpleasant words or acts, and will help to keep a clear and sunny at-mosphere. Good feeling grows in a

mosphere. Good feeling grows in a sunny atmosphere, but dies in the chill and mist of unpleasantness. Then an ideal is necessary if we wish to improve our surroundings. In our minds we picture how we want our home furnished, or our lawns our home furnished, or our lawns laid out, or our garden planted. And we plan and work to bring about that purpose. Having ideals before us will keep us out of ruts. and will view zeet. keep us out of ruts, and will give zest

to lire.

What ideals will do for the individual and for the home they will do for the community. The community is the sum total of the life of our homes. the sum total of the life of our homes. The home training shows when people congregate. We desire the life of our surroundings to be peacable, helpful, kindly and progressive. We want it to be the cleaness of the want it to be the cleaness of the very high the very thing that will add in bringing about this result. All that is base and vulgar we disdain, and strive to bring, about the reign of righteousness,

HAVE PURPOSE IN LIFE

People long married, who are happy, are often said to become more like each other in character and even in each other in character and even in physical features. We grow like that which we love. The Christian who takes as his pattern the Lord Jesus, grows like Him. We would not at-tempt to cut out a garment without cithes a pattern or some picture in our either a pattern or some picture in our either a pattern of some picture in our mind as to how we wanted it to look when we finished it. So we should not attempt to live a life without some formal purpose.

mal purpose.

Having a purpose puts iron in the blood, starch in the backbone, and the light of a living energy in the eye. It sweeps the cobwebs from the brain, sluggishness from the liver, and chases many imps of darkness from the hast. from the heart.

from the heart.

Many of our foremost men have
attained the positions they hold because of the high purpose formed in
youth. By all means have the ambition fired by having and holding before the mind some high resolve, a
wising value to be reached by presistent. fore the mind some nigh resolve, a vision only to be reached by persistent climbing. Then only do we reach the best of manhood and womanhood.

A Shiny Skirt.—One of the many problems of the woman in the matter of dress is that of the skirt that has acquired shine through wear. Oftentines a skirt is perfectly good except of the wery noticeable gloss is capt of the wery noticeable gloss in the work of the were several methods which is the work of the work A Shiny Skirt .- One of the many method is to rub with a bit of flannel dipped in turpentine, or sponge with a solution of common washing blue and water; press while still damp under a thin cloth.

. . . The sunny smile is more than money in the bank. It makes friends that coin cannot buy. You may be shy on the long green, so develop a big smile, just for the sake of having a little business capital.

WANTED

Five Hundred Answers are wanted to this advertisement.

I want every boy and girl who reads this announcement to fill in the coupon below and send it to me immediately.

WHY?

Because I have a number of fine English Imported Bicycles that I am going to give away free to some of the energetic boys and girls who send me a coupon.



Ladies' the same except in the frame.

Finish-Black and Striped. Rims-Dunlop. Chain-Roller, % inch .

Pedals-Solid Rubber. Handle Bars-Perfection. Tool Bag-Tools and Pump. Mud Guards-Black and Striped

These are perfect bicycles and they are something that most boys and girls have been most anxious to get for a long time.

Now you have this splendid chance to get one absolutely free. If I were you I would not let it get away. I would fill in this coupon to-night and send it right along, so you will get full particulars by return mail.

Be Independent—Own a Bicycle

FILL IN THIS COUPON

CIRCULATION MANAGER. FARM AND DAIRY,

PETERBORO,-

Dear Sir,-I would like very much to get a bicycle, and I would like to get it free. Please send me full particulars by return mail.

serviceable school

dress could be featured from this

design of dark

olive green cheviot, with trimming of red. For more

dressy wear black velvet with trim-

ming of some

lighter material would be very at-tractive. The dress is closed at the

side under the pleat. Four sizes: 4, 6, 8, 10 yrs.

dress was featured

in brown serge, with a girdle and tie of plaid silk. A jaunty collar finishes the neck edge. The sleeve is joined to the

drop shoulder and is finished with a

neat cuff. Four sizes: 6, 8, 10 and

a new and stylish model of lady's shirt waist. The

shirt waist. The

popular, as it is one of the most

convenient and

necessary parts of the woman's ward-

robe. In this de-sign the collar may be rolled open at the throat

or closed high. The sleeve may be

fin is hed with a simple band or with the pointed cuff added. Seven sizes: 32 to 44

inches bust mea-

In 9831 we show

charmeuse

e fabrics may used for de-

the new popular three-tunic skirt

12 years. No. 9834 shows

Another good

Get More Cream

The fine bearings on a cream separator need the best of oil.

Separators lubricated with STANDARD

Hand Separator Oil give perfect results, without noise

Uniform in quality. Never gums or corrodes. Feeds into finest bearings. Lengthens the life of your separator

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Winnipeg Edmonton Vancouver Toronto Montreal



95 AND AMERICAN

CREAM WANTED consumes daily the milk and rom over 14,000 cows and the rom over 70,000 cows. We need

Toronto Creamery Co., Ltd. 15 Church St., TORONTO

OR SALE — First-class Dairy Farm, 188 acres. Owned by the late Wm. Shunk York county. 10 miles from Toronto Apply Nelson S. Shunk, 129 Shuter St.

WE Make Butter WE Furnish Cans WE Pay Every Two Weeks

Write us

AMERICAN SEPARATOR CO. BAINBRIDGE N. Y

BELLEVILLE CREAMERY, LTD. Belleville, Ontario

International Harvester Cream Separators



combination, Peg and Spring-Tooth, and Disk Harrows GENERAL LINE and Gas Engines

DAIRY farmer who does not use A DAIRY farmer will does not a cream separator is losing up to

a cream separator is losing up to \$15 per cow per year. Complete your dairy equipment by the purchase of an International Harvester cream separator—Lily, Bluebell or Dairymaid. These "sparators skim closely—leaving barely a drop of cream in a gallon of milk—and they will do it for years.

These machines are furnished with pulleys for the use of power. Belted to a small I HC engine, you have the best outfit it is possible for you to buy. Note the low supply can on I HC separators, the beight of the milk spr at which allows a 10-gallon can to be used for the kim milk, the strong frame with open base which can be kept perfectly clean, and the dozen other features which make these chieses on some control of the service of the control o

Fashions for Spring Coats and Skirts

Form one Dairy futtern shown in these columns are expecially prepared orm and Dairy [Min-Roll.]. They can be relied upon to be the latest models include the most modern feather. They can be relied upon to be the latest models your order phase be carrylin to state to but or wait to measure rough form and even and the number of pattern desired. Price of all patterns to Our Folks, ice each real direction for the pattern Dayle, Term and Dairy, Feterborn, Out.

THE coats this season show a silk. Three sizes: Small, medium and radical change from ideas that large. have long been accepted by the A good style for the new frock for majority of us. For a considerable your little girl may be taken from the general considerable of time the

have long bee majority of us. F length of time the tailored suit has always taken a prominent place in the outfit of the well dressed woman, in many cases the expres-sion "tailored" meaning a plain-ness of the suit that might be called stiff Now, however, the styles are decidedchanged. The coats are loose and flowing, and a great many have a decided ripple, in fact rippling lines are one of the most striking features of this year's styles. The coat styles. The coat models for young

girls are very youthful, being quite short and their looseness suggests youth and slenderness. These new coats when worn with the peg top skirts or the new three-tier style of skirt, are considered authorities of fashion to obtain a soft and graceful effect.

The three-tier or three-tunic skirt is one of the very newest styles and should be welcomed by the slender woman, to whom they are very becoming. In making these skirts
a new style of
darts will be used. darts will be used.
All home dressmakers are well
acquainted with
the old style of
dart, that had to
be sewed up on
the inside, then cut away and pressed flat. The new style is sim-ply stitched like tucks on the out-side and gradually run off into nothing to make a proper fitting. We are showing one of

this week.













these three-tier styles in our designs Five sizes: 22 to 30 inches waist mea-

his week.

In design 9466 is shown a useful and practical apron of generous model for a lady's house dress is the onusewifely size, designed to protect the entire frees. The pocket is a use-tul addition that will be appreciated with a neat rolling collar. The simple by the wearer. Three sizes: Small, gored skirt has a tucked stitched in mediam and large.

A charming and popular design of design 9602. This model is very little labour in fashioning. It can be feat-This style is especially suitable for ured in white animook trimmed with the brocaded materials which are so much in vogue this season. Six sizes for lawn, dimity, cambric, crepe, or 32 to 42 inches bust measure.

April a Com

M day sentative of Agricult pear as sp experiment believe, pr factory-mix tilizer. (have induc graduate of to lend his of such a fr ers or to i principles of impart no of fertilizer

conditions 1 tests? In of assured, it is should be 1 and that th out are in the test, cit was condu farms. On a home-mixt nitrate of s muriate or gether with per acre, we fert supplemented per acre, wer Now the sa phosphoric ac d in 500 lbs could be sup

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mixture com nitrate of so phate and 100 which, accord

PROF. C. luminatir Canadian tion Conventie said there was is a deep-root and storing t soil and furni for stock of al

During a pe of 15 years w they had realis tons of green tons of dry n was to use 18 acre more with ley and to tak occurred about and again late believed the er kinds of soil age, sufficient plenty of lime During the la

a decrease of c were too tender was not an unn likely draw the growing the mo as Ontario Var alfalfa ONTARIO HAS

He said he ha of Maryland ma he considered th the best alfalfa east of the Miss around Utica, N place. Prof. 2 place. Prof. 2 could be grown lower basin of Lambton county south-western Or



International Harvester Company of Canada, Ltd At Hamilton; Ont.; London, Ont.; Montreal, P. Q.; Ottawa, Ont.; St. John, N. B.; Quebec, P. Q.



, 1914

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school could be com this f dark n chev-

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Comments on a Fertilizer Experiment Jas. Hunter, Lincoln Co., Ont.

My attention was called the other the separate materials, as quoted to day to a fertilizer advertise, me, would cost 87 or 88. It appears ment in which a district representative of the Ontario Department necessity of having equal soil conditions of agriculture allows his name to appear as sponsor for the result of an supply in the home-mixture amounts experiment, which, we are asked to of plant doctorresponding to those believe, proves the superiority of a in the factory-mixture, if the experinactory-mixed over a home-mixed ferment is be of any value as such. Again in one instance eight loads tilizer. One wonders what could

per acre, were applied.

Now the same amounts of nitrogen, vertisements, but I must confess surphesphoric acid and potash, contain prise at seeing the statements (miscould be supplied in 400 lbs. of a representative of the Ontario Gov-mixture compounded of 100 lbs. ernment, whose duties, as I undernitrate of soda, 200 lbs. acid phose-stand them, are to give the farmer phate and 100 lbs. muriate of potash, reciable information on all agricul which, according to ton let prices on tural subjects.

believe, proves sue and a factory-mixed over a home-mixed ferfactory-mixed over a home-mixed ferfactory-mixed over a home-mixed ferfactory-mixed over a home-mixed over the factory-mixed over the factory-mix of such a simulation of the such as a such asu

Use Salt that does
its weight being borne by a resilient ball bearing, permitting the bowl to run practically without rocking, with ease, smoothness and precision. Increases the centrifugal officere without increasing the speed. make good



BUILD SETE SILOS CONCRETE Any size with the London Adjustable Silo Curbs. Send for Catalog. We manufacture a complete line of Concrete Machinery. Fell us your requirements. LONDON Concrete Machinery. Go'y Limited, Dept. C. London, Ont. Largest Manufacturers of concrete machinery in Concrete machinery in

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Mulitary Habitan HARTSHORN SHADE ROLLERS Bear the script name of Stewart Hartshorn on label. Get "Improved" no tacks required. Wood Rollers Tin Rollers

TRY OUR BUTTER WRAPPERS — Mo SMALL HOUSE DECORATING COMPANY 1 Liberty Street, New York, N.Y.

SHARPLES CREAM SEPARATOR



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Patterned after the great world spinning on its axis, the revolving bowl of the TUBULAR has no fixed shaft and no fixed bearing. It is suspended

force without increasing the speed.

The TUBULAR skims close, is
easily and quickly cleaned, is built
sturdily in all of its few parts. All
gears are enclosed. It is constructed to afford a lifetime of
durability and consumes little oil.

Its appropriate is native land is not Its suspension is natural and is not eccentric to its center of gravity.

SHARPLES MILKER

The MILKER is in daily use under all widely varying conditions in dairies of different classes, in all dairying sections of the United States and Canada. The and Canada. The teat cup with the upward squeeze is almost human in its ability to adapt itself to the proper way of milking cows of different tensor

way or miking cows of different temper-aments. The fresh and heavy milker, the hald-up milker—all are milked as they should be milked.

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The SEPARATOR CATALOG and the MILKER BOOK give full details regarding the construction and utility of these dependable SHARPLES products.

The Sharples Separator Co. West Chester, Pa.

Chicago Kansas City San Francisco
Minnespolis Omaha Portland, Ore.

Dallas Toronto Winnipeg Agencies Everywhere

FREE

Nor is your chance to make your home attractive, it will be supported by the west left you, free of charge, how the mary his we will reli you are to fix up and how much you want to pendid 10,00 will do wonders), which was the supported by your track to the support of material with information and you free, amples of material with information and the price, where they may be bought and at what price.

I would be a supported by the support of the work of the w

\$15.00 and Upwards

Whether you have but one cow, or if you have fifty cows we have a High-Grade Gream Separator, suitable for your requirements, at a price you can afford to pay.

NATIONAL MACHINE CO. Brighton, Ont.

DOMO SEPARATOR St. Hyacinthe, Que.

An Expert on Alfalfa Seed Production

PROF. C. A. Zavitz gave an illuminating paper at the recent canadian Seed Growers' Association Convention on "The Production on the Production of Seed of alfalfa in Canada." He did there was no constitute about the light of the seed of alfalfa in Canada. "He the seed of alfalfa in Canada." He the seed of alfalfa in Canada." He the seed of alfalfa for Seed was said there was no constitute about the light of the seed of alfalfa for seed was

soil and furnishing excellent forage for stock of all kinds.

During a period of experimentation of 16 years with alfalfa at Guelph, they had realized an average of 19.9 they had realized an average of 19.9 they had realized an average of 19.9 they are to 19.0 the stop of the stop

was not an unmixed evil, as it would likely draw the farmers' attention to growing the more hardy strains, such as Ontario Variegated and Grimms' alfalfa

alfalfa.

ONTARIO HAS HERT SHED DISTRICT
He said he had heard Prof. anith
of Maryland make the statement that
he considered the Niagara Peninsula
the best alfalfa seed growing district
east of the Mississippi, with territory
around Utica, N.Y., as the next best
place. Prof. Zavitz thought seed
could be grown well all along the
lower basin of the Grand River, in
Lambton county and imports of
south-western Ontario profitably.

tion Convention on "The Production of seed of alfalfa in Canada." He said there was no question about the value of the alfalfa plant, which is a deep-rooted perennial, gathering mower, with or without a table attachment, a reaper, or a binder. The seed is usually obtained from the second soft of the seed production. But is the seed is usually obtained from the second of 15 years with alfalfa at Guelph, of 15 years with alfalfa at Guelph, production. It is threshed with a clover huller.

There are four kinds of alfalfa, of There are four kinds of alfalfa, of which the common or volte kind is grown most extensively, although it is scarcely hard venough for our northern conditions. The V-togen falfas are the only kinds that we also also also the common altafas strains seem to become fairly well acclimatized.

Besides those parts of Ontario where alfalfa seed can be produced, parts of southern Alberta and Sas-katchewan seem to be adapted to seed katchewan seem to be adapted to seed production. Reference was also made to Prof. Hansens's introduction of a yellow affalfa from Siberia, which is being tested out now for northern conditions in the United States and Canada. Summing up. Prof. Zavitz

(1) Alfalfa can be successfully grown in many parts of Canada.
(2) Seed can be produced in Can-

(3) Ontario Variegated and Grimms should be the strains to grow, (4) Seed growing centres should be organized.

organized.

(5) The C.S.G.A. could be an agent both for the encouragement of agent both for the encouragement of seed production and its distribution.

You can do it! The Spramotor has improved fruit yielde in diffreen spramotor has improved fruit yielde in diffreen control of the country from almost nothing to 400 bushels an acre from almost nothing to 400 bushels an acre testual control of the first spramotor that will fill the bill also a copy of our valuable illustrated treatise on Crop Discusse, Fillies.

We make Spramotors at prices all the way from \$6 to \$350 - a machine for every requirement

HEARD SPRAMOTOR CO., 1786 King St., LONDON, CAN.



The best and easiest way to use

Eureka Harness Oil

is with the Eureka Harness Oiler.

No waste. Nothing to get out of order. Ask your dealer.

THE IMPERIAL OIL CO., Limited

St. John

FOR SALE

About 10 Bus. Wisconsin No. 7 Choice Seed Corn. Selected and rack cured, pure. Also quantity of high-class Seed Oats, Irish Victor variety, weighing 40

R. O. L. SCRATCH ESSEX CO., ONT

Holstein-Friesian Association of Canada Applications for registry, transfer and embership, as well as requests for blank forms and all information regarding THI FARMER'S MOST PROFITABLE COW should be sent to the Secretary of the

W. A. CLEMONS, ST. GEORGE, ONT.

Ploughs-Wilkinson S.S. Soft Centre Steel Mold!



The Value of Sweet Clover and It's Uses

ANADIAN seed houses are re-ceiving numerous inquiries regarding sweet clover, its value and uses. Probably this interest is due to the favorable reports that are reaching Canada from United States districts where sweet clover is not regarded as a weed, but as a very valuable farm crop. Numerous experimental stations in the United States are growing the plant and reporting favorably on its value.

There are three varieties of white clover, the white sweet clover, the yellow sweet clover, and Melilotus Indica, a yellow-flowered annual species. The white sweet clover is the strong est grower and best of the three varieties. When young, it resembles alfalfa to such a degree that it is often mistaken for it, but when mature, which is during its second season, it attains a height of five to eight feet. and blooms from June to October.

The roots of all varieties are large, fleshy, and much branched, and go down to considerable depth. In the Biennial Species these, with the tops, die at the close of the second year. The plant is quite widely distributed, but is found growing most luxuriant ly in limestone soils. Hence we find it growing well where fertility has become exhausted through constant This indicates its value in the reclamation of worn-out fields and hillsides, which have washed bad-ly. It is of great value in this re-spect, and the demand for seed is increasing rapidly. The following increasing rapidly. The following in-formation on its culture is given in the Iowa Homestead, a United States paper published in a district where sweet clover is extensively used:

SEEDING OF SWEET CLOVER

"Under ordinary circumstances, sweet clover will do well if seeded at the rate of 20 lbs. per acre early in the spring along with a nurse crop. There is some advantage in sowing with a crop that matures early, like early oats or barley, because, in that

case, there is not the same danger of the nurse crop drying out the soil, thereby endangering the young clover plants

"In some cases sweet clover is seeded early in the spring without a nurse crop, but the objection to this plan is that under ordinary circumstances the growth of weeds will tend to thin the stand. Furthermore, by sowing in this way, it practically means that one must give up the use of his land for a year because in all probability there will not be sufficient growth of sweet clover the first year to make a good cutting. Wherever the plan of sowing the clover without a nurse sowing the clover without a nuise crop is carried out, seeding should be done in the fall, some time be-tween the middle of August and the of September.

"The variety of sweet clover that "The variety of sweet clover that produces a vellow blossom should be used by all means, as the yellow-blossomed plant is really nothing more nor less than a weed. The latter tends to go to seed early, and it be comes woody before the grown is the comes wood when the comes wood work white work was the comes wood when the comes wood work when the comes wood work when the comes wood we would be comed to the comes wood when the comes wood work when the comes wood when the comes wood work when the comes wood work when the comes were well when the comes wood work when the comes wood work when the comes wood we will be comes wood when the comes were well when the comes wood when the comes wood when the comes were well when the comes wood when the comes were well well as large enough to make anything like a satisfactory yield."

a Sanstactory yield.

Apart from its great value as a nitrogen gatherer and producer of humus, sweet clover is being used most extensively in Kentucky as a pasture grass. Once stock becomes most extensively in Kentucky as a pasture grass. Once stock becomes used to it, it is eaten as ready, are clover, and the stock appears of thrive on it equally as well. It is especially good as an early pasture. For hay it is cut just as it is coming into bloom, and is handled in a similar way to alfalfa. Sweet clover is one of our coming a

Sweet clover is one of our coming plants, both as a soil improver and plants, both as a soil improver and as a forage crop, as it will grow on soils which are too poor to produce cither clover or affalfa, and eventually brings them up to a high state of fertility. It also inoculates the soil and puts it in excellent condition to grow affalfa. Where soil conditions are right for clover and affalfa these are, of course, the preferable crops.

Compliment for "Our Lady of the Snows" John Smith, Dufferin Co., Ont.

is a practical compliment to her is a practical compinion to ber by a practical farmer. It is inspired by reading an editorial in a United States paper. Here are a couple of paragraphs from that editorial: "In Missouri two farmers, living in

separate counties, but at an equal distance from the cotton market, learned tance from the cotton market, learned by telephone—by the way, there is by telephone—by the way, there is no more important factor in profitable narketing than the telephone—that cotton had gone up in price a dollar a bale. One of thres two farmers a bale, one of these two farmers a bale, one of these two farmers of the profit of the pr

in price gained the first farmer \$1,

in price gained the first farmer \$1, the second farmer \$4.

"A farmer living in Sullivan country, Tennessee, a few miles from Bristol, had a hundred bushels of potatoes which he proposed to market during the winter. But the roads were so bad he was unable to do any hauling whatever, and the potatoes rotted in his cellar. In the meantime, the price of potatoes in Bristol went up to \$1.40 a bushel. During the winter ten car loads of farm produce, including wheat and potatoes, were shipped into Bristol daily to feed not only the town, but the surrounding country. In this case the townspeople were not only obliged to pay a higher price, because of their daily supply coming from a distance, one.

"Our Lady of the Snows." It because of his inability to haul his potatoes to town, the roads being too bad."

OUR WINTER ROADS

These farmers lived in a country These farmers lived in a country where their winter is a rainy season. I have no doubt they pity us up here in Canada in what they are pleased to call "the land of ice and snow." But it is we who should pity them. "Our Ladw who should pity them. "Our Ladw of the Snows" provides us with roads that for hauling produce to make a reason of the finest macadear are superior to the finest macadear are superior to the finest unisance, but the increasing popularity of wire fences will soon do away to a large extent with this imaway to a large extent with this imaway to a large extent with this impediment to country roads in winter. Let us not grumble about our climate when it supplies us with several months of fine roads.

I would just like to add here that "our road problem" is not a farmers' problem so much as the problem of the automobile owner. During normal winter we have good roads for marketing produce or for visiting our friends. During the major part of the summer even dirt roads afford choice wheeling. The worst roads are in the spring, and if we are forehanded we can arrange our work so that there is practically no hauling to be done while roads are bad. When it comes to building \$10,000 a mile roads it strikes me that the proportion the farmer should pay is a small

April 2. necesses The N

Butter a vited to s departmen matters re and to su sion. Butter a vited to s departmen matters re and to so sion. Watch The chees ardent cham tor R. W. V Ward, when

of Farm and pably blue future of the "I have b years. must take h No business be so carele many cheesen dairy instruc exerting him cheese factor was his impo But condition sequently the on skim milk tion. Hence t ery and of the
"I am firm!
Mr. Ward, "th cared for at t

and it is up t whey pasteuris proper attentio cheese busines Milking Ma

and pigs. almost take th

Prof. H. H. We have not advocate of the cows, after ou O. A. Colleg years these ma much improved perience of farr of cows indicate to solve the pro herds, and it loo factory districts are likely to pr day has gone management car wide territory of much more than ing, let alone c and leaving a pr Larger herds n by the owner of vans driven by electric power se

ing plan.

During the parameter of the power states of the po engine hauling fruit farm three ed with tomatoes ning factory. Or need also to adop order to reduce the ing milk to the fa of better cows m and the milk hau less cost seems to modern cheese from address.

With properly n boxes to begin with and close supervi labor is necessary, cal and up-to-date possible for loadin breakage and dan cheese boxes shou minimum. — A. V Cargo Inspector, I

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The Makers' Corner

Butter and Cheese Makers are in-vited to send contributions to this department, to ask questions on matters relating to cheese making and to suggest subjects for discus-sion.

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Watch the By-Product

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Watch the By-Product
The cheese business has no more ardent champion than Dairy Instructor R. W. Ward. And yet even Mr. Ward, when conversing with enditor of Farm and Dairy recently, was palpably blue when he talked of the future of the industry. "I have been telling the boys for years," said Mr. Ward, "that they must take better care of the whey. No business can stand for long and be so careless of its by-products as many cheesemakers have been of the whey. When I first started of their whey. When I first started of their whey. When I first started of the when I fi

many cheesemakers have been of their whey. When I first started out as a dairy instructor, ever farmer was admity instructor, ever farmer was admity instructor, ever farmer was caverting himself to the send every last drop of milk content cheese factory. The cheese cheduce factory. The cheese cheduce factory. The cheese cheduce has been been so with a content of the content was his important source of income. But conditions are changed. Live stock is now high in price, and censequently the value that farmers place on skim milk is increasing in proportion. Hence the growth of the cream shipping trade. "I am firmly convinced," continued Mr. Ward, "that whey, when properly cared for at the cheese factory, is a very desirable food for young stock and piess. Good sweet whey will and take the place of skim milk, and the proper strength of the cheese business can hold its own."

Milking Machine for Patrons

Prof. H. H. Dean, O.A.C., Guelph We have not been a very strong advocate of the machine for milking cows, after our experiences at the O. A. College, but within recent years these machines have been very much improved. The practical ex-perience of farmers with large herds of cows indicates that they are likely of cows indicates that they are likely to solve the problem of milking large herds, and it looks as if in our cheese berts, and it looks as if in our cheese factory and it looks as if in our cheese factory are the prove profitable. The day has gone by when the factory management caused are likely to the day has gone wide territory callinate when so were a wide territory callinate when so wide territory callinate which will be discovered by the factory and the second profit of the producer. Larger herds milked by machinery and the milk delivered at the factory by the owner of the cows or on large vans driven by horses, gasoline, or electric power seems to be the coming plan.

consistency of the complex seems to be the coming plan.

During the past summer, in the Grimsby district, we saw a traction engine hauling daily from a large fruit farm three to five wagons loaded with tomatoes and fruit, to a canning factory. Our dairy farmers will need also to adopt some such plan in seed also to adopt some seed also seed also seed seed also seed also seed seed also seed

With properly made and well fitted boxes to begin with, with proper care and close supervision where manual labor is necessary, and with mechani-cal and up-to-date appliances where solves the foliation of the control of the possible for loading and discharging, possible for loading and discharging, the control of the control of the control of the cheese to an experience of the control of the Carso Inspector, Livernool, Eng. Cargo Inspector, Liverpool, Eng.





TWEED DAIRY APPLIANCES

Fig. 1

Your greatest profit lies in keeping pace with the times
practically acid proof, and a hundred times as durable.
We feature for proof, and a hundred times as durable.
We feature for lines for the up-to-date cheese factory.
The "TWEET Steel Chesse Vat, Fig. 1—Of heavy galvanized steel, perfectly rivetted and soldered. Our patent draining system innurse perfect draining to the last drop. Water and steamproof asbested lining, a perfect base holding davice. If not as restation, such metal representations and the steel cheese factory.
The "LAL" Management of the own.

The "LAL" management is a station, as the station of the

Additional the state of the sta

THE STEEL TROUGH & MACHINE CO., LTD. 135 JAMES STREET, TWEED, ONT.

Our "XXX" Vegetable, Clovers and Timothy Seeds are approved by the Dominion Government for Purity and Germination. Ask your dealer, or write direct for catalogue. WM. RENNIE Co.

TORONTO

No. 16 Planet Jr Single Wheel Hoe, Cultivator, Rake and Plow

Also at Montreal, Winnipeg and Vancouver.

The highest type of Single Wheel Hoe made. It is light, handy, and adapted to use by man, woman, or child. Has leaf guard for close work, and a durable steel

No. 76 Planet Jr Pivot-wheel

Riding Cultivas tor, Plow, Furrower, and Ridger

Nearly two million soil-tillers all over the world are saving time, lightening labor and getting better results by using Planet Jr guaranteed farm and garden tools. For all requirements, \$2 to \$100.

FREE Our new 72-page illustrated cata-logue describes 60 tools for all kinds of horse and hand cultivation. Write

S L ALLEN & CO Box 1202S Philadelphia Write for the name of our nearest



Planet Jr. Wheel Hoe, Cul-



Write for name of our nearest Agency

The Macdonald-Hamill Discussion

H. C. Hamill, York Co. Out.

IN Mr. Macdonald's letter of March many of those \$27.50 cows it will take 19 in Farm and Dairy, he tries to to make the profit I have made in one draw a rod herring across the trail year; and don't forget to deduct the of those \$27.50 cows. Possibly he is expenses you have shown us are neashamed of them and wishes us to cessary. You might also state how forget he ever wrote about them. I many acres it would take to grow shall return to them later on. I will feed for them under your system of admit that my profits were not what feeding. I am sure it would prove I would have wished or what they most interesting reading. should be, but in making a comparison it would have taken 18 \$27.50 cows to give Mr. Macdonald the same cash wages I have allowed myself.

It would have taken two more to have It would have taken two more to nave and now once more the winter's o'er, supplied my family with milk and And snowfall's roar and sap once

butter for a year.

Now, Mr. Macdonald, be honest Can any man keep such cows and allow himself as much as I have, beallow himself as much as I have, besides other things, such as free house, proceeds of poultry, orchard, and octates, and garrien fruit and egetables? Mr. Macdonald says my statement is misleading, and costs much below what they actually ought to be. If any reader of Farm and Dairy will take the trouble to compare my statement with what Mr. Macdonald says: it ought to be, they will find it above that the says in processor. what he says is necessary for ex-penses. I placed incidental expenses penses. I placed incidental expenses or overhead charges and depreciation on buildings and implements above what I have found necessary for myself in order to compare with condi-tions on the average Ontario farm. where tools and implements are not looked after as carefully as they should be. As to actual profits, the looked after as carefully as they should be. As to actual profits, the proof of the pudding is the eating of it, and I can assure Mr. Macdonald as to the profit, as I have tangible evidence to show, although not as much as I hope to be able to make as

Maple Notes R. F. Whiteside, Little Britain, Victoria Co., Ont. And now once more the winter's o'er,

My sample tested 30 per cent, only one other being as thick as mine. Mr. Snell said mine would crystalize and deteriorate and that I might make about six gallons of syrup out of it about six gallons of syrup out of it by adding water, but people around here prefer thick syrup even if a little dark, rather than sap at \$1.30 a gallon

My sample tested 30 per cent, only



Too Much Timber in This Style of Manger

The manger arrangement in the stable of B. Il. Ness, Chateauguay Co. Que, was producte when installed. The lighter steel countruction is now, however, more many respects, however, this many respects, however, this product when many respects, however, the stable of the country of the stable of the charge of the stable of th

New Powers for Railway Commission

A Government bill has been introduced in the Senate which confers upon the Board of Railway Commissioners sweeping powers in regard to railway capitalization and the issuing of railway security. It also brings water transportation companwithin the jurisdiction of the Board.

The section respecting capitaliza-The section respecting capitaliza-tion and the issuing of securities is based largely on the California law, and is likely to meet with consider-able oposition from the railway comable oposition from the panies. It provides that no company, unless heretofore authorized by the Governor-General in Council, shall Governor-General in Council, shall issue stock, bonds, debentures, mort-gages, or other securities or evidences of indebtedness payable more than one year after the date of issue, otherone year after the date of issue, otherwise than solely for money considerations and without first obtaining leave of the board for such issue.

WIDE FOWERS INDEED

It is further provided that the board It is further provided that the board shall have jurisdiction to impose any terms or conditions it may deem pro per in regard to any such issues, may specify a price below which 'such issue shall not be sold, and the purposes for which the proceeds of the issue are to be used. The board may

evidence to show, although not as Cleanliness and care enables Mr. Noss to ship about the best milk that reaches in Canada, the Montreal market. The best milk that reaches a store my farm increases in fertility and the output from the dairy herd shows a Through drift and storm, the maple corresponding increase.

Corresp



Every Modern Farmer Needs These Labor and Money-Savers

Renfrew Quality in All Three

For weighing cattle, horses, hogs, sheep, feed, milk, butter, grain, groceries, etc., you need The Renfrew Handy Two-Whee Truck Scale. Weighs from 1 lb. to 2,000 lbs. Weighs accurately on even or uneven ground. Government Inspector's Certificate attached. Strong, durable yet not heavy. Built especially for use on the farm. Write for our Scale Booklet and learn how this scale has paid for itself on the farm in less than three months. Sold on a Special Easy Payment Plan.

The Renfrew Standard Gasoline Engine is known as "the engine that starts without cranking." Runs so smoothly and so perfectly balanced it needs no wooden blocks under the wheels to prevent truck from crawling. Remarkable simplicity of con-struction makes it easy for a boy or girl to understand and run one. Has Governor of struction makes it easy for a boy or girl to understand and run one. Has Governor of Fly-Ball Steam Engine Type. Very econ-omical on gasoline. All styles and sizes from 2% to 60 h.p. Write for our Engine

Every modern farmer has heard about the Standard Cream Separator—the separator that holds those remarkable close-skimming that hours those remarkable close-skimming records at Government Dairy Schools. But every one doesn't know why its skims so close—loses but one-tenth of a pound of butter fat in every 1,000 lbs. of milk skimbutter fat in every 1,000 ibs. of milk skim-med. The reasons are given in our new separator booklet, which also explains the self-oiling system, the low supply can, high-crank shaft, sanitary bowh, helice gears, remarkable new-idea neck bearing, etc. Write for a copy

THE RENFREW MACHINERY CO., LIMITED, Head Office and Works, RENFREW, ONT.

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Agencies Almost Everywhere in Canada

April 2, 10 AYRSHIRE CON HAVE REGIST TEST SI

Milkmaid 7th, Ibs. fat, 4.36 per er: A. McRae P. E. I. er. A. Mekae P. E. I. Spipe Lucy, 68 Bat, 3.77 per cen a Sona, Charlot Bat, 3.77 per cen a Sona, Charlot Bat, 3.77 per cen Bros., Cloverdale May Moru 5d milk, 465 lbs. ft days Ant. Edward May Moru 5d May Moru 5d May Moru 5d May Moru 5d May Moddisse Primrose of Ta Primrose of Ta Primrose of Ta Primrose of Ta Julia, 3258, 304, 32 per cent fat Bros.

Bros.
Lady Kirsty of milk, 992 ibs. far days. Easton Bros.
Dairy Maid. 247 lbs. fat, 4.22 per coleiand, Henmins Lassie, 32791, 8,66 4.70.
Co. Menie, Ont.
Blue Bell 5th oi bs. milk, 554 lbs. f days. W. W. Balli days. W. W. Balli
Primrose of Tan
Ds. milk, 422 lbs. i
days. Wooddisse 1
Village Belle, 252
Willage Belle, 252
Willage Belle, 252
Willan & Leggat,
Princess of Tang
milk, 355 lbs. fat,
days. Wooddisse B
Belvidere Princess
379 lbs. fat, 465 p
A. McRae & Sons,
W. McRae & W. McRae

Jubilee of Hickor bs. milk, 453 lbs. 66 days. N. Dymer Jubilee of Hickers

Jubilee of Hickers

So days N. Dyme

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ros.
Bryn Helig Lily, 36
l lbs fat, 4,34 per of
Richards, Red Deer
Saster, 32760, 7,255 ll
B per cent fat, 35

Solve Cell 1st, 35

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by il, shall AYRSHIRE COWS AND HEIFERS THAI HAVE REGISTERED IN THE R. O. P. TEST SINCE LAST REPORT Mature Class Milkmaid 'thi, 28721, 6,666 libs milk, 729 last, 4.56 per cent fat, 366 days. Own er: p. L. Milkmaid School, Charlottown.

Julia, 2569, 9,697 (see milk, 460 lbs. fat., 42 per cent fat, 556 days. Wooddisse Brow. 1971, 243 Wooddisse Land 1971, 243 Wooddisse Land 1971, 243 Wooddisse Brow. 1971, 243

. McRae & Sons, Charlottetown, P. E. I.
Three-Year-Old Class
Jubilee of Hickory Hill 3rd, 58202, 11,759
ba. milk, 455 lbs. fat, 5-66 per cent fat,
66 days. N. Dyment, R. R. No. 2, Hamil-

Box Mirro, See Now and, See Port Serial Sec.

Box Mayrs. N. Dymentt, B. H. No. 2. Llamil,
Globy Maid of Hickory Hill, 26206,
Globy Maid of Hickory Hill, 26206,
Boy Maid of Hickory Hill, 3590 per cent.

Bat, 355 days. N. Dyment.

Bat, 355 days. N. Dyment.

Bat, 357 days. N. Dyment.

Bath, 367 lbs. fat, 475 per cent fat, 355
Bays. N. Dyment.

Basis of Hillieve End, 3537, 9697 lbs.

Balls, 467 lbs. fat, 475 per cent fat, 355
Bays. N. Dyment.

Bath, 356 days. Samuel C. Brocket, Middle Musenudoblott, N. S.

Maise Wylis, 2627, 2628 lbs. Bath, 356 days.

Bath, 356 days. N. Dyment, 3531, 7, 7566 lbs.

Bath, 359 lbs. fat, 455 per cent fat, 356
Bath, 359 lbs. fat, 455 per cent fat, 356
Bath, 359 lbs. fat, 455 per cent fat, 356
Bus. fat, 430 per cent fat, 356 days.

Mcharcey, Russell, Ont.

Barcheckie Heices, Beachville, Ont

tos.

Bryn Helig Lily, 3068, 7,415 lbs. milk.

Bryn Helig Lily, 3068, 7,415 lbs. milk.

Bishards, Red Deer, Alta.

Richards, Red Deer, Alta.

Baster, 2766, 7,255 lbs. milk, 299 lbs. fat,

Wooddisse

Wooddisse

99 per cent lat, 300 days. Woolndsselven.

101 Brown 2nd of Hickory Hill,
203, 7,025 lbs milk, 279 lbs fat, 359 per

1023, 7,025 lbs milk, 279 lbs fat, 359 per

1034, 370 fbs fat, 69 per cent fat, 366

1037 lbs fat, 409 per cent fat, 366

1037 lbs fat, 409 per cent fat, 366

1037 lbs fat, 409 per cent fat, 366

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AYRAHIBE COWS AND HEIFERS THAT
HAVE REGISTERED IN THE R. O.P.
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THE SINCE LAST ROLE OF THE R. O.P.
MIRMAID PROPOSED ROLE OF THE R. O.P.
P. E. I.
SPICE LOSS ROLE OF THE R. O.P.
SPICE LO

MALES AT THE SALLEY DISPERSION
One of the fine built calves being offered by F. Salley in his great dispersion sale on April 2018, but his great dispersion of the Black and White the Lyons, one of the Black and White sale and the first four subject of the Black and white white sale was a sale of the Black and white white sale was a sale of the sale of the Black and white sale was a sale of the sale of

"King Lyons, the sire of King McKin-ley Lyons, is the herd sire at Moyerdale.

(Concluded on page 31)

It needs no painting THOSE neat sparkling roofs THOSE near sparking rough shining in the sun-you see them all over the country-they are Amatite roofs. The fact that Amatite needs no painting means a great saving to those who use it. It is also a great convenience not to have to paint roofs. Many buyers have adopted the policy of using nothing but Amatite owing to this economy and satisfaction. A booklet about Amatite will be sent free on request. Address our nearest office RECTIONS INSIDE OF ROLL The Paterson Mfg. Co., Limited Montreal Toronto Winnipeg Vancouver St. John, N. B. Halifax, N. S. Sydney, N. S.

FOR SALE

C. NO. 21 BARLEY, from seed of years' selection. Germination 99 Free from noxious weeds a limited quantity of Banner Oats selected seed. For price and

J. H. Stark, R. R. No. 7, Peterbore, Out.

FOR SALE

Eggs from pure-bred Barred Rocks and White Leghorns Choice laying strains \$1.00 for 13 Order early Also, King and Cuthbert Raspherry A. J. ARNOTT, R.R. 5, PETERBORO, ONT.

Potato Profits

IRON AGE Planton Planters



Raise Better Calves at Less Expense, with

It is as larger necessary or even advisable to give years. The second of the property of the p

or write us direct. Also inquire about our club plan, whereby you can secure 100 pounds of ROYAL PURPLE Call Meal for best call raised in your district.

Britta, ROYAL PURPLE of the bast it will related in your skitchet.

ROYAL PURPLE other to make others, because it governments to be a support of the problem of the problem

We will send 700 lbs. Calf Meal Freight Paid for \$4.25 W. A. Jenkins Mfg. Co. London, Canada

HOLSTEINS

FOR SALE



Hamilton Farms, St. Catharines, Ont.

Herd Headed by PRINCE HENGERVELD OF THE PONTIACS Son of KING OF THE PONTIACS

See Issue of Farm and Dairy, Jan. 22, 1914. BULL CALVES FROM TESTED COWS COWS AND HEIFERS bred to Herd Sire

FAIRVIEW FARMS HERD

is the only place on earth that you only source a young built that is a brother to the size of the own holding the championship of Canada as well as the United States. Both of these records are held by core that were sized by some of CAMBRICKE. We can offer you a few of his some at reasonable process. The contract of the contract of

F. H. DOLLAR.

MEUVELTON, NEW YORK.

HOLSTEINS

NEAR PRESCOTT, ONT.

Anything in Holstein Females

SPECIAL OFFER: 20 Heifers, 10 to 18 nos. old. Large and growthy and well

raised.
Four Bulls fit for service.
Four Bull and Helfer Calves, also Young Cows.
Write me or come and see what we have that
you think it would pay you to buy.
WM. HIGGINSON - INKERMAN, ONT.

Walnut Grove Holsteins Bull Calf for sale, 13 months old. Dam's official record, 21.76 bs. butter in 7 days. Sire, Canada's greatest herd bull. Sir Lyons Hengerveid Segia Also a number

MR BREEDER: Possibly in your own herd you have descendents, or relatives of some of the world's great-est producers. Let us investigate for you. An extended pedigree will put you right. Our prices are reasonable. Write now for price list on:

Sale catalogues. Extended pedigrees. lolstein literature. Blank Pedigree

Canadian Holstein Pedigree Co.

BEDFORD PARK, ONT.

Holstein literature.

C. R. JAMES - LANGSTAFF, ONT.

From 1 week to 6 yrs, old, 75 head to

Lakeview Holsteins

Senior herd bull, OOUNT HENGER-VELD PAYNE DE KOL. a ent of PIETERTHE HENGENEELDS COUNT DE KOL and GRAGE PAYNE PND. Junior bull, DUTCHLAND COLAN-THA SIE MONA, a son of COLAN-THA JOHANNA, LAD and MONA PAULINE DE KOL.

Write for further information to E. F. OSLER, - BRONTE, Ont.

Grandsons of "King of the Pontiacs"

NEPHEWS OF "PONTIAC LASS," 44.18 LBS.

From richly-bred imported or Canadian-bred dams with high records—one 25 to 5-yr-old; one 167-15.b 2-yr-old. "Prilly," who now has a 30-th 3-yr-old sister; one illub 3-yr-old sister or world a record in the yr-old sister or world a record in 4-yr-old. 26 at the None textunder 18/y; the as 3-yr-old claves are all large, straight, light or dark, and will sell at recorded prices to make room.

and pedigree. State about price K. M. DALGLEISH LOW BANKS FARM, KENMORE

MANOR FARM Write for beautifully illustrated catalogue describing some of the cattle, also giving a short extended pedigree of each one. We are very busy making official records. Watch the official reports in this paper for the They are very satisfactory.

No cows, no heifers, no bulls, for sale until May Twenty-sixth, Nineteenfourteen, when you can buy them at your own prices.

MANOR FARM - BEDFORD PARK, ONT.

THE STEVENS HERD HOLSTEINS (Established 1876)

THE STEVENS HEAD STALL STATES CANADA THE STEVENS HEAD STALL STATES THE STATES

OUR FARMERS' CLUB

QUEBEC.

QUESEC.

SHERBROOKE CO, QUE

LENNOXVILLE, March 19-Another belated anowatorm has improved the roads
for a few days. Sugaring is in sight,
but no new sugar made yet in this vicinbut no new sugar made yet in this vicintion of the sugar made yet in the vicinfarms purchased by the government for
an experimental farm, & grade cows soid
averaged %d each. Creamery butter seus
for %bo to ler, eggs, &bo to %e; pork, loc
in carcass. Beet is being shipped from
Montreal—II. Alexy.

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ONTARIO

CARLETON CO., ONT.

BRITANNIA BAY, March 18—The roads are in bad shape as they are very soft. Oats are at 40c; hay, \$30; straw, \$10; bran, \$34; bariey, 60c; eggs, 40c; butter, 50c.—J. A. D., OXFORD CO., ONT.

bran, \$34; bariey, 600; eggs, \$60; butter, 500-J.A. D. OFROB CO., 9NT.
NORWIGH, March 34-Many farmers tapped some days ago but cod weather since has stopped map running. Ground is very dry tor the time of the year, some content of the property of the state of the year, tered fairly well so far. Mich cows are scarce and high in price, at auction same setting from \$50 to \$325. Wheat, 400; bran, \$82; shorts, \$27; clienke, \$32; cottoneed, \$33; eggs, 20c.-J. McN.
WALKERTON, March 25-The high contents and the state of the single price of the sing

GOSSIP

The Southern Counties' Ayrshire Breeders' Club are making arrangements to hold an open public meeting and judging classes at Mt. Elgin, Oxford Co., on

Canadian Ayrahire breeders may be interested to learn that the famous "Lotus Fleids" herd of Ayrahires owned by Mrs. Fleids bend of Ayrahires owned by Mrs. On the State of the State of Ayrahires owned by Mrs. W. P. Schanck, of Avon. N. Y. has become the proud possessor of the ex-world's champion, Jean Armour, and her family. Jean Arm

BURNBRAE AYRSHIRES

BURNBRAE AYBSHIRES
Editor, Farm and Dairy—The five bull
calves we offer for sale are an exceptionally fine lot. All but one are sired
to be seen to be seen to be seen to be
son of Kuth (2576), with a four-year record of 10.15 lb. milk and 7506 fat, and
of office of the seen to be seen to be
of the seen to be seen to be seen to be
of Primrose of Tanglewyld the exchangion
mature oow of Canada. The only
calf not fired by Lochinary is out of a

Recesses a constant of the control o

another breeder's buil. He is an A1 call is every way.

For the other four, No. 1 sent of White, 1 for the other four, 1 for the form of t

calf is well marked, about half brown and half white; good coin; three months old.

Old. Jis out of Fanny, 6908, who gave has a marker cove, 550 he of 42, find in a year, but failed to calve in time to qualify in Ro. P. This calf is just a weel old, but is a fine one, nearly all white.

No. 4 is at exceptionally fine calf, out of Broomberry Gay Lass (Imp.). This cow has an official R.O. P. record of 6,00 hs. milk, testing over four per cent, a fine control of the calf is 10 days old, nearly all white. We would be pleased to have anyone desiring one of these calves come and see them one of these calves come and see them of the control of the calf is 10 days old, nearly all white. We would be pleased to have anyone desiring one of these calves come and see them one of these calves come and see them one of the calf is the control of the calf is the calf in the calculation of the



One Way of Raising Stumps

The other way is to allow the stumps rot until they can almost be taken by hand. The stump puller seen he with is in operation on the farm of 1 T. G. Sandy, Ontario Co., Ont

SALE AT ORCHARD HILL FARM

SALE AT ORCHARD HILL FARM
ON Wednesday, March 18th, Mr. W.
Gerow held his dup-run on and of 10
stein-Priesdan cattle at the farm near
Hoomfield, Ont. The highest price paid
at the sale was for Plus Echo Verbelic
Picton, for \$500. Some other good price
Picton of the good price, \$500. A 1
Burke, \$150. A D. Poster.

Artis De ho
Burke, \$150. A D. Poster.

(Continued from Inst week)

13. Lady Isabella, 8132, 69 9m td.; 5% lbs. milk, 1302 lbs. fat, 16.27 lbs. butter A. E. Phillips, Rossmore, Ont.
Senior Four-Year-Old Class

1. Max, 26141, 4y, 11m, 5d; 386.6 lb milk, 25.37 lbs. fat, 19.21 lbs. butter. Thirty-day record, 4y, 11m, 5d; 1.65 lbs. milk, 61.63 lbs. fat, 77.04 lbs. butter F. Hamilton, St. Catharines, Ont. 2. Topsy Ormsby, 3163, 4y, 8m, 38

OFFICIAL RECORDS OF HOLSTEIN FRIESIAN COWS FROM FEB. 1 TO FEB. 14, 1914

KING ISABELLA WALKER KING McKINLEY LYONS

As the Senior and Junior Herd Sires of the

60 Riverview Herd of Holstein-Friesian Cattle 60

we extend to all the DAIRY BREEDERS of CANADA, a kindly request to be present at our Big Dispersion Sale at Lachine Rapids, on Thursday, April 9th, at 1 p.m.

At no other Dispersal Sale in the Dominion has such a large number of richly-bred and heavy-producing Holsteins been offered to fallow breeders at public auction. There are 17 Mature Femilies with records from 16 to 24; lbs. butter; 3-year-olds from 17 to 22.32 and 2-year-olds from 18 to 20 lbs.

Hing Segis, King Fayne Segis, Sir Aagie Beets Segis, Paul Beets De Kol and Prince Mengervell of the Pontlacs. These are the sires of many of the females.

Could you ask for better blood.

Our Catalogues, will now be ready. Learn more about this bred by sending for one-

P. J. SALLEY, Prop., LACHINE RAPIDS, P.Q.

COL. B. V. KELLEY, Auctioneer, SYRACUSE, N.Y.

Watch Farm and Dairy for further information

April 2.

442.5 lbs. milk, ter. T. W. M Junior

Ont.
5. Fergy Cola
320.9 lbs. milk,
butter. T. W. M
6. Lyn River
422.3 lbs. milk, il
ter. J. Alex. W
7. Hillview M
344.9 lbs. milk,
butter. L. H. Li Senior T

Senior To 1. Colony Wad 2y. 11m. 0d.; 481.4 20.85 lbs. butter. Thirty-day reco lbs. milk, 65.63 b Colony Farm, Coc 2. Madam Paul 11m. 23d.; 368.5 1 16.96 lbs. butter. Ont.

Ont.
3. Bessie Posch
13d.: 325.9 lbs. mill
butter. A. E. Hull
4. Voeman Starj
36.7 lbs. milk, 12.0
ter. L. H. Lipsit,
5. Lady Kerndyl
9m. 12d.; 303.1 lbs.
butter. A.
Ont. Lady Nell of ; 324.3 lbs. mi butter. Walter Colantha Favi lbs. milk. 10.88 Colony Farm,

Junior Two Junior Two
1. Dixie Rose, 216
lbs. milk, 10.65 lbs.
T. W. McQueen, Til
2. Colony Birdie
26d.; 293 5 lbs. milk,
lbs. fat. Colony Fa
Special Tests Ma
Months Al

1. Grebegga 2nd.
382 60 lbs milk, 103 butter. Colony Farn
The official tests of were received and first half of Februs worthy are those within the colony with 30.4 lb frinces with 20.8 lb for two-year-old class

FRIESIAN COWS FEB. 2

Mature
1. Cubana De Kol 1
n. 2d.; 425.7 lbs. mil
e. 80 per cent butte
edford Park. Ont.
2. Queen De Kol 1
d.; 449.2 lbs. milk.
butter. 499.2 lbs. milk, butter. iirty-day record. 91, 71.59 lbs. fat. 89 gooderham, Bedford Dellah De Kol C 7d: 529 lbs. milk, butter. J. C. Baie Juanita. Pictertie 6d: 477.7 lbs. milk butter. A. S.

Helbon Spink's
15y 10m 30d; 38
173 10s 10m 30d; 30m
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Princess Zeeman 16d.; 361.7 lbs. mi lbs. butter. L. A.

442.5 lbs. milk, 14.87 lbs. fat, 18.56 lbs. but-ter. T. W. McQueen, Tillsonburg, Ont. Junior Four-Year-Old Class

, 1914

last year f 5-3 milk rear. The half brown ree month.

who gave of 4.2 milk in time to ust a week all white

p.). This prid of 6,800 or cent, as low in her a day. Her white. We not desiring they will stake they will stake a spring, so calves but n, Ont.

FARM Mr. W. Je of Holarm near price paid by Verbelle lliams, of good prices

Johnson Kol Acme yalist; be en, Deser l. Maybee 5, Carmer Segis le y Valley V. Lemon \$200, A. h is De Ko

OLSTEIN I TO

398.6 lbs tter. d.; 1.657 ss. butter

p.m.

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Junior Four-Year-Old Class

Junior Four-Year-Old Class

Junior Four-Year-Old Class

Junior Four-Year-Old Class

And Junior Julia Junior Junior Julia Junior Junior Julia Julia Junior Julia Junior Julia Julia Junior Julia Jul

Senior Two-Year-Old Class
1. Colony Wadmantie Princese. 21955,
29. Ilm. 6d; 481,4 ba milk, 1666 lbs. fat.
2368 lbs. butte.
Thirty-day record, 29. Ilm. 6d. 21068 lbs. milk, 636 lbs. fats, 256d lbs. butter.
Compared Compa

Bressis Posch of Tyrrell, 2028; 2v. 7m.

Bressis Posch of Tyrrell, 2028; 2v. 7m.

25 9 lbs. milk, 12 9 lbs. fa. 18 15 lbs.

Veeman Startieth, 2023; 2v. 8m. 5d.;

La. T. Lipst, Starafordville. Ont.

La. T. Lipst, 12 6 lbs. fat. 14.57

butter. A. E. Phillips, Rossmore,

butter. A. E. Phillips, Rossmore,

Ladv Nell of Milner, 19646, 2v. 8m.; 3343 lbs. milk, 11.49 lbs. fat. 14.35 butter. Walter S. Dieke, Milner, H. Colantha, Favne, 17152; 2. 11m. 3d.; lbs. milk, 10.88 lbs. fat. 13.40 lbs. but-Colony Farm, Coquitiam, H.C. Junior Two-Year-Old Class

Junior Two-Vear-Old Class

Julia Des. 2561. 2y Jm. 344.; 39.6

lbs. milk, 10.5 be fat 12.56 bbs butter.

T. W. McQueen-Tillson's Control

2. Colony Birdie Ornor Control

3. Signature Class Signature Class Colony Birdie Ornor

3. Signature Class Colony Farm, Cognitian, R. Special Teast Bade at Least Eight Months After Calving

OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS FROM FEB. 16 TO FEB. 28, 1914

FEB. 28, 1914
Mature Class
1. Cubana De Kol Princess 2nd, 2008, 7y,
n. 2d. 4857 bb. milk, 19.37 bbs. fat, 2d.21
cent butter. G. 8, Gooderham,
edford be Kol Posch, 5594, 9y. 1m.
d. 499,2 bbs. milk, 17.56 bbs. fat, 21.94
butter.

fat, 1973 lbs. butter, samuel tessessed, defe. Out.

White Lillie, 5942, 8y, 5m, 1941, 594, 98, 98, 1941, 19

e. Princess Zeeman Posch. 13383, 4y m. 16d.: 361.7 lbs. milk, 15.26 lbs. fat 08 lbs. butter. L. A. Everett, Simcoc

4. Princess Mercedes of Willowbanks. 553, 4y 11m. 6d.; 464,6 lbs. milk, 14.49 lbs. 8. 18.12 lbs. butter C. V. Robbins,

5. Alianah Canary Posch, 1283, 4y. 10m. 6d.; 479.8 lbs. milk, 1442 lbs. fat. 19a disc. 18 milk, 1442 lbs. fat. 1ynd-huzst, Ont 18 milk, 18

be butter. I. A. Franci ins. fat. 1643

Junio Four-Year-Oi inco.

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Junio Jan. 201. 1645

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Jan. 201

see 108 mile, 327 108. Inh. 12.52 108. Out.
Thirty-day record, 5; 1m. 174. 1865 9
1be. mill, 32.6 bb. fat. 650 1bs. butter.

J. Calamity Du-shess Hengerveld, 1825
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J. J. Lander Boutsteller, 1827

ter. Fourteen-day record, 2y, 6m.; 694.6 lbs. milk, 2230 lbs. fat, 35.01 lbs. butter. 8 Lemon, Lynden, Ont. 2000 lbs. butter. 8 Lemon, Lynden, Ont. 40.01 lbs. butter. 8 december 30.01 lbs. milk, 14.29 lbs. fat. 17.87 lbs. butter. H. P. Patterson, Allord Jct. 4 lnka Mercedes Hongerval 2 nd, 1900.4 lnka Mercedes Hongerval 2 nd, 1900.4

wood.
7. Rhoda De Kol's Jessie Maida, 18469,
2v. 11m. 10d.; 467.4 lbs. milk, 12.30 lbs. fat,
15.39 lbs. butter. P. J. Salley, Lachine
Rapids, Que.
8. Rivariaw May Balle, Wellynn, 1646.

Baptide, Que butter. P. J. Salley, Lachine 6. Riverson May Bells Walker, 19647. V. Im. 304, 1959 bit. milk, 253 bit. milk, 1152 bit. fat, 1403 bit. butter. P. J. Saller J. v. 10m. 545 bit. milk, 1152 bit. fat, 1403 bit. butter. Dearly milk, 1152 bit. fat, 1403 bit. butter. J. Saller J. v. 10m. 64; 335 bit. milk, 1657 bit. fat, 253 bit. fat, 154 bit. fat, 155 bit. fat, 155

ock.

11. Riverview Carlotta Walker, 18468,

12. 11m. 9d.; 3367 lbs. milk, 10.31 lbs. fat.,

89 lbs. butter. P. J. Salley, Lachine

Rapids
12. Concordia Pesch, 19937, 2y. 8m. 234;
2747 lbs. milk, 10.12 lbs. fat, 12.65 lbs.
butter. Bertram Hosdin, 10.13 lbs. fat, 12.65 lbs.
13. May Johanna of M. Gratton, Ont.
13. May Johanna of M. Gratton, 2797, 2y.
18. butter. G. S. Gooderham, Bedford Depk.

Gueen De Roi Propos.

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We will glady give information regarding the use of

on your soil. The soil must be greet to produce good crops Where sorrel, horse, sice, appear, the soil is sour; and you cannot expect the maximum yield of hay, cereal of fruit without correcting this said condition. Lime Oarshouted (Caledonia Mari) will do this means in the contract of the more than doubled the yield. We furnish blue lime have free with directions for testing your soil. Write us for further information.

INTERNATIONAL AGRICULTURAL CORPORATION CALEDONIA MARL BRANCH - 835 MARINE BANK BUILDINGS, BUFFALO, N.Y.

They Are Looking For Them NOW

BIC dairy breeders who find it necessary to change their herd sires are out to find suitable ones now.

THERE are scores of herds that will have new leaders next THERE are scores of neros that will have new leaders next year. Perhaps yours is one of them. You may be demanding one of some special breeding or type to "nick" in with your females, or you may have one of these for sale.

HOW do you propose to get him into the hands of your fellow-breeder who needs him? He doesn't know your herd, or what you have for sale—but a small advertisement fixed up now costs you only \$1.40 per inch, and will take you to 17,000 other

Let Farm and Dairy help you to sell your surplus. We want you to get results, too, or you wouldn't stay with us. Anything that helps us in advertising has got to help us FIRST. Let us help you to sell your surplus stuff—cattle, horses, swine, poultry, etc. Drep us a line to-night.

ADVERTISING DEPARTMENT

Farm and Dairy - Peterboro, Ont.

Percheron, Clydesdale and Shire | Belgian, Hackney and French

Percheron, Clydesdale and onire

Salliess, draws and Fillies

We have a batter buss and Fillies

We have a batter buss of sall the sall three th

J. E. ARNOLD, Grenville, Que. Grenville is midracy between Montreal and Ottown C.P.R. and C.N.R. There bearins daily from such city

ANTED—Four Grade Beef Calves, week old. State price.—Hugh McCutcheon.

AYRSHIRES **Burnbrae Ayrshires**

Now offer for sale five Bull Calves, six mos to two weeks old. A splendid lot, well marked and colored, from good milking imported and home-bred cows See goseip for further particulars and write JOS. HUDSON & SON, LYN, ONT.

HOLSTEINS

LYNDEN HERD High Testing
Bulls or sale, fit for service, with good
backing, and service, with good
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for milk in 1 year. Did may, 8,160 he,
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ANYONE WISHING HOLSTEINS OF THE BEST QUALITY

THE BRANT DISTRICT

s the place to buy. It comprises some of he best herds in Canada. Stock for sale at all times. Full list f breeders with post office and station decreas on application. of breeders with post office and Station address on application.

Address on application.

N. P. SAGER, Secy-Treas.,

ST. GEORGE ONT.

WOODLAND FARM HOLSTEINS WOODLAND FARM HOLSTEINS Headed by Maplecers to E. Sch. champion full brother to Banotine Belle De Kol. with champion rearly milk record of the world, offers world, offers world, offers world, offers world by the state of the world offers world by the state of the s

AYRSHIRES **Burnside Ayrshires**

Winners in the show ring and dairy tests. Animals of both sexes. Imported or Canadian bred, for sale. Imported or Canadian bred, for sale, long Distance Phone in Hones. R. R. NESS. ROWICK, OUR.

HOLSTEINS Grandsons of May Echo

FOR SALE

Twenty months old, sired by a son of KEYS. Color-two-thirds white. As an individual he cannot be beaten. Extended pedigree sent or compared to the control of the CLARENCE MALLORY, BLOOMFIELD ONT.

ELGIN DISTRICT HOLSTEIN-FRIESIAN BREEDERS HOLSTEIN-FRIESIAN BRUEDLENS
Can supply your wante in cattle of
the show-ring type, combined with
the show-ring type, combined with
go breeders will be een to application to the secretary.

BOX 254

AYLMER, ONT.

ONLY ONE LEFT

Bull Calf. born May, 1915; sire, "King Pontiac Artis Oanada"; dam a 221b. junior 3-year-old. We are also offering a few young R. of M. Cowe, due to freehen in April and May. BROWN BROS. - LYN, ONT.

Registered Holsteins

Our special offering is 2-year-old Heifers and young Cows in calf; also Bull Calves. Prices reasonable.

W. W. GEORGE - CRAMPTON, ONT.

EGGS FOR HATCHING, 81.00 a setting R.C.B. Leghorns, R.C.R.1. Reds and B. Rocks—Redmond and Walsh, R.B. No. 3, Hastings, Ont.

FOR SALE-Eggs from bred-to-lay Barred Plymouth Rocks, Parks and Guelph strains, \$1.25 per setting. Also from exhibition matings at \$2.50 per 15.— E. M. Husband, Delaware, Ont.

GENUINE CUTAWAY CLARK DISKS. Reversible, extension, single and double action. Write and get address of 40 farmers here who, recommend them. farmers here who recommend them.

FOR SALE

OR HIRE FOR THE SEASON

The Clydesdale Stallions, Grandie's Last, Imp. (1394). Baron's Pride and Hiswatha Blood. Also Seotland's Knight (1394) and Hilberest King, Imp. (15793). For further particulars apply to GEORGE MILLER. HILLCREST FARM VBLACKHEATH PD D



MAPLE STOCK FARM

DO YOU NEED HOLSTEINS?

Offers a large number of Young Coss and Heifers, also 5 Yearling Bulls, most of them aired by Woodland Schuling Sarcatic-lat 2yr-old bulls at Toronto in 1915. The dame of these are choicely bred times a large number of the description of the same choicely bred times a large model and good square udders—right every way—most of them are greatened-daughters of Tidy Abbekerh-all of the show type. As we have no public sale this year, we ould supply a carload if desired If you need good ones, see our lot before buying elsewhere. Prespective buyers met at Wasterford Station on request. WM. SLAGHT BEALTON, ONT.

CLEARING AUCTION SALE

At Lot 20, Con. 13, Percy Tp

Hastings, Ont., Wednesday, April 8

Includ s-2 REGISTERED CLYDESDALE BROOD MARES (4 and 5 years).

Includes-2 REGISTERED CLYDESDALE

PERCHERON MARE (errow
black) (7 yrs. 1,400 lbs.), by Lupin
A BAY DRIVER (a beauty, 1,200
lbs., 6 yrs.), by Rex Edward and
out of a wilkes mare—a lady's
diver, broken in every way, even
to seddle: used to sutos.
3 PERCHERON COLTS-1 coming

in foal:

HOLSTEINS—9 Choice Grades—all
heavy milkers—2 to 4 years old and
in calf to G. A. Brethen's herd sire
— Hillerest Butterboy Pontiac—a
milking strain hard to beat. I
Grade Jersey Cow.

ALL other Farm Stock—Pigs.

2 yrs, 2 one year old. Poultry, etc.

COMPLETE EQUIPMENT OF FARM MACHINERY — Binders, Mowers,

gons, Plows, etc.
FORTY-TWO ACRES OF STANDING TIMBER will also be put up. YOU ARE CORDILLY INVITED to attend this sale and buy choice sk and farm machinery at your own price.

C. C. HUCKYE Proprietor HASTINGS, ONT.

Sile at Farm. 2% miles east of town, at 1 p.m. sharp. Write for particulars

Is Made to Boys Who are energetic and anxious to get something of their own

What I want to say to boys of that class is just this, we are offering you a pure-bred pig, either boar or sow, of any of the popular breeds (you can have the breed you like best) for nothing but a little of your spare time.

We know you want to get a start, and we know you want to do that independently, but perhaps you have not got the money to buy a pig.

Then this is your opportunity. We have given away within the last year over two hundred purebred pigs. Most of these have gone to boys who have made considerable money from them, since they got them.

All you need is 9 new subscribers to

FARM AND DAIRY, PETERBORO

************************************* MARKET REVIEW AND FORECAST #

Taronto, Monday. March 28.—There is the little to be said of trade conditions, Most propely with business instinctes would rath r boost than grumble. Depleted the little to be said of trade conditions, Most properly with the little to be said of trade conditions, Most properly with the little to be said of trade conditions. Most properly with the little special conditions are the little which will be supported to the little special conditions are the little special conditions and the little special conditions are the little special conditions and the little special conditions are the little special conditions and the little special conditions are the little special conditions and the little special conditions are the little special conditions and the little special conditions are the little special conditions are the little special conditions and the little special conditions are the little special conditions and the little special conditions are the little special conditions a

the tendency is to lower levels.

Government statistical pines the acreage seeded to fall wheat in the United States at 5,000,000 acres, as compared with a little over \$1,000,000 last year. The wheat time of year, and all conditions point to a bumper crop. Seeding is about to commence in the Canadian West with soil more than the contract of the con

wheat, 80e to \$1.

Onts are in active demand for local delivery, are in active demand for local delivery, are in active demand for local delivery, are in active demand for export. Barley and rye are not being exported. Old Country offers not being above cost. Quotations are as follow 10 at 10

wheat, 70e to 50e.

Some feeders compains that brain is not to be have compained from local dealers is keen and quotations higher. Brain, \$24 to \$25 shorts, \$25 to \$25 smid-Montral, does local services and services and \$28 to \$35 smid-Montral, does see the \$28 to \$35 smid-Montral, does local services \$28 to \$35 smid-Montral, does local services \$28 to \$35 smid-S21, shorts, \$25 smiddlings, \$25 smid-S21, shorts, \$25 smiddlings, \$25 smid-S21, shorts, \$25 smid-S21, smid-S21

2. S12 to S1450; No. 3, \$59.00 to S10.

Potatoria Trafficial State BEANS
Potatores have eased off five cents a bug during the week. Ontario potatoes are now quoted 50c in ear lots and New Brunsseides, Sc. At Montreal too there Mountains at 50c and local potatoes at 50c.

Bean quotations are Primes \$82.00 to \$2.55; hand-picked, \$2.30 to \$2.55. hand-picked, \$2.55. hand-pic

HONEY

Wholesale quotations are: Buckwheat, in tins, 7%; bbls, 7c; clover, 60-lb, tins, 11c to 11%; 19-lb, tins, 12c; five-lb, tins, 12%; c: comb honey, 83 a doz.; extra, \$5.85; No. 2, \$2.40.

No. 2, 82-40. SEEDS
Wholesale seed merchants are selling to the trade per cert as follows: Red to the trade per cert as follows: Red 1815.00 and 1815.

No. 2, \$15 to \$15.50.

Merchants are paying farmers a bushel as follows: Alsike, No. 1, \$8.50 to \$9; No. 2, \$7.50 to \$8; No. 3, \$6 to \$7; red clover. No. 1, \$8.25 to \$8.57; No. 2, \$7.50 to \$8; timothy, No. 1, \$2.75 to \$5.25; No. 2, \$2.50 to \$4.50 to \$6.50 to \$6.50

LIVE STOCK

LIVE STOCK
The live stock market has showed tendency to weaken. Packers have no been as active in their buying as we have no their part, complain that the nuble of the part complains that the nuble of the part complains that the nuble of the part complains the proposition of the proposition of the part of

CANADA CA

Sale Postponed

C. C. Huyeke, Hastings Ont., who has been advertising his sale in Farm and Bairy for March 25th, has been obliged to postpone it until April 8th on account of his horses having distemper.

light and of fairly good quality. It completes the well cleared up except the complete complete the complete c

Western hogs still dominate the loca situation. The week, however, closed stronger than it began. Packers as buying freely at \$8.80 to \$8.85, f.o.b. cour-try points.

MONTREAL HOG MARKET

MONTREAL HOG MARKET
Montreal, Saturday, March 28—There
is little change in the market for its
little change in the market for its
little change in the market for dress
a cwt and the state of the market for dress
hogs is steady, but did to thanke a
values Supplies are light and sales we
made at \$14.

MONTREAL BUTTER AND CHEESE MARKETS

MONTHEAL BUTTER AND CHEES:
MARKETS MARKETS
MARKETS MARKETS
is absolutely asturbay, Mark as a prolease as a substitution of the substitutions are
changed, the trade generally looking; we want to the new season's business, who
want to the new season's business, who
want to the new season's business, who
want to the season's control of the season
this date. Cable advices from the old
indicate heavy receptor New Ze
land cheese, the output being somewhat
year. This increase is simply taking; in
place of the shortage in Canadians as
there is every prospect of a good mark
there is every prospect of a

Merchants are maxing farmers a bushel as follows: Albido, No. 1, 825 to 83, 90 to 89, No. 2, 875 to 88, No. 2, 875 to 875 to

ROLSTI Farm and
of The Ca
Association,
are readers
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April 2.

OXFOR The sale of tein-Friesian

Oxford Breeder appointing to for the most the pink of co realized was for Beets Segis, or She was purch of Woodstock,

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Lyons.

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quality. except for erage about 7.85 to \$8.56 heifers, \$6.5 \$7; com to bulls, \$4.5 7.25; cannon

dy at \$65 to 6; springer, rom \$5.50 to uality, se have been tred up as se, each, \$5 buck lamb, \$7.25; heavi-culls, \$4 to

e the loca ever, close Packers are , f.o.b. cour RKET h 28.—The ket for lie 89.50 to 898 upplies ar for dresse change d sales wer

CHEESE

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HOLSTEIN-FRIESIAN NEWS

Farm and Dairy is the official organ of The Canadian Helstein Frieslan Association, all of whose members are readers of the paper. Members of the Association are invited to send items of interest to Holstein breeders for publication in this column.

OXFORD BREEDERS SALE

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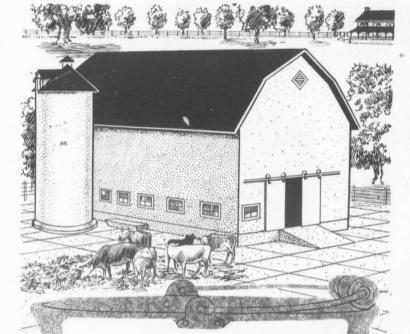


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