PARTE GRO DATET







Toronto, Ont., May 24, 1917



VANCOUVER ISLAND IS IDEALLY ADAPTED TO DAIRYING





The Surest Way Fo sell your surplus stock is through the live stock columns of Farm and Dairy. The cost is tittle and the results certain. Send in

In Union There is Strength

resenting the four great farmers' or-ganizations of Western Canada and of Ordario speut several days in Ottawa last week interviewing Sir Robtawa isst week interviewing Sir Rob-ert Borden and Hon, George E. Foster in reference to matters affecting the in reference to matters are sung the interests of agriculture in Canada. The delegation also attended two secsions of the Railway Committee of the House of Commons in order to make known the views of the farmers in reference to penaing legislation con-cerning amendments to the Dominion cerning amendments to the Dominion Railway Act. The delegation consist-ed of Mesars. R. MacKenzie, Secre-tary of the Canadian Council of Agri-culture, Winnipeg; H. W Wood, Presi-dent of the United F. mers of Al-berta; J. B. Musselman, Secretary of the Saskatchowan Grain Growers' As-the Saskatchowan Grain Growers' Association; R. C. Handers, President of the Mantichoa Grain Growers' Asso-ciation and O.I. J. Z. Fraser, of Bur-ford, and H. B. Cowan, of Farm and Dairy, Peterboro, Ont., representing The United Farmers of Ontario. sociation; R. C. Henders, President of

An interview was held with Sir Rob-ert Borden Wednesday evening, when members of the delegation laid before Sir Robert fully the farmers' platform as it was drafted last November by the Canadian Council of Agriculture and later endorsed by the four provincial later engorsed by the four prevencing organizations as well as by many district and local conventions. Premier Borden had just returned from his trip to Great Britain and was crowded with work, but willingly took time to have the adjunction process. hear the delegation present its case. This platform has been published in Farm and Dairy on previous occasions and therefore, is not repeated here. It asked for an increase in the British preference until we have complete free trade with Great Britain in five years, a reduction in the tariff on many articles pure ased by farmers, including agricultural implements, the nationalization of the railroads of Canada, the granting of the initiative and referendum, greater control by dry provinces of importations of liquor from outside points, and expressed a willingness, in order to enable the Government to make up the revenue Government to make up the revenue that would be lost by reducing the tariff to submit to a tax on land values, including all natural resources. The farmers also favored inheritance taxes, taxes on excess profits by cor-porations and an income tax on in-comes exceeding \$4,000 a year.

Sir R vert said that he recognized

that the recommendations of the farmers of Canada were radical in a farmers of Canada were radical in a number of respects and stated that while his colleasues and he would consider them seriously, he would not hold out much hope that some of them would be granted as they affected many interests and would involve many interests and would involve many than many than many than the serious than greater issues than might at first be supposed. He was not altogether in favor of the Dominion Government adopting systems of taxation which might clash with the methods of raising revenue already being followed by several of the provinces such as heritance taxes, income taxes, and the taxation of land values. These forms of taxation he thought might better be of exation de thought might better be left to the provinces to apply. In reply to congratulations which had been extended to him by the delega-tion in the part he had taken in the councils of the empire while in Eng-land, he expressed his thanks and mentioned that many important mat-ters had been considered, some of which he purposed making public

Farmers Lay Their Views Before the Covernment Surface of the Covernment Surface of the Canadian resemble of the Canadian council of Accounting and the Canadian save the impression that he was a council of Accounting the four scientists of the Canadian to the Canadian save the impression that he was a counting the four scientisms of the Canadian to the Canadian that the Surface of the Canadian that the Surface of Canadian that the Canadian t try, but the delegation came away feeling that before the farmers of Canada can obtain what they want from and can open what they want from the Government, it is going to be necessary to bring more pressure to beer on the individual members of primment, through the local farmers' anizations now becoming numerous in Ontario as well as in the west.

Railway Legislation.

Several hours was spent by the delegates Tuesday morning attending a sitting of the Railway Committee of the House of Commons at which legislation relating to proper cattle guards was under consideration. Both at this seasion of the committee as well as at one held the following day when matters relating to rural telephone lines and of special interest to the farmers of Ontario, were under consideration, it was noticed that the Railway Legislation. sideration, it was noticed that the railroad companies and the Bell Telephone Company had plenty of lawyers present to safeguard their interests. The farmers were without a lawyer to plead their case, but made such a strong case, more particularly in re ference to the railway legislation, that Mr. MacKenzie, who was the chief speaker, was asked if he was a lawyer, because of the knowledge of the situa-tion that he showed. When he replied that he was a farmer, he was com-plimented by a number of the com-mittee upon his handling of the case for the farmers.

Unsatisfactory Legislation.

Unactivatory Legislation.

For years the legislation relating to cattle killed by the rallroads on their railroad rights of way has been most unsatisfactory in character. Time and again when cattle have been killed, the again when cattle have been killed, the railroads have escaped the payment of railroads have escaped the payment of past claims to the farmers through the farmers being unable to prove that they had not left some gate open or some fence down. The proof of any people, on the part of the farmer was projected to the part of the farmer was although it might be perfectly apparent that the live stock would not have been kifled but for negligence on the part of the railroads. This was bepart of the railroads. This was be-

(Continued on page 13.)

Read and Discuss

at your club this week The Farm Tractor,"

By Louis A. Simpson. "Corn Ensilage" and the relative merits of different varieties.

By Geo. E. Day. "Feeding the Dairy Cow,"
By E S. Archibald.

"In Union There is Strength "

This department will prove particularly interesting this week. Farmers' representatives have been to

All in this issue of Farm and Dairy.



Trade ince VOL. XX

supply citizen numerous pro material influ plies. Amon quate supply dominant. If coming, then appear to be as will give t penditure of th it is that the r use of the sm come of econo Up to within

manufacturer production of the attendance day do mora man using only as mowing ma harvesters hav chines the ha forks, etc., etc. made was large increased throu increase in the until the limits case, would see time it was us pair of horses horses to a mac certain machine These, for Cans limit, although is States, teams of

are used for plo The long wint horse traction, t viding remunera horses during th this handicap, mu traction. Yet ce removed, because of the beast," I As the binder har to the reaping tractor be, within tions, the success work.

AF It is not claime now being produc the best examples become of econom be purchased at a of immense indus that the action of ance, in refusing tractors, is so une the present selling duty paid to the D



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

He ay

TORONTO, ONT., MAY 24, 1917

supply of foodstuffs, compels every good citizen to a serious consideration of the numerous problems, the solution of which have material influence upon the world's future sup-Amongst these, the question of an adequate supply of labor is for the moment predominant. If an adequate supply be not forthcoming, then the only possible solution would appear to be the employment of such machinery as will give the desired results, with a less expenditure of the labor at present available. Hence it is that the possibilities attending the intelligent use of the small oil or gas farm tractor has become of economic interest and importance.

Up to within the last few years, the aim of the manufacturer of farm implements has been the production of horse-drawn implements, requiring the attendance of one man, which would in one day do more work than could be done by the man using only manual labor. Implements such as mowing machines have replaced the scythes, harvesters have replaced the sickles, raking machines the hand rakes, hay loaders the pitch forks, etc., etc. The saving in man power thus made was largs, and as time passed, was greatly increased through the perfecting and through the increase in the size and capacity of the machines. until the limits of horse power traction in each case, would seem to have been reached. At one time it was usual not to hitch up more than a pair of horses to a machine. Later on three horses to a machine became common. Lately to certain machines, four horses have been hitched. These, for Canadian conditions, seem to be the limit, although in the veteran states of the United States, teams of six horses, driven by one man, are used for plowing.

The long winters of Canada are a hand cap to horse traction, through the impossibility of providing remunerative or useful work for all the horses during the winter months. Even with this handicap, much may be said in favor of horse traction. Yet certain disabilities that cannot be removed, because they are caused by the "nature of the beast," limit its profitable employment. As the binder harvester is the perfected successor to the reaping hook, so will the oil-gas farm tractor be, within certain easily defined limitations, the successor to the horse in agricultural work.

A Practical Machine.

It is not claimed that the oil-gas farm tractor now being produced is a perfected machine, but the best examples, although not perfected, have become of economic importance, and if they could be purchased at a reasonable cost, would become of immense industrial consequence. Hence it is that the action of the Dominion Minister of Finance, in refusing to remove the tariff on farm tractors, is so unexplicable. Nearly one-third of the present selling price of a tractor in Canada is duty paid to the Dominion Government. It would

The Oil-Gas Farm Tractor, Its Advantages and Possibilities

By LOUIS SIMPSON.

appear as if the Minister of Finance thought less of the possible starvation of the human race than of squeezing out of Canadian farmers an extravagant import duty.

No wise man will adopt a new method or replace a method long in use by a new one, unless he be entirely satisfied that the new method is preferable or that its adoption will conduce to his profit or well being. To be so satisfied, it is necessary to compare the merits and demerits of the two. Certain conditions peculiar to the practice of agriculture, make an intelligent yet correct comparison of the comparative costs of horse and motor traction for agricultural purposes a matter of considerable difficulty. The quality and depth of soil vary so greatly, the methods now practiced of plowing and cultivating are often so. widely a.ferent, the character of the country farmed is so various, that it is impossible to make comparisons that apply to all the several possible existent conditions. Therefore, the comparison herein made, will be confined to the plowing and cultivation of land composed of heavy loam with

a good depth of soil, free from stumps and rocks, fairly well drained and not hilly, such land to be worked for crops of four-year rotation, the labor used being that of the farmer and of his family. There is no reason why an intelligent farmer, and a farmer intelligent enough to acquire a tractor will probably be intelligent enough to learn how to use it properly, should not drive his own tractor.

Horse Traction.

It is assumed that the farmer, first thing in the morning, feeds, waters and cleans his horses, also that he cleans the stable, all being done before breakfast. It is assumed that he plows with a team of four horses. The above mentioned chores will require at least one hour. To harness the four horses, drive them to the field to be plowed and hitch them to the plow, will consume the better part of half an hour, so that it is safe to assume that the farmer works one and one-half hours before plowing commences. After plowing four hours, the horses are driven back to the stable, and are given hay and water, and afterwards a feed of oats. The horses are then driven back to the field, are re-hitched to the plow and draw the plow for four hours more. The time occupied in going from field to stable, from stable to field-in feeding and in re-hitching, will exceed half an hour. At night the teams are unhitched, are driven to the stable, are unharnessed, are rubbed down, fed and watered, the whole occupying more than one and a half hours, so that for eight hours of plowing the farmer works from 111/2 to 12 hours, eight hours of which is work of a most arduous description. But the horses do not work the whole eight hours, because, whilst plowing, it is usual to give the horses a rest at the end of each half hour. If this rest be five m'nutes, then from the eight hours apparently spent in plowing, no less than over one hour will have to be deducted for rests, leaving the actual plowing done in a full day's work less than seven hours. Yet the farmer works 12 hours,

It is true that when only three horses are used instead of four horses, the time lost in feeding, watering, cleaning, harnessing and hitching up will be lessened, but it has been advanced that an average three-horse team cannot plow sod, as it should be plowed, for eight hours per day, even with rest stops, and keep in condition. Either the quality of the plowing suffers or else the horses suffer. Corroborating this statement, the following extract from a publication of the Dominion Department of Agriculture is quoted: "More horse power is necessary for the use of larger machinery, which in turn does farm work more thoroughly and at a lower cost per acre or per ton crop. More horses, heavier horses and horses in better condition, all through the working season, will lower cost production."

Farmers appreciate the difference in the time (Continued on page 6.)



In the Hands of the Farmer.

F the war lasts beyond this summer, it will be the American farmer who will win or lose the war, who will over-come militarism and autocracy, or allow them to spread and control the world,

ourselves included.

This is no fancful picture, but sober fact. Many a man will make light of it until he comes to think it over, but I until he comes to think he over, but venture to say that few will treat it lightly after careful thought. It is no more impossible than the great war itself appeared to be, only a few days before

It is true that we can greatly increase the available food supply out of grain now used in making liquors, and by reducing household waste. But when these ducing nousehold waste. But when these two things are done, and done thoroughly, they will not be enough. The final decision will still rest in the hands of the men who raise our food in the first

The clear duty of the Nation is to The clear duty of the Nation is to guarantee the farmers a fair price for their crops when grown, and a reasonable supply of labor at harvest. The clear duty of the farmer is to raise food enough to win the war for democracy against Kalserism.

No such responsibility has ever rested on any class of men since the world be-gan as rests to-day on the farmers of America—Gifford Pinchot.

Prof. Geo. E. Day, O.A.C., Guelph, Ont. N only a very restricted area of this country can corn be grown satisfactorily as a grain crop, but in most parts of Ontario, and in large areas of other provinces, corn is one of the most highly valued of forage crops. Its large yield of feed, the palatability of the fodder it provides, and the opportunity it affords for checking the

growth of weeds, through cultivation, all tend to

give it a most important place in our agriculture. It is as a silage crop that corn especially commends itself to the farmers of this country, and even in the corn belt of the United States we find numerous silos coming into use. For years it has been a disputed point whether it is more profitable to put the whole corn plant into the silo or to first remove the ears, in districts where corn will mature sufficiently for husking, and feed the stalks separately. This matter was tested at both the Wisconsin and Vermont Experiment Stations, and at both stations results were decidedly in favor of putting the whole crop into

the silo instead of first removing the ears and

putting only the stalks in the silo, At the Ver-

mont Station it was found that one acre of green corn fodder, including ears, reduced to silage, was equal in feeding value to 1.26 acres of silage from stalks stripped of their ears and fed with the meal made by grinding the dry ear corn which was produced by the crop. So far, therefore, as the part of the crop which has to be fed at home is concerned, it would evidently be the part of wisdom to put the whole crop, ears and all, in to the silo instead of going to the trouble of first removing the ears.

Quality of Silage.

In our northern latitude the selection of suitable varieties of corn for silage becomes very important. We all know that the large, late maturing varieties of corn will give us a very much larger yield, per acre,

than the early maturing varieties, and the question is just where we should draw the line. That is to say, should we select a very early maturing variety, regardless of the fact that it is a light yielder, or should we sacrifice quality and take a very heavy yielding variety, which will not mature in our locality, or should we follow an intermediate course and secure a moderately large yield with a moderate degree of maturity. During the summer of 1915, we started some work along this line, and Mammoth Southern Sweet, White Cap Yellow Dent, and Longfellow varieties of corn were put in our silos, and their effect upon the milk yield of cows was tested. The summer of 1915 was wet and the corn was, in consequence, rather late in maturing. On the Mammoth Southern Sweet the ears were barely formed. White Cap was in the medium milk stage, and the Longfellow had reached the dough stage. The silage from the Mammoth Southern Sweet was very sour, and it took several days, as a rule, to get the cows to eat it satisfactorily after being fed other silage. The silage from both the other varieties was quite sa isfactory.

Two te s were made to compare Longfellow silage with that from the Mammoth Southern Sweet. In one of these tests Longfellow silage proved worth \$1.43 a ton more than that from Southern Sweet

Two tests were also made with White Cap silage against Southern Sweet silage. In one of these tests White Cap silage proved to be worth \$1.11 per ton more than the silage from the Southern Sweet, and in the other experiment the White Cap silage was worth \$1.64 per ton more than the silage from the Southern Sweet.

Both these comparisons were made on the basis of \$1.60 per hundred for milk, which is a reasonable valuation under prevailing circum-

So far as these tests are concerned, the evidence is strongly in favor of the intermediate variety, which gives a good quality of silage combined with a large yield. Apparently there is no advantage obtained by having the corn nearly mature at the time it is put in the silo. On the other hand, the very late variety produced such sour silage that it was entirely unsatisfactory, and the difference in yield did not compensate for the difference in quality.

ensilage, green clover, and green peas and oats, for the purpose above mentioned. Ensilage 30 pounds, and hay six pounds, form the daily roughage ration for this herd at all times. For a period in 1915, ensilage and hay were replaced by 60 pounds of green peas and oats, and for one period in 1916, all the hay and part of the ensilage were replaced by 20 pounds of green alfalfa, while during a second period a repetition of the 1915 experiment was carried on. The

results are	given	in the	follov	ving ta	d on.	The
Year	1	915	1916	Α.	191	c D
Succulent Ration Fed Milk produce	Ensil- age & hay	Green feed (peas	Ensil- age & hav	Ensil- age & gr. al- falfa	Ensil- age &	Green
per day, lb. Cost to vro- duce 100 lb.		30.7	26.7	26.2	25.8	21,
milk cents . Cost to pro-		68.2	63,3	67.4	69.9	103.8
fat, cents .		17.3	16.2	17.1	17.8	25.3

The above figures serve to show that in almost every case the cost of production of milk and butterfat was considerably higher when ensilage formed the sole ration. This is one point made in favor of ensilage. However, we have not taken into consideration the cost of putting these feeds before the cows.

In the case of ensilage the silo is filled the fall before at a comparatively low cost per ton, and the matter of throwing out the day's feed and giving it to the cows is a small item. On the other hand the preparation of a suitable rotation of green feed crops to ensure having such at all times, and the cutting and hauling of the same to the barn or feeding paddock, take much valuable time at busy seasons of the year, making another point in favor of the ensilage. Still another point in its favor is that it is always uniform in quality, whereas the quality of a green feed crop is uncertain, particularly in a season such as we have just experienced.

All the evidence then would seem to prove that

the most profitable form of succulence to use to supplement the pastures for dairy cattle is corn ensilage of the previous year's growth. Now is the time, therefore, to begin to prepare by all the means at your disposal, for a large crop of corn next year, and either fill your present sile to its utmost capacity or build another small one especially for summer feeding.

Sometimes we determine in our own minds that a certain cow or cows in our herd are giving very rich milk. We may be right, but by testing the milk we can have no doubt about it. A dairyman with a herd of 20 cows recently decided to put each cow in his herd to a test to determine which were not as profitable as the others. To his surprise he found that six out of the 20 cows were robber cows. He sold the robbers, reduced his feeding just that much, and after deducting the price of the feed saved, found that he was making a greater profit than ever before, with less work. The value of cow's milk varies so as to butter fat content, that the only way to be absolutely sure is to test.



A pure bred Clyde mare and her foal; both of a type always in demand. mare is owned on The Colony Farm, Essendale, B.C. Note the combination of quality and substance, marked on the colony farm, and the colony farm an

Supplementary Feeding on Pasture

Corn Silage Proves Its Worth

MANY of our best dairymen in Eastern as well as in Western Canada, have reached the conclusion that, especially on valuable and expensive land, it is unprofitable to follow the old practice of depending on pastures alone for the summer feeding of their dairy cows. The hot, dry summers and consequent burnt-up grass, the hordes of flies, and the realization of the fact that much more feed can be grown from the same land if cultivated, have all been factors forcing the above conclusion. The question then is, how to overcome these obstacles to the profitableness of our dairy industry.

During the past two summers, the experimental dairy herd at the Central Experimental Farm, Ottawa, has been working to solve just such a problem. This herd is stabled during the entire summer, making it possible to carry on a fairly conclusive test of the comparative value of corn

May 24, 19

Some Principle

T has been cle dairy cow than any oth she actually yie amount of feed. cost and greates

Notwithstandi milk and fat from ly low, being a and 130 pounds less than the tota less it has been better feeding an be easily increase an increased cos to 20 per cent.; profit. Such an necessity but the

Feedi The milk prod type is in propor the reserve of fe and flesh. As an been shown that maintenance ratio days yet produce with, however, a p and flesh. Again of proper type ha calving will not on more persistently period. It is clea of fat and flesh st type will be drawn be either given off of feeds consumed a larger proportion for milk production The dry cow rec

calf fitted to withst Allow the cow four ening. A pound of period is worth as n of meal fed after the pasture, feed the dr roots and a grain ra

majority of dairy

calving is in poor

fitably, and cannot



A Dairy Farmer's Home in the Young Province of Alberta.

Red Deer, Alberta, is fast becoming a thriving dairy district. Around it are boated several of the best pure bred dairy herds of Western Canada. At H. Tribusch home is here illustrated, is one of the plane of the West.

The Feeding of the Dairy Cow

Some Principles and Explicit Directions—E. S. Archibald, B.A., B.S.A., Com. Animal Husbandman

IT has been clearly demonstrated that the good dairy cow is a more economical producer than any other farm animal. Not only does she actually yield more product from a given amount of feed, but she does this at the least cost and greatest profit.

Notwithstanding these facts the production of milk and fat from the average cow is exceedingly low, being approximately 3,800 pounds milk and 130 pounds fat per annum which in value is less than the total cost of production. Nevertheless it has been clearly demonstrated that by better feeding and management this average may be easily increased from 30 to 80 per cent. with an increased cost in feed and labor of only 10 to 20 per cent; the margin would be largely profit. Such an increase is not only a financial necessity but the patriotic duty of every dairy farmer.

Feeding the Dairy Cow.

The milk produced by a dairy cow of proper type is in proportion to feeds consumed plus the reserve of feed stored in the body as fat and flesh. As an example of the latter it has been shown that fresh cows may be fed on a maintenance ration or even starved for several days yet produce milk in fairly large quantities with, however, a proport onal decrease of weight and flesh. Again it has been proven that cows of proper type having a store of flesh before calving will not only milk more heavily, but also more persistently during the succeeding milking period. It is clear, therefore, that this supply of fat and flesh stored on the dry cow of dairy type will be drawn upon when most needed, and be either given off as milk or so take the place of feeds consumed in supplying bodily needs that a larger proportion of these feeds may be utilized for milk production.

The dry cow receives little attention from the majority of dairy farmers. The thin cow at calving is in poor condition to make milk profitably, and cannot produce the rugged, healthy galf fitted to withstand the n any calf allments. Allow the cow four to ten weeks before freshening. A pound of meal a day during this dry period is worth as much as two or three pounds of meal fed after the cow has freshened. On poor posture, feed the dry cow green feed, silage or roots and a grain ration, composed of two parts

of any two of the following meals: bran, ground oats, ground corn, ground barley, plus one part ground oil cake. To the thin cow feed 4 to 7 pounds daily! if the cow is in good flesh, give roughage as needed and 1 to 2 pounds daily of the above-mentioned grain mixture; if the cow is fat withhold the grain, but on the other hand do not sacrifice flesh or lose a thrifty condition.

Feeding at Calving.

Feeding the cow at calving requires special care, varying with the individuality of the animal. Be sure that the condition of the bowels is normal. Constitution at this time is apt to induce many troubles such as milk fever, caked udder, etc. After calving give a tepid drink*containing a handful of linseed oil meal per pail of water, etc. After calving rive a lower beautiful of the condition of the content of the condition of the condition

frequently brings on milk fever. On the fourth day start the dry meal ration consisting of four pounds equal parts bran and ground oats. Increase the quantity of grain and strength of the grain mixture to a full grain ration on or about the sixteenth day aftur calving.

Feeding the Fresh Cow.

The feeds consumed by a dairy cow in milk are utilized for two purposes, viz., the manufacture of milk and the maintenance of the body. The cow weighing 1,000 pounds requires the equivalent of 10 pounds clover hay and 10 pounds oat straw or 35 to 40 pounds of mixed pasture grass for maintenance alone. To this must be added the feed to supply energy necessary to manufacture milk. Hence it is evident that the meagre feeding of cows in milk id duce little, if any, milk while liberal feeding with practicary the same maintenance requirements will induce heavy milk production.

It is evident that milk produced under the latter conditions will cost much less per gallon.

Rations for the Milch Cow in Stable.

The foundation principles of the successful selection of feeds and the feeding of dairy cattle depend upon the palatability, variety, nutrition and ease of digestion, and succulence of the ration given. All these essentials of a well balanced ration for economic production must be considered when raising or purchasing foodsfurfs.

The most economical ration must have as a basis cheap but rich nutritious farm grown roughages, such as clover or afalfa hay, ensilage and roots. The liberal feeding of meals is advisable to balance the roughage ration, and in addition, to provide the heavy milking cow with an extra supply of nutrients in a less bulky form.

A pound of grain when the cow is fresh is equivalent to several pounds of grain after the cow has decreased materially in her milk flow. Feed one pound of meal for every three and a half pounds milk produced; as her lactation period progresses decrease the meal gradually to one pound for every five pounds of milk produced. A fair average is one to four. Following are a number of well-balanced daily rations for the 1,000 pound dairy cow suitable to the individual needs of farmers throughout different parts of Canada.

No. 1.—Mixed hay 16 pounds, turnips or mangels 40 pounds, meal mixture composed of bran 4 parts, ground cats 2 parts, ground barley 2 parts, oil cake 1 part, cottonseed meal 1 part. This meal fed at the rate of one pound per 3½.

(Continued on page 8.)



In Older Ontario the Farm Homes Reflect Permanence and Solidarity.

This photo, showing the home of Wm. Bell, an extensive delignman, was secured by an editor of Farm and Dairy near Lenden, Ont. Homes such as this one are most numerous in the dairy sections of Eastern Canada and reflect the permanence and solidarity of the dairy industry.

(6)





CLEAN CULTIVATION PAYS

To keep corn free from weeds, and to keep the soil in c the corn a chance to make a good crop, use an Oliver cultivator. It de first-class work, and it is besides an easy machine to handle and guide. The shovels are held to even depth and steady movement, by the rakish slant at which they are set. The machine works in hard or soft ground, sand, or clay, and cultivates always to an even depth, which is regulated by handy levers. The Oliver is a pivot frame cultivator with a patented seat bar guide, an automatic frame balance and gangs that move paral-

The parallel gang movement is a great feature. It keeps the shovels square with the soil so that all the ground is cultivated to the full width of the gangs as they are moved from side to side. It makes it easy for the operator to dodge irregular hills without damaging them.

Oliver cultivators are made in two styles. The No. 1 is for rows 30

inches apart or wider, the No. 4 can be set to cultivate rows as narrow as 24 inches. Special attachments for cultivating other crops and for cutting thistles will be furnished on order.

International Harvester Company of Canada, Limited



T—Brandon, Man.; Calgary, Alta.; Edmonton, Alta.; Estevan, Sask.; Lethbridge, Alta.; N. Battleford, Sask.; Revina, Sask.; Saskatoon, Sask.; Winnipea, Man.; Yorkton, Sask. T—Hamilton, Ont.; London, Ont.; Montreal, Que.; Ottawa, Ont.; Quebec, Que.; St. John, N. B.



Oil Gas Farm Tractor Its Advantages, etc.

and labor required when plowing land calculate the cost of each operation: of different qualities of soil or which possess different physical conditions. Furmers, however, have been conten Farmers, nowever, have been content to recognize that a certain quality of land is hard to plow, whilst another quality is easily plowed. The employ-ment of oli and gas tractors has compelled a more particular study of this most important question, and certain data has been formulated. This data may not only be of practical use to may not only be of practical use to farmers, but may become of great educational value. When plowing, the power required is governed by the following factors: Physical condition of the soil; width of cut taken; depth of cut taken; speed at which plow operates; whether ground plowed is level or otherwise. The influence of the whost and the soil is the physical condition of the soil is well indicated by the following table:

Draft per Square Inch of Cross

	Sec	ti	0	n	ì	0	ť		F	ú	ır	r	ø	٧	V.			
Sandy	soil	a	n	ď	4	20)1	1	ı	8	ıt	u	ú	ì	1	e	3	lbs.
Wheat																		
Grass	sod				Ĭ,				į,								6	lbs.
Clover	sod						Ç					í					7	lbs.
Clay s	od .						ı	ì							Ú		8	1bs.

Draw Pull of Different Sizes of Tractors. 8-16 tractor 1,800 lbs. 2,160 lbs. 19.95 20-40 3,600 lbs.

Acres Plowed per Day of 10 !fours by a One-Bottom Plow Oper-

ating at Speeds Stated. 1.87 miles per hour . . 2.64 acres. 2.00 " . . 2.82 acres. 2.18 " . . 3.07 acres. 2.40 " " .. 3.38 acres.

If plow has more than one bottom. multiply the acres by the number of

The next table shows the divisions to find number of 14-inch bottoms any size of tractor can draw operating at

two miles per hour on the level;
To ascertain the number of 14-inch bottoms any tractor will draw at two Section of Furrow.

Sandy soil and corn stubile 3 lbs.

Wheat stubble 3 lbs.

Wheat stubble 4 lbs.

Graws sod 6 lbs.

Clover sod 7 lbs.

Clay sod 8 lbs.

This shows that all other conditions at the driven in grace the divisor given in square being the same, it takes twice the specific of the driven given in square power to plow grass sod as it does tractor has a draw pull of 1.440. Clocorn stubile, and twice the power to ver sod plowed four inches deep gives plow clay sod as it does wheat stubble, a divisor of \$392. Therefore, 1.440

Number of 14 Inch Bottoms.

Draft per					
Kind of soil. sq. inch	4" cut.	5" cut.	6" out.	7" cut.	8" cut.
Corn stubble 3	168	210	252	294	336
Wheat stubble . 4	224	280	336	392	448
Grass sod 6	336	420	504	588	672
Clover sod 7	392	490	588	686	784
Clay sod 8	448	560	672	784	896

which takes 33 1-3 per cent. more to

plow than corn stubble The cross section of furrow is governed by the width and depth of the cut, and is ascertained by multiplying the width of the bottom by the depth times the power called for by old-time plowing. It is easily understood how, when farmers had to plow a hard field, such a field was almost certain to be plowed shallow. The width of the bottom in the past with horse traction was largely governed by the strength of the horses available. If quality of plowing was the governing factor, the width of the bottom used would be reduced to that at which the team could plow the desired depth upon the most difficult Thus the horses might be overworked when operating under arduous conditions, and yet very much underworked when operating under more favorable conditions, and this even when some judgment was used as to the speed at which the plow would be operated under the more favorable conditions.

Depth of Plowing-

By tractor plowing—when well understood and arranged, it is possible to plow eight inches or more deep and yet when the plowing is completed, to leave the sod and the manure not more than four inches below the surface of the ground. The sod and manure may be caused to be like meat, lying between two thicknesses of bread in a sandwich, with a three or four-inch Saski, Psaski, Psakakaon, Saski, Winnipegi, Man, Washi, Winnipegi, Washi, Saski, Psaski, Psaski, Psaski, Winnipegi, Washi, Saski, Psaski, Winnipegi, Washi, Washi, Yorkton, Saski.

EAST Ottawa, Ont.; Questee, Quest St. Jehn, N. B.

When You Write---Mention Farm and Dairy

Sandwach, with a three or four-inch no depreciation. This may be the case thickness of plowed earth above and in rare instances, but certainly is not thickness of plowed earth above and in rare instances, were the time, cost and expower per bottoms used. Each farmer, must of suit would be shown. It is probable nocessity determine for himself the depth of cut list and will stand. The consumed by a team of four borses following tables will enable him to (Concluded on page 10.)

divided by 392 equals 3.67. fore, an 8-16 tractor will easily operate a gang of three 14-inch bottoms. For each per cent. of incline in the ground, add 10 per cent to the divisor, so that if the ground inclines one per the wyun of the bottom by the depth so that if the ground inclines one per of the cut. In old days it was usual to cent. (one foot in 100), 1440 will be use an eight-inch bottom and to plow divided by 392 plus 39, or 431, giving four inches deep. The section, there. 3.144nch bottoms. With a two per fore, would be 8 x 4, which equals 32 cent. incline, 1,440 will be divided by square inches. A 144-inch bottom at 70, giving three 144-inch bottoms. But plowing eight inches deep, would be when the incline exceeds two per cent.

> 8.46 Acres a Day. By referring to the second table it will be seen that the 8-16 tractor will plow per day of 10 hours, drawing three 14-inch bottoms, 8.4½ acres, and it should be noted that the man driving could plow these nearly eight and one-half acres for less bodily fatigue than would be experienced were he to plow two acres walking behind a walking plow. As it has been seen, the farmer would have to work 12 hours to accomplish such a day's work, nours to accomplish such a day's work,
> In the same time, working with a tractor, and with far less fatigue, he could
> have plowed 10% acres. Nor must it
> be forgotten that, whilst it requires a
> man of good bodily strength to follow a walking plow for a full day's plowing, it is possible for a youth or an aged man to drive a tractor.

> Were the Dominion Government to place the farm tractor upon the free list, as has been asked, a farm tractor, 8-16 size, would not cost more than the present value of a four-horse team. The interest charge upon the outlay would, therefore, be the same. The depreciation charge is less easy to compare. Some farmers claim that by raising colts and by horse dealing their investment in horse flesh suffers

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May 24, 191

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drivin drive is not does i

T gets ti the ch friend. ing up





Save the Horses for Farm Work



HE average farmer has enough work for his horses right on the farm. He can ill spare them to pull a buggy or a phaeton. And his own time is valuable, too. With farm labor so scarce, he cannot afford to spend half a day or a day to drive a horse to town and back, when he can do it in an hour or two in a Ford.

Costs Less

A Ford car soon pays for itself in the time it saves the busy farmer, costs less to run than a horse. It doesn't eat its head off when idle.

Mr. S. M. Smith, of Holstein, Ont., says: "I can run my Ford car more miles with less expense than a horse." His experience is typical of thousands of others.

Mr. W. A. Fallin, of Vermillion, Alberta, states that he has driven his Ford more than 13,000 miles over muddy roads, prairies and fields in every kind of weather. His entire maintenance expense for three years, outside of one set of rear tires has been only \$3.35.

With the cost of running a Ford less than driving a horse, it doesn't seem good business to drive a horse to town and tire him out so that he is not fit for work on the farm the next day, now does it?

Never Tired

That's the great beauty of a Ford! It never gets tired. It whirls you to town and back, or takes the children to school, or your wife to visit a friend, 15 miles down the line, without any slowing up for breath or any urging with a whip. You don't have to say "gid-dap" to a Ford. And as for hills, well, it scurries over them like a squirrel climbs a tree.

Easy to Drive

It is as easy to drive a Ford as to drive a horse. It is just the car for country service. Narrow roads or sharp turns do not bother it. It can turn completely around in a very little larger space than a horse and buggy. It is not afraid of a traction engine, a street car, a train or another motor car. It never "shies." It stands without hitching.

The initial cost of a Ford is small—\$495 for the touring car. If you care to sell it at the end of one year, you will find many buyers who will offer you the first price, less \$125. Consider, therefore, how much pleasure you can have in a year for \$125; how many hours of tedious travel, and how much horseflesh you can save. Don't you think it is a good "buy"?

No progressive farmer can afford not to own a Ford. The more you look into this, and think it over, the more you will realize that it is so.



Touring Car - \$495 Runabout - \$475

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Ford Motor Company of Canada, Limited

FORD - - ONTARIO

(8)

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is Durable, Sanitary and Time Saving

THE stable fitted with TORONTO Stalls, Stanchions. Water Bowls and Litter Carriers is bright and airy—easy to keep in clean, sanitary condition-and so healthy and comfortable that the same animals will produce decide ily more milk and beef from the same amount of feed. Our Illustrated Catalogue on Stable Equipment tells all about the advantages of modern fittings. Write for it.

A Toronto Pumping Engine Ensures an Unfailing Water Supply

The man who has one of these wonderful little 1½ H.P. TORONTO Engines doesn't have to waste any time or do any worrying about his water supply. Simple, sturyd, slaways on the vis ready to start with a turn and pump away as long to the study to start with a turn and pump away as long to the study of the for Booklet and full information.

Ontario Wind Engine and Pump Co. Limited Dept. "D"
TORONTO and MONTREAL.



War Prices

are being quoted our Dairymen for their Dairy Products.

And with the increased demand and the higher prices you will all keep your "Milk Factories" working right up to the limit.

This, of course, doesn't necessarily mean that you, too, need be kept "on the jump" all

Here's the point-Let a

B-L-K

Mechanical Milker and a Simplex Cream Separator

help you take advantage of your

A 1,100-lb. SIMPLEX will sep A 1,100-lb. SIMPLEX will separate your milk with less work than 500-lb. machines of other makes, and one of the many big things in favor of the B-L-K is that the dairyman can easily reduce clean and Sanitary Miles. produce clean and Sanitary Milk in the ordinary dairy barn.

CLEAN MILK MEANS A CON-STANT DEMAND.

We'll gladly give you an esti-mate of just what it will cost you to put in a B-L-K Milking Mato put in a B-L-K Milking Ma-chine to save you all the old-time hard work of milking your cows. Send us rough plan of your stable and tell us how many cows you

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DEAL WITH Farm & Dairy's Advertisers

FEEDERS CORNER Conducted by E. S. Archibald.

Feeding Before Calving

T HE proper time to begin feeding a dairy cow is six or eight week, before calving, and practical dairymen agree that this preparation dairymen agree that this preparation has more to do with the amount of milk and butter fat which a cow pro-duces during the lactation period than does the feeding during any other

For cows calving during the summer For cows calving during the summer or early fail most dalrymen like to have a small pesture away from the herd but with an abundance of grass, and, in addition, the form singe, and suitable grain mixture. Corn singe, with clover or alfalfa hay and a limit, with clover or alfalfa hay and a limit, with clover or alfalfa hay and a limit. ed grain ration of three parts ground oats, two parts of bran and one part of oil meal is especially good for cowa calving during winter or early spring.

After calving the cows should be brought slowly up to full feed and thereby steadily to a higher produc-tion.—H: H. Kildee, University Farm, St. Paul, Minn.

A Summer Grain Ration

Will be milking twelle cown this summer. They are grade Helsummer. They are grade He

Whether or not it is profitable to feed grains or meal feeds to cows on pasture depends largely on the price pasture depends largely on the price of the grains and the character of pas-ture. Many most successful dairymen find it profitable to feed a light supply of grain when cows are first put on pasture, and this grain, composed of a mixture of crushed oats and cotton-seed meal, or crushed oats, crushed seed meal, or crushed oats, crushed barley and peas. These feeds have a tendency to counterbalance the laxa-tive character of early grass. Gener-ally speaking, it pays the farmer to feed some meals during the whole pasture season, even though it amounts to only one pound per day, for the cows may be brought to the barns for milkmay be brought to the barns for milk-ing with very much less labor and trouble. As the pasture season ad-vances and pasture becomes of poorer quality, grain feeding up to five or six pounds of meal a day may be found profitable unless the green feed used for supplementing pasture is of very good quality. At the present price of meals I would not advise feeding grain during the early pasture season. in an average year it is likely that he fore the pastures become poor, meal values, particularly of such concen-trates as cottonseed meal, may be materially reduced, hence grain feeding during the months of July and August may yet be profitable.—E.S.A.

Silo for Six Cows

JILO 1or JIX COWS

Will. It have to built a sail for a bed of alx cows? We would like to feel considered the pear round, but feel centaines all the year round, but feel centaines all the year round, weather this wha day. During the cold weather this wha day. During the cold weather the year of year of year of year of year of year of year.

I would strongly advise the farmer from Halton County to erect a silo, even for such a small herd as six

A sile 10 feet in diameter and cows. A sile 10 feet in diameter and 20 feet in height will contain approxi-mately 30 tons of core ensilage. This would be sufficient for six cows fed at the rate of 30 lbs. aday throughout the year. Building this sile on the bank side of the barn and excavating bank side of the barn and excavating the foundation of this allo to the level of the stable floor would use doubtedly keep the ensliges for sum-mer feeding considerably cooler than though the silo were all other ground levels. At the same time, other things hears are the sum of the stable stable stable stable stable being small this. being equal, this arrangement will be found more convenient. Whether on the bank side or not it is preferable the bank side or not it is preferable that the sile be placed on the north ex-posure of the barn. It will be un-necessary to put in a false roof to keep the emsilage cool, for with this diameter of sile sufficient will be taken off each day to keep the ensilage fresh.—E.S.A.

The Feeding of Dairy Cows

(Continued from page 5.)

pounds of milk produced.

pounds of milk produced.

No. 2.—Clover or alfalfa hay 10
pounds, mangels or turnips 20 pounds,
oat straw 10 pounds, meal mixture
composed of bran five parts, ground
oats two parts, linseed o'l meal three parts, fed at the rate of one pound per three and one-half pounds of milk producod

duced.

No. 3.—Clover hay 12 pounds, corn
ensilage 30 pounds, meal mixture composed of bran seven parts, ground oats
seven parts, dried browers' grains foun,
parts, cottonseed meal two parts, fed
at the rate of one pound per three
pounds of milk produced.

pounds of mllk produced.

No. 4.—Mixed grass hay 10 pounds, oat straw or chaff-10 pounds, mangels or turnips 40 pounds, meal mixture composed of bran three parts, ground oats three parts, ground mat three parts, ground wheat two parts, for an around next three parts, ground wheat two parts, for an around next three parts. rate of one pound per three pounds of

m.lk produced.
No. 5.—Brome hay 10 pounds, cloves No. 5.—Brome hay 10 pounds, capter hay five pounds, oat straw or chaff 10 pounds, mangels or turnips 30 pounds, grain mixture composed of ground oats barley and wheat, equal parts, fed at the rate of one pound per three pounds

of milk produced. A plentiful supply of clean drinking water and salt is essential for greatest health and production.

Feeding on Pasture.

Over large areas of Canada the milk produced on grass will always be the cheapest. Hence the proper care of pasture is most essential. It cattle are allowed on the pasture only after the grass is from six to eight inches in height such pasture will yield most feed during the summer and will be est prepared to withstand drought

Natural pasture may be supplemented in the spring and fall by sowing a patch of fall rye, or during the sun. mer months by seeding an annual pasture mixture composed of oats and barley or a mixture of oats and clover. The most successful dairymen as a rule feed a limited grain ration even when the cows are on pasture. three parts, cottonseed one part, or bran two parts, ground oats two parts, and gluten or ground peas, one part, will give excellent results.

-Supplementing Pastures.

In the shortage of grass provide good solling crops. Supplements to pasture are peas and oats seeded at different dates, second cut clover, corn and all turnips fed with tops as pulled. Summer silage, if available, is both superior to and cheaper than

"I. enjoy Farm and Dairy, I think it stands among the A1 papers. I trust that this year your business exceeds your greatest hopes."—Mahlon E. Becksted, R.R. No. 1, Chesterville,

May 24, 19 HOR

Orchard

HE appling. I that comman ferior fruit g City peopl astic garden disease that A good garde either city o there are wie Berry patel

crops will be Beans, per should be pla ods to insure whole season.

Cucumbers, be started in window, then off and the ferred to the of frost is pas

Potal Prof. C. A. Zav

N normal yes good sized p from one ou In the average at Guelph in f average annua obtained from into pieces of Indicated bushels; one of half ounce, 10 ounce, 98 bush 79 bushels; an 37 bushels. Sn quently produce diseased tubera duced in Ont were exceptions were unusually growth being as weather conditi thoroughly man immature potat this particular toes, the size of smaller, might good advantage.

These could b as small as one and could be ple eight inches ap twelve to fiftee the rows. The the same day Where good se whole potatoes quarter to one-h might be planted receiving modera an advantag small potatoes for two or three to sprout before

The usual time for best results the 25th of May sod land. If it is land ready before the sod might be about four incl planted in every which the land mediately and th the soil around conserve moisture According to the acreage of p

A rather sandy growing potatoes, in available plant

HORTICULTURE

Orchard and Garden Notes

HE apple market is not promising. But in any year of plenty it is the well-grown, clean fruit that commands the market, while in-

that commands the market, while inferior fruit goes a-begging.
City people are becoming enhusiastic gardeners this spring. It is a
disease that should prove contagious.
A good garden is a valuable asset in
either city or country. And fer't it
astonishing how many farm homes
there are without a garden to the seaBerry patches planted out last season did not do well. Too dry. Fair
crops will be picked, however, if good
care is given this spring.

crops will be pleased, however, it good care is given this spring. Beans, peas, radish and lettuce should be planted at successive periods to insure a supply through the

Cucumbers, squash and melons may Cucumbers, squash and melons may be started in berry boxes in a sunny window, then the berry box broken off and the plants and earth trans-ferred to the garden when all danger of frost is past

Potato Production

Prof. C. A. Zavitz, O.A.C., Guelph, Ont.

N normal years, it is economy to cut good sized potatoes in sets varying from one ounce to two ounces each In the average of ten tests conducted In the average of ten tests conducted at Guelph in five years the following average annual yields per acre were obtained from good sized potatoes cut obtained from good sized potatoes cut into pieces of different weights as here indicated: two ounces, 150 bushels; one ounce, 120 bushels; one ounces, 150 bushes; one ounce, 139 bushes; one-half ounce, 109 bushels; one-quarter ounce, 98 bushels; one-eighth ounce, 79 bushels; and one-sixteenth ounce, 37 bushels. Small potatoes are fre-To bushels. Small potatoes are frequently produced from scrubs or from diseased tubers. The potatoes produced in Ontario in 1916, however, were exceptionally free from rot and were unusually small, owing to the growth being arrested by unfavorable weather conditions. Potatoes did not thoroughly nature last autumn and immature potatoes are inferior for table use, but make excellent seed. At this particular time, therefore, potatoes, the size of heafs eggs or even smaller, might be used for seed to good advantage. good advantage.

These could be cut into pieces even

These could be cut into pieces even as small as one-quartor use each and could be planted in rows twenty-cight inches apart, with rows. They should be planted the same day that they are cut. Where good seed is unbottainable, whole potatoes not more than one-quarter to one-half ounce in size might be planted with the prospect of receiving moderate returns. It would receiving moderate returns. It would be an advantage to spread out the small potatoes in a warm light room for two or three weeks to allow them to sprout before planting.

The usual time for planting potatoes for best results is from the 15th to the 25th of May. Potatoes do well on sod land. If it is impossible to get the land ready before the time mentioned, the sod might be plowed to a depth of about about four inches and the potatoes planted in every third furrow; after which the land could be rolled imediately and then harrowed to press the soil around the potatoes and to

conserve moisture.

According to present indications, the acreage of potatoes will be less than usual this year.

A rather sandy soil is preferable for growing potatoes, and it must be rich in available plant food.

Don't Worry

About the future Size of your herd

The capacity of the Standard cream separator is interchangeable. You take no chances on your future separator requirements. If later on you find that you need more cream separator capacity to take care of your larger herd, all you have to do is to replace the bowl and fittings-not the whole machine if you have the

Standard

This important, exclusive feature is certainly a money saver to dairymen and farmers. It costs a great deal less to interchange bowls with the Standard than to exchange the entire machine for a new one. Putting in the new bowl means no loss of efficiency, for the bowl is changed complete. The gearings of all Standard machines are made for 1,000 pound capacity. Think of the over-capacity advantages you have in 350 to 800 pound Standards!

All you have to do in order to change a 350 pound capacity machine into a 450, 600, 800 or 1,000 pound machine is to substitute your bowl for the different capacity bowl and attachments that you require. We accept the used bowl in exchange, less reasonable allowance for wear and tear. So you see you need not worry a minute about the size of machine you buy now,

Other features of the Standard are its low supply can, splash Interchangeable oiling
Bowl.
This bowl and insta oiling stem requiring attention only every three months of daily oiling, and its close skimming capacity; the casing lift right out—easy to re-place with a Stand gets all but one-tenth of a pound of aream per 1,000 pounds or milk skimmed, while other separators lose from half to a whole pound of cream. Write for free literature,



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When you go out in the evening, wear "Fleet Foot" White Shoes. There are plenty of different styles and shapes, for every occasion, day as well as eveningand they are far less expensive than leather boots.

Next time you go to town, be sure to see the "Fleet Foot" Shoes for summer wear.











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permanent cotors.

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in one, viz.: a monkey wrench, a pipe wronch, a screw driver, and three steel dies for threading or re-threading bolts, 5-16, 3-8 and 1-2 inch. This useful little outfit, given away absolutely free to any subscriber of Farm and Dairy who sends us one—only one paid in advance subscription. Send more than one, and you will get your choice of other premiums or a cash commission if desired.

SIRCULATION DEPARTMENT, FARM AND DAIRY, PETERBORO.



Fencing in the Leghorns

WE give the growing chickens the free range of the corn field. The laying flock, however, we would like to keep within bounds, especially at this time of the year when spring grains are being seeded. We appealed to one experienced poultryman for arising, and we ware hold that. appealed to one experienced poultry-man for advice, and we were bold that the only way to keep Leghorns in the yard was to fence it. Bellow the same well as at the sides. Then it occurs well as at the sides. Then it occurs, where they conducted that big esp-laying competition, with scores of pens of all breeds, they must have had same means of keeping the various some means of keeping the various pens separate and the Leghorns within bounds. Accordingly we wrote to Storrs, and for the benefit of Farm and Storrs, and for the benefit of Farm and Dairy readers who may be trying to solve the same problem, we publish the letter which we received from Mr. Leslie E. Card, of the Poultry Depart-

Leslie E. Card, of the Poultry Department. He writes as follows:
"I am glad to reply to your letter of the let lnst. with regard to the yarding of Leghorns. Our yards in the contest are 20 x 50 feet, one yard to each ten are 20 x 50 feet, one yard to each ten hens. This gives them considerable room, and they make very little trouble. The fences are six feet high, or nearly that, but the yards are not covered. When a bird porsists in flying over the fence, we clip the secondary feathers of one wing. If that is not sufficient, we clip the primaries also. Sometimes we reverse. primaries also. Sometimes we reverse the process and cut the primaries only. The clipped primaries do not show The clipped primaries do not show when the wing is folded in a natural when the wing is folded in a natural position. As to actual fencing methods that will hold Leghorns without clip-ping their wings, I am afraid we can-not help you."

"The Principles of Poultry House Construction, with General and Detailed Plans," is the title of a new bulletin issued by the Dominion Department of Agriculture. Mr. F. C. Elford, Dominion Poultry Husbandman, is the author, and in the 55 pages of which this publication consists, he has told with abundant illustrations how poulting on the property of the publication of the poultry on heart by housed to make the try can best be housed to make the birds good producers. The publication can be had free on application to the Publications Branch, Department of Agriculture, Ottawa,

The Oil-Gas Farm Tractor

(Continued from page 6.)

year. As a norse on works 1,000 hours per 5 days of eight hours, will total the ave the food for a team of four horses per working day is \$2.40. The cost per day for oil and gasoline should not exceed \$3, so that, elimin-ating all charges such as interest and depreciation, the cost per working day with a team of four horses would be with a team or rour horses would be \$2.40, and the result would be the plowing of less than four acres, whilst with the \$3.6 tractor, the cost would be from \$3 to \$4 per day of 12 hours, depending upon cost of oil and gaso-line, and the result would be the plow-ing of over 10 acres In both cases. ing of over 10 acres. In both cases the labor of one man is expended, but the labor gives a result two and onehalf times as great. It must not be forgotten that land properly cultivated will yield from 50 to 100 per cent. larger crops. What reasonable defence, therefore, can the Minister of Finance make for his refusal to make it possible for the farmers to do that which he has urged them to do, viz., increase the production of foodstuffs?



A FORTUNE IN POULT



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CALVES WANTED

Good dressed calves wanted from 100 to 150 lbs. each. Also large fåt hens, alive.

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Bran'ford Kerosene Engines



Those engines are the perfected product of years of study and experimentation with Internal Compensation Engines, and are a demonstration Engines, and are a demonstration Engines, and are a demonstration of the study of the st

GOOLD, SHAPLEY & MUIR CO., LTD. Brantford, Winnipeg, Regina, Calgary

ADVERTISE in these popular cot-umas, which others find so profitable— costs you only \$1.68 an inch.

May 24, 1 Ways

WO day tom of then the thing lacking feeding time silage would Some people, whereas, in se passed, the v is often said never truly m

so much as w We have an in the barn, a that we consistill have that anxious for s

used the last managed to f gone by, befo the stalk, was out much cont already laid acreage used production time the cient quantity ing of a second at the season

One thing in in feeding the of the sile this silage seemed cows ate it with to have more distinct than for hay. The silo of dairyman's best

Very few pla ple do not place season is the one season is the one ing this work, h showing just w plished by carefu ing to the plan. We have been

man with us for has proven him of how he has l done, along with of feeding, clean men driving the go up into the their horses. Ti is placed in a con to be loaded into field. By keepin program followed ferent implement position to be his trouble. The bee and horses is alway and numerous off count so much i making the most of We hired a me

some posts for a hard digging, and much brain work, responsibility place matical problem v sideration would time was worth much per hour is

Wayside Gleanings

The Empty Silo

WO days ago we scraped the bot-tom of our silo clean, and since

Wo days ago we scraped the bottom of our silo clean, and since tom of our silo clean, and since the silone the seems to be something lacking around the stables at the seding time. The true value of ensures of the silone that the silone th clent quantity to warrant the build-ing of a second ello, that can be opened

ing of a second ello, that can be opened at the season of the year from the other one becomes empty, when the other one becomes empty, when the content of the single impressed up to the most of the silo this year: Although the ensings seemed to be very sour, the cows tat it with a reliable, and seemed cows the twint a reliable, and seemed to the silone of the silo

Very few these are harder to fill than that of thore man. Most people do not phace are harder to fill than that of the first than than the first than the fi The Chore Man

ing to the plan.

We have been privileged to have a man with us for the last month who has proven himself to be an ideal has proven binnself to be an ideal one for this position. As an example of how he has kept everything moving, let me tell of a few hose done, along with the general color done, along with the general color feeding, cleaning stables, etc. The men driving the teams have never to go up into the loft to get hay for their horses. The oat-box is always kept filled with oats; the seed grain is placed in a convenient place, ready to be loaded into the waggon, or on to be loaded into the waggon, or or to be loaded into the waggon, or on the stone-boat, to be taken into the field. By keeping in touch with the program followed in the field, the different implements are placed in a position to be hitched on with Mittle trouble. The bedding for the cettie, and horses is always in a handy place, and numerous other little things that count as much in results in the count as much in results.

and horses is always in a hanny piace, and numerous other little things that count so much in rounding out and making the most of busy hours.

We bired a man for a day, to set some posts for a fence. It was not hard digeting, and it did not require hard digeting, and it did not require responsibility. We have not an attended to the control of the co

CANAD



A Kodak fits into farm life from the pleasure side, from the business side and as a recorder of the familiar events that are so full of interest—the sheep washing and shearing, the having and harvest scenes, threshing time, and apple picking.

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CIRCULATION STATEMENT.

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We suparantee that every advertiser in this issue is reliable to do this because the advertiser in the series of th

The Rural Publishing Company, Ltd. PETERBORO AND TORONTO

"Read not to contradict and to confute, nor to believe and take for granted, but to weigh and con-sider."—Bacon

Land Values the Leveller

THE united farmers of Canada, in endorsing those planks in their farmers' platform that call for tariff reduction on articles of farm production, were probably actuated most largely by the conviction that they are quite capable of successfully meeting the competition of the world. Such an actuating force, speaking as it does for the sturdy independence of the Canadian farmer, is commendable. As a matter of cold economics, however, the cost of production of staple farm products varies but little in one country, as compared with another, and foreign competition is scarcely to be feared. The price of land is the creat leveller that puts farmers in all countries on a parity.

The operation of this basic law is well illustrated in the results of farm surveys conducted by the United States Department of Agriculture. In that one country are found as giverse conditions of production as can very well be imagined. In the east farms that are rough and hilly are producing grain crops in competition with the wonderfully fertile prairie states of the West. And yet the labor incomes of the farmers are about the same in both cases. The equalizing factor is the price of land, the first being purchasable for \$25 an acre or less, and the latter running in many cases to \$200 an acre.

A few years ago the cheap lands and the splendid climate of the Argentine Republic were being constantly held up as a booby to the grain and beef farmers of both the United States and of Canada. The competition then threatened, if the tariff barriers were lowered, as they already have been in the United States, has not materialized. If land is cheap in the Argentine, it is because transportation is so difficult and expensive. If the transportation problem were to be solved, the land would increase in value to absorb to itself the seeming benefits of better transportation facilities, and Argentine farmers would be on the same competitive basis as before. In taking their stand for freer trade, our farmers are safe from destructive foreign competition. safer perhaps than they know.

What About These Titles?

RE we to have a titled aristocracy in Canada? The question is already before the public for discussion. A few weeks ago Mr. Joseph Martin, one of the few Canadianborn members of the British House of Commons. moved that no more titles should be conferred on Canadians, stating his belief that the Canadian people do not want an hereditary aristocracy saddled on them. The same question came up for discussion in the House only last week in connection with the debate on Senate reform. Mr. German started the discussion, and member after member, who followed him, condemned the conferring of titles of o. hereditary character on Canadian citizens. Practically every farm and labor organization in Canada has taken a similar

The men who made Canada were not men with titles. Rather were they men who fled from aristocracy ridden countries to establish free homes for themselves in a new world where democracy could find full play and men would be valued only because of their manly worth. It is the same spirit in their descendants to-day that is leading Canadians from one ocean to the other to protest against the importation of old world distinctions into our new world democracy. Canadians as a whole view with alarm the increasing number of hereditary titles held in Canada.

The True Basis of Prosperity

W HAT is the true basis of prosperity in agriculture? The renter with a short term lease looks on his farm as a machine from which to squeeze the largest possible immediate profit. The farm owner with the viewpoint of the true farmer, regards his farm as a preclous heritage for himself and his children. He will not willingly destroy its productiveness by cropping systems that take all and return nothing. With him live stock will always be popular. A couple of days ago we were chatting along this line with a farmer who is also a drover, and has, therefore, unusual chances to observe the farms of his neighbors. In our conversation we mentioned a young man who a few years ago purchased a run-down farm in Wellington Co., Ont., and proceeded to stock it to its capacity with dairy cows. "I can see an improvement in Archie's crops every year since he has taken the farm," remarked our drover friend.

"Archie" is laying the foundation for permanent prosperity, which in agriculture is always based on fertile soil; and in no way can soil fertility be increased and maintained so efficiently and profitably as with dairy cows.

The Cost of Milk Production

W HAT does it cost to produce one hundred pounds of milk? The question cannot be answered with exactitude. Extensive investigations, taking the form of a milk survey, might establish a general average which would be valuable in establishing the price of city milk, but such an average would be of little value to the individual dairyman in determining the profits from his own herd. The factors affecting production vary too greatly; and of these the most varying factor of all is the differing productions of different come

Results obtained in a recent investigation by the Chio Experiment Station illustrate the importance of good cows for an economical milk projuction. At that station it was found that with cov/s yielding 3,000 lbs. of milk a year it costs 6,2 cents to produce a quart of milk, four cents from 4.000 pound cows; 3.8 cents from 5,000 pound cows, and 3.2 cents from 6,000 pound cows. The difference in costs between the 3,000 and 6,000 pound cows was three cents, or about 48 per cent. These figures would seem to indicate that the most important step in reducing the cost of milk production, lies in improving the dairy herd. And here again we are back to the old, old question of cow testing and using only the best sires obtainable

Why We Farm

DAY or two ago in the barber shop we heard a farmer friend of ours confiding to one of his brethren of the soil just how much his farm had made for him the previous year. We do not remember the exact statement, but at the time it struck us as a satisfactory showing. When the barber heard the figures, however, he looked around his little shop with new appreciation. "Why," he exclaimed, "I make as much as that here, and I don't get up at five in the morning, either. Tell me, Mr. ---, why do you farm?"

The hearty laugh of the farmer was good to hear. "It's just the danged independence of the life," he said. "I am my own boss. I don't have to knuckle and kowtow to everyone who comes around the place, and there is no two by four limit to my workshop. In fact, I do pretty much as I please." With a whimsical smile he added, "That is, so long as I keep on the good side of the missus."

Yes, farming has its advantages in spite of the disabilities under which we labor. After all, where is there a better place to live than out in the open country, and where is there a more independent man than the home owning farmer?

Suppose

S UPPOSE you got on a street car and hung on by the side bar with one foot dangling in the air as we often see men doing in Chicago and New York.

Suppose that when you wedged yourself in between the bodies of women and tramped on other people's feet, you saw that nearly all the other seats were vacant.

Suppose that you learned that the man who got off at the last corner was holding all the seats vacant "for a rise in value." Wouldn't you think all the people were idiots to stand it?

But when you wiggled off the car you would find the people jammed together in their homes in just the same way, because most of the sites were held vacant for a rise in value by some absentes

Then suppose someone told you that that was an evidence of prosperity and enterprise-who would be the idiot?-Bolton Hall.

In the last generation a brilliant American orator gained great fame by his lecture on "The Lost Arts." It is undoubtedly true that so many arts known to the ancients and lost in the de struction of empires have been rediscovered, that most moderns are ready to say, "There is nothing new under the sun." There have been many new adaptations of old ideas, however, until they have been quite made over. Agriculture has not fallen behind in this regard, and we should endeavor to try out every scheme that promises greater efficiency.

Farmers La

onus of proving to At a meeting of

cil of Agriculture by three delexates was discussed and appeal to the Gover in the law so as to proving that there on the railroad con the late Chief Just his death. Recently Act and this sugge proposed new act farmers' request an sary for the railwa reason of neglect it take proper precautilive stock from get road track before it claims for stock the

One feature of the which exception was farmers' delegation which, were it enacte mean that if a tran sponsible party were ers' gate open and le on the railroad and be er would have no red company. The farm this should be chan that farmers were w sponsible for damage own negligence, but i gence of others. The passing up and down a should be able to see open leading onto the

On behalf of the r claimed that farmers ately leave their gate their cattle might at tracks and then class tramp had been respondischief. In reply mischief. In reply pointed out that as far ceive the full value of when killed by trains, chance that farmers wo members of the rails eemed distinctly favor gestion of the farmers man asked that the f re-word the clause of th that would be satisfact This the farmers agree matter was left to be later setting of the com

The Telephone S At the last convention Farmers of Ontario a 1 passed protesting again of the Bell Telephone making an extra charge bers of independent phone lines, above its who use its long distance This matter came up for pefore the railway com House of Commons on morning of last week. Re of the Canadian Council and of The United Far tario were present to i necessary to take part is slon, owing to the fact the lindependent Telephotion were present in force very strong case for the lines not only on this strong that the lines and only on this strong that the lines and only on the lines and only on this strong that the lines and only on this strong that the lines and only on this strong that the lines and the lines are lines, not only on this pother points affecting the situation as it exists in the situation as i D. McKay, of Toro others made a particularly for the independent teleph The Independent showed as the Ontario Railway as

Farmers Lav Their Views Before Government (Continued from page 2.)

cause the law was so worded that the Board has power to compel local tele cause the law was so worded that the onus of proving that there had been no neglect rested on the farmer. At a meeting of the Canadian Coun-

At a meeting of the Canadian Coun-cil of Agriculture held in Winnipeg Farmers of Ontario were represented by three delegates, this legislation was discussed and it was decided to appeal to the Government for a change appeal to the Government for a change in the law so as to place the onus of proving that there had been neglect on the railroad company. Legislation of this kind had been recommended by the late Chief Justice Maybee before his death. Recently the Government his death. Recently the Government has been consolidating the Railway Act and this suggested amendment has been under consideration. The proposed new act complies with the farmers' request and makes it necessary for the railway company to es tablish that the damage was caused by tablish that the damage was caused by the Ontario Railwa reason of neglect by the farmer to Board power to app take proper precautions to keep his to be composed of live stock from getting on the rail- respective Boards road truck before it can secape paying such matters and claims for stock that may be killed force their rulings.

One feature of the amended Bill to which exception was taken by the Telephone Company to make a heavy farmers' delegation which, were it enacted into law, would mean that if a tramp or other irre-sponsible party were to leave a farmers' gate open and let his stock get on the railroad and be killed, the farmer would have no redress against the er would have no redress against the company. The farmers asked that this should be changed. They said that farmers were willing to be re-

ceive the full value of their animals tance when killed by trains, there was no the C chance that farmers would so act. The comm members of the railroad committee seemed distinctly favorable to the suggestion of the farmers and the chairgestion of the farmers and the chair. Committee, to be held this week. It man asked that the farmers should seems likely herefore, that these re-word the clause of the Act in a way points that have been at issue for that would be satisfactory to them, years between the independent lines. This the farmers agreed to do. The and the Bell Telephone Company will matter was left to be settled at a soon be in a fair way to be solved, later setting of the committee.

Grain Questions Discussed.

The Telephone Situation.

The Telephone Substation.

At the last convention of the United members of the delegation from the armers of Ontario a resolution was western provinces had an interview with Sir George E. Foster in reference protecting against the action with Sir George E. Foster in reference Farmers of Ontario a resolution was House of Commons on Wednesday morning of last week. Representatives of the Canadian Council of Agriculture a later issue of the Canadian Connect or Agriculture a nater insue.

and of The United Farmers of Ontario were present to represent the
farmers' interests but did not find it tant if is that the farmers of Canada necessary to take part in the discussion, owing to the fact that officers of the Independent Telephone Association were present in force and made a very strong case for the independent lines, not only on this point, but on other points affecting the telephone

phone systems in Ontario to connect phone systems in Ontario to connect up with each other on terms to be ad-justed by themselves and if necessary by the Board it has not the power to compel the Bell Telephone Company, which has a Dominion charter, to give connections to the Independents. While the Bell Company is giving good service to many Independent lines, the Independent have no assurance that when their present agreements expire the Bell Company will continue the Bell Company will continue the agreements on equally satisfactory terms. In some cases the Bell Company refused to give the independents any connections, and in other cases it has imposed terms that are considered onerous. The Independents asked that Parliament should give the Board of Dominion Railway Commissioners and the Ontario Railway and Municipal Board power to appoint a commission to be composed of members of their respective Boards to adjudicate such matters and with power to and

The Independents also pointed out that the present law enables the Bell charge for "compensation" when dependent companies are linked with its lines, in addition to which it makes a sur-charge for long distance connections in spite of the fact that the locals carry much business company. The farmers asked that its revenue thereby. The matter was this should be changed. They said discussed for several hours and ended that farmers were willing to be re-by the first that farmers were willing to be re-by the results of the farman of the Railway Common passing to the state of the farman of the Railway Common passing up and down all the time who pany and of the Independents to appassing up and down all the time who pany and of the Independents to appassing up and down all the time who pany and of the Independents to appassing up and down all the time who pany and of the Independents to appassing up and down all the time who pany and of the Independents to appassing up and down all the time who pany and of the Independents to appare the far and to the Bell lines and greatly increase should be able to see that gates left they could not come to some agreeopen leading onto the tracks were ment. This was done. Later, Farm and Dairy was indeed the seed of the railroads it was relephone Company had consented to claimed that farmers might delibertheir catile might atray onto the pendents to pass upon matters in distramp had been responsible for the mischief. In reply to this it was will be the seed of the railroads and that it was willmischief. In reply to this it was will be the seed of the railroads and that it was willmischief. In reply to this it was will be the seed of the surceasures for long disserves the full value of their animals and come to some agree. tance connections should be left for the Commission to deal with. The committee agreed to report effect to the members of the Railway Committee at a session of the Railway Committee, to be held this week.

Grain Questions Discussed.

possed processing processing processing processing processing processing processing an extra charge against mem-change in conditions in the west that making an extra charge against mem-change in conditions in the west that making an extra charge against mem-change in conditions in the west that photon lines, above the regular rates removal of the duty on grain passing; who use its long distance connections, between Canada and the United who use its long distance connections, between Canada and the United States. At the time of going to press passed protesting against the scales with SI George E. Poster in reference of the Bell Telephone Company in to provisions of the Grain Act and the States. At the time of going to press we had not heard what the result of the interview was, but will announce anything important relating to it in

tant it is that the farmers of Canada shall be better represented at the Capital when Parliament is in session. All manner of legislation affecting the interests of farmers is often dealt with there without any one represent ing the farmers' organizations being other points affecting the telephone present to warch the farmers' organizations being situation as it exists in Ontion. Mr. terests. The business interests seem to there made a particularly decrease performed independent elephone lines. The independent showed that where will be equally well represented at the outside Reilway and Municipal Capital.



NEW DE LAVAL CREAM SEPARATOR

THESE are the days when you are getting more milk in the pail, and with lutter-fat at its present high price you want to be dead sure that you are getting all the cream out of the pail.

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Here is tive most convincing kind of proof that the De Laval is the cleanest skimming machine:

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Why? Because they have found that it makes a difference of several thousand dollars a year to them whether a De Laval or some other make of machine is used. They simply can't afford to use any other machine.

This is proof of De Laval closer skim-This is proof of De Laval closer skim-ming that you can't afford to ignore. Even if you don't separate as much cream as the creameryman, you can't afford to waste it any more than he can.

Your local De Laval agent will be glad to let you try out a New De Laval on your own place. If you don't know the local agent, write to our nearest office for catalog or other information.



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May 24, 1917.

One evening, ab lady city missionary through China T stopped at one p There were so man that we had to was middle of the stre-tempted the sidewal door opened beside tumbled out a gre fighting, cursing mer our centre and kept nightmare memories lean, sneaking, ghe came creeping out to of garbage.

But most haunting memory of the your girls, sitting there, o

Earlier in the day I realization of a real door opened in wi ordinary wall, throng alley was seen, and our a poorly-dressed forci in, and soon were in the court. If was no good sized room, stor-rising on all four sid was alive with lines ments, not a single wi In one corner v of about seven, chopp a hammer. In er the led down to arartments was another child, a 1 was another child, a 1 ping with an axe. To the only way of obts light, for the people, conjecture, must be lift. It was for those the surroundings and there are the control of the contr

there and in China To services are held, ever midnight, by those who Christ and His Gospel to —I. H. N.

AMUSEMI Conducted by MARIO Playing the Old-I

Games LL serious minded | feeling that this work rather that view of the seriousness tion and the necessity effort in every direction, however, to bear in milaws of nature are not even when the nations are at war. In war-time of peace, all work and we surely affect the mind as the day follows the ni

There is a homely of which says: "You can't birds of sadness from flying head, but you can prevent stopping to build their ne stopping to build their ne hair." As a people we cheerful. There is pienty work to be done, includir work to be done, includir the farms and in the bat dens, and some of our lemust be sacrificed. But it young people must try it young people must try it without their accustomed without their accustomed be a mistake.

FARM HOMES



IFE is given to no one for a lasting possession o all for use. Lucretius.

Winning the Wilderness

(Continued from last week.)

S 1T down, madam. I'm pleased to meet you. Can it be of any service to you to-day?" he said with bluff cordiality.

"Yes, sir. I want to buy the quarter section lying southeast of us. It was the old Cloverdale Ranch once. It belongs to Champers & Co. now, the records show, and I want to get it. It was my Uncle Jim Shirley's first claim.

Darley Champers stared at the girl and said nothing.
"What do you ask for it?" Leigh in-

Still the real estate dealer was sil-

"Isn't it for sale? It is all weed-

"Lord, yes, it's for sale!" he broke

A sense of relief at this sudden opportunity, combined with the intense eatisfaction of getting even with Thomas Smith, overwhelmed him. Smith would rave at the sale to a Smith would rave at the sale to a Shirley, yet this sale had been de-manded. Champers had written Smith's name into too many docu-ments to need the owner's handwriting in this transaction. Smith would leave town in the evening. The whole thing was easy enough. While Leigh waited, the real humaneness of which Champers so often boasted found its

voice within him. "I'll sell it for sixteen hundred dollars if I can get two hundred down to-day and the rest in cash inside of two weeks. But I must close the bargain to-day, you understand."

He had fully meant to make it seven-teen hundred and fifty dollars. 14 was the unknown humane thing in him that cut off his own commission.

"It's worth it," he said to himself.
"Won't Thomas Smith, who's got no name to sign to a piece of paper, won't be just cuss when it's all did! it's worth my little loss just to get something dead on him. The tricky*hief!"

"I'll take it," Leigh said, a strange light glowing in her eyes and a firm line settling about her red lips.

Champers couldn't realize an hour later how it was all done, nor why with such a poor bargain for himself he should feel such satisfaction as he saw Leigh Shirley and Thaine Aydelot saw Leigh Shirley and Thaine Aydelot driving down the road toward Little Wolf together. Neither could he understand why the perfume of white Illac blossoms from the bush in the back yard of his office should seem back yard of his office should seem floweret this morning. He was not a flower. But he felt the two hundred dollars. But he felt the two hundred dollars. Hower fover, the new two numerics of good money in his pocket and chuckled as he forecasted the hour of Thomas Smith's discovery, "This is a shadier road than the one I came over this morning," Leigh

said as she and Thaine followed the old trail toward Little Wolf Creek.
"It's a little nearer, too, and you'll see by casting a glimpse westward that things are doing over Grass River way," Thaine replied. Leigh saw that a sullen delack cloud bank was heaving above the western heaving above the western

horizon and felt the heated air of the May afternoon.

"I don't like storms when I'm away from home," "Are you afraid, like Jo Bennington! She has the terrors over them. We

were out once when she nearly bank-rupted everything, she was so scared."

Thaine recalled a stormy night when
Jo had clung to his m to the danger

grown and hasn't been cultivated for of both of them and the frightened pears."

The tremor in the girl's voice reached the best spot in Darley Champers' like being blown away. I am glad I trade-hardened heart.

"No, I'm not afraid. I just don't trade-hardened heart."

happened to find you, to be blown alfalfa hay, and I need you more to about, too, if it's necessary," Leigh reduction of the state of the property of the prop You happened on what I managed you should, else that long clicus performance with Mademoiselle Rosella Gimpkello, famous bareback rider, had not been put on the sawdust this hot

What are you saying, Thaine Aydelot?" Leigh asked.

"You said last night you were com-ing over here to-day and that after you had come you might need my advice. Me for the place where my advice. Me for the place where my advice is needed ever, on land or water. Rosle's hand isn't fit to use yet. I knew that was a nasty glass cut, so I met her in the hall upstairs early this morning and persuaded her to come over to-day. It gave me the excuse I wanted—to get here by mere happening.

"And leave Mrs. Aydelot all the cleaning up to do. Humane son!"

"Oh, Jo stayed all night, and I stopped at Todd Stewart's place and per-suaded him to go down to help mother and Jo. It wasn't hard work to get

him persuaded, either."

"Aren't you jealous of Todd?" Leigh asked, with a demure curve of her lip,
"Ought I be? He hasn't anything I

ant," Thaine retorted.
"No, he's a farmer. Some folks

"No, he's a farmer. Some folks don't like farmer."
"I don't blame them." Thaine said thoughtessly. "I haven't much use for a farm nyeelf. But Leigh, am I an unnecessary evil? I really turned an unnecessary evil? I really turned "Rory Rumpus' and "rode a raw-boned "Rory Rumpus' and "rode a raw-boned racer" clear over here just to be ready to help you. I wish now I'd stayed home and dried the knives and forks home and dried the knives and forks and absona for my mammie." and spoons for my mammie

"Oh, Thaine, you are as good as-



Youthful Devotees of the Piscatorial Art.

Jacobs called the scary little twist wound down between high banks to a shadowy hollow leading out to the open trail by the willows along Big Wolf. At the break in the bank, open Wolf. At the break in the bank, open-ing a rough way down to the deep waters of Little Wolf, a draught of cool air ewept up refreshingly against their faces. Thaine flattened the buggy top under the shade of over-hanging trees and held the horse to the spot to enjoy the dispirful cool-ness. They had no such eeric picture to prejudice them against the place as to prejudice them against the place as the picture that haunted John Jacobs' mind here

"I've bought a ranch, Thaine; the quarter section that Uncle Jim entered in 1870," Leigh said calmly, "Alice Leigh Shirley, are you crazy?"

Thaine exclaimed.
"No, I'm safe and sane. But that's why I need your advice," Leigh answ-

Something in the girl's appealing voice and perfect confidence of friend-

ship, so unlike Jo Bennington's pout-ing demands and petty coquetry, came as a revelation and a sense of loss to Thaine. For he loved Jo. He was

Thaine. For he loved Jo. He was sure of that, cock-sure.

"It's this way," Leigh went on, "you know how Uncle Jim lost everything in the boom except his honor. He's helped everybody who needed help, and everybody likes him, I guess."

"I never knew anybody who didn't." Thaine agreed.

Thaine agreed.

"So many things, I needn't name them all, bad crops, bad faith on the part of others, bad luck and and faidement and bad health, for the have helped till he is ready to no house have helped till he is ready to no house, and Uncle Jim's only fifty-one. It's no time to quit till you're eighty in such a good old state as Kansas." Leigh asserted. "Only, big us he is, he's not a real strong man, and crumples down, where small nervy men stand up."

"Well lade landload bow can Led."

"Well, lady landlord, how can I ad-

"Well, lady lahdlord, now can I activise you? You are past advising. You have already bought," Thaine said.
"You can tell me how to pay for the ranch," Leigh declared calmly. "I bought of Darley Champers for six teen hundred dollars. I paid two hundred with the past down into your live head, saying red down just now. I've been saying it two years; since I left the high school at Careyville. Butter and eggs and chickens and some other things." She hesitated, and a dainty pink tint swept her cheek.

swept her check. Why should a girl be so deliciously fair with the bloom of summer on her checks and with little ringtess our limit in baby-gold hair about her temperand at her neck, and with such red lips sweet to kiss, and then put about herself a faint invisible something that should make the young man beside her blush that he would even think of being so rude as to try to kiss her.

"And you paid how much?" Thaine asked gravely.

"Two hundred dollars. I want to borrow fourteen hundred more and get it clear away from Darley Champ-ers. I'm sure with a ranch again, Uncle Jim will be able to win out." Leigh insisted.

"What's on it now?" Thaine asked.
"Just weeds and a million sunflowers. Enough to send Prince Quippi such a message he'd have to write back a real love letter to me." Leigh

replied.

"Leighlie, you can't do it. You might pay interest maybe, year in and year out, the gnawing, wearing interest. That's all you'd do even with (Continued on page 17.)

4, 1917.

more to-before."

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The Upward Look

The Father of All

WILL save them out of all their tasks be performed, dwelling places, wherein they have sinned, and will cleanse them: so Tagre is an am

shall they be my hope, and I will be their God.—@zekiel: 37:23. For years I have had a deep interest in the Bowery Missions in New York, but not until I was there and attended one of the meetings did I have any conception of the work that was being accomplished.

complished.

One evening, about ten, a young lady city missionary took me down through Ohine Town, where we there we have been as the particular mission that we had so, many drunken men that we had so that the mission of the street. In the very very slowly, then a little faster, then door opened beside us, brusidenly at the very slowly, then a little faster, then door opened beside us, brusidenly at the very slowly, then a little faster, then turn, and finally a full gallop. If there is music, the players should follow the time of the playing; if without the mission out they must watch the leader. At the particular that the signal from the leader at the particular that the signal from the leader at the particular that the signal from the leader at the particular that the signal from the leader at the particular that the signal from the leader at the particular that the signal from the leader at the signal at the signal from the leader at

the court, it was no larger than a good sized room, storey after storey, rising on all four sides. The space was alive with lines of tattered gar-ments, not a single white one among them. In one corner was a small boy of about seven, chopping wood with a hammer. In rrichter, where stops led down to ararments believe wound, was another child, a little girl, was another child, a little girl, ping with an axe. That space was the only way of obtaining air and light, for the people, one could but conjecture, must be living there. It was for those that lived under such surroundings and conditions, as there and in China Town, that those there and in China Town, that those In one corner was a small boy

such surrounaines and conditions, as there and in China Town, that those services are held, every night, until midnight, by those who long to bring Ohrist and His Gospel to these people.

AMUSEMENTS Conducted by MARION DALLAS

view of the seriousness of the situaview of the seriousness of the situa-tion and the necessity for patriotic effort in every direction. It is well, however, to bear in mind, that the

Play aids young and old in many Flay aids young and old in many ways. Never can men or women who would achieve real success, afford to dispense with play. The more our young people resort to play as a help in the performance of duty, patriotic or otherwise, the better will their ranks he performed.

Novelty Race.

Noverty race.

There is an amusing game, the novelty race, which goes very well with music. Boys and girls alternately stand behind one another, with hands placed on the shoulders of the player ahead. Then caps are made of their handkerchiefs, knotting the four ends. A time bell attached to a four ends. A tiny bell attached to a ribbon badge and fastened on with One evening, about ten, a young a small safety pin is given to each

Perhaps of all games this is the best, to break the ice at a party, especially if there are a few strangers among the crowd. The game is played in pantonime, there beins some chosen as ushers, some as choir samplers, the leader and a supplementation of the control of the cont chosen as ushers, some as choir members, the leader and a minister members, the leader and a minister—the rest being members of the con-cregation. When members of the con-gregation being members in the con-traction when the conference of the con-traction when the contraction of the con-traction of the contraction of the con-ing persons to their seats, doing it in as funny a manner as they can with-out laughing. The choir renders an anthem, going through all sorts of contortions to do so, and then the minister gives an address. As soon as anyone laughes an usher takes him out; minister gives an address. As soon as anyone laughs an usbor takes him out; and few there will be who remain in the church throughout the whole service. One is often surprised to see how full of fun some of the quiet ones are, and what things they can do to incite laughter while remaining sober themselves.

Aunt Eliza's Lost Her Hatchet. For this nonsense game, the more the merrier. It takes at least six or eight to get much fun out of it.

Playing the Old-Fashioned Games

A lat serious minded people have a such a recult this is a time for such a refugit and the first play-and work rather than play-and the result of the such a refugit well warranted, in player. The natichet? "Her hatchet "Her hatchet

The second player then turns to the next in line and announces that Aunt Eliza has lost her hatchet and the neighbor asks "her hatchet?" he in effort in every direction. It is well, however, to bear in mind, that the however, to bear in mind, that the however, to bear in mind, that the however, to be an in mind, that the however, to be a mind, and the laws of nature are not suspend the mind are at war. In war-time as in times goes and the mind and nerves, as the search of peace, all work and worry, will as a subject of the mind and nerves, as the search of the mind and nerves, as the search of the mind and nerves, as the search of the search of the mind and nerves, as the search of the search of

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Little Touches Worth While

E often feel, during the busy days on the farm, that we must serve the meals as simply as possible, not because we would not like to decorate the table and serve the dishes attractively, but simply because we haven't time. It is surpris ing, though, what a very small amount ing, though, what a very small amount of time it takes to add a touch here and there and what a difference it makes on the appearance of things. For instance, how long does it take to bring a nice flowering plant from the sunny south window and place it in a jardiniere on the table? Flowers aid so wonderfully in adding a finish-ing touch to the dining table that we should not neglect this work, which only takes a moment

In the early springtime apple th the early springtime app cherry blossoms make artistic quets, either for the dining table or living room. Later on, of course, we have other flowers, such as nasturtiums, sweet peas, asters, dahlias, etc.

How many of our Women Folk know that an effective and pretty decoration that an effective and pretty decoration for the dining table can be made with the homely carrot? We came across the suggestion recently. The idea is to cut off the stem end about half an inch thick when preparing the vege-table and save it. The sides may be trimmed to any shape desired, so long as the top from which the stem grows is not injured. Several of these are almost covered with water. This ver annost covered with water. This ves-sel can then be put in a fern dish and set on the table, the only attention required being to see that the chips do not become dry. The feathery sprays grow rapidly and if trimmed down to three or four shoots from each chip, a tall and graceful fern will be the result. This is surely a unique method of having a fern for the table.

Garnishing platters of meat and salads also adds very materially to the attractiveness of the table and require only a moment's work. By having parsley growing in both house and rarden we can have it always on hand.

These are little points which do not take up much time in the busy rou-tine and they are worth while.

Caring for the Range

OW many of us are masters in the art of caring for a range properly? Sometimes we have properly? Sometimes we have trouble with our range, it does not draw well, will not heat the oven evenly, or takes more fuel, we imagine, than should be required. The following hints from the Farm Journal are worthy of note and application:

The most important thing is to keep the range well cleaned out—top, sides and underneath—at the clean-out door familiarize yourself thoroughly with the uses and duties of the damper and different drafts, so you can obtain the heat and different temperatures necessary to cook and bake.

A chimney that is open to rain and snow permits the moisture to run down the flue, mix with the soot, and get into the back-flue of the range; this results in a mixture of the range; this results in a mixture of soot and moisture, which forms an acid ihut eats out the range flue, thus doing away with half its life.

A range is very often condemned be cause it will not draw well. As a rule upon investigation, you will find the flue clogged up with soot; this is a job for the men folk, although the job for the men folk, although the cleaning up, a not overly pleasant piece of work, generally falls upon the housewife. In some cases the soot may safely be burned out. Sometimes a tinner can correct the faulty draft, but not often.

Another common error in operating

a range is the filling up of the fire-box to the top. This means wasting fuel, ever-heating the range and burning the plates. This, in time, will warp the lids and make the top uneven. The the lus and make the top uneven. The best way is to use just enough fuel to keep the fire burning brightly—a fire-hox about half full. The air is drawn up through the fire, and as it be heated it mixes with the tresh fuelneated it mixes with the fresh fuel-gas, and what would be a black smoke is immediately ignited to a bright flame. This flame is burned and utilized and gives the oven the beat heat the fuel is capable of giving. Thus heat the fuel's capable of giving. Thus a little fuel given more frequently affords more heat, with a saving in many instances of at least one-chird in the fuel bill. When you understand the relative value of the damper and each draft, you can keep the temperature of your oven to any degree desired and for an indefinite period.

Try not to poke the fire from the Try not to pose the fire from the top; shake it with the shaker. See also that the ashes are not permitted to accumulate until they entirely fill the ash chamber, as they choke off the free circulation of air to the bottom of the grate.

It is safe to say that two or three minutes of time, now and then, in looking to the proper condition of the range, will save many a baking, not to speak of the housekeeper's valuable time and disposition

Furniture and Woodwork

AVE you ever noticed that your AVE you ever noticed that your furniture does not hurmonize with your woodwork! In the usual house the fact is quite noticeable. The common yellow pine woodwork with furniture of mahogany or wahuut is frequently seen. The only way to harmonize yellow pine with the dark brown mission furniture is to stain it about the same color. Green stained woodwork with brown furni-

stained woodwork with brown turns ture is not good. In the bedrooms the pine can be enameded cream and this makes a fine seiting for mahogany, walnut or fine setting for mahogany, walnut or painted furniture. In a colonial house the cream or white is used through out. It is a great mistake to put the hogany or old fashloned furniture against anything but white woodwork. Mahogany looks very badly if used with oak or yellow pine woodwork. And again, dark mission furniture does not corremond to mahogane wood. not correspond to mahogany wood-work, but is best with a brown.

Too many of our houses are fir shed Too many of our houses are fir shed in the natural-colored pine, and no furniture in the world will look we! with it. If we are building we can stain it, but if not, it sometimes must be endured. The only way to change it is to paint if or scrape the varulah off and refinish it.—Colorado Agricultural Columnia. ture! College.

A stout, baggage-laden old English gentleman was trying to make a hurried exit from a railway carriage. Ar the door he stumbled on the foot of a brawny Scot

"Hoots, toots, mon!" groaned the Highlander. "Canna ye look whaur ye're going? Hoot, mon, hoot!" The burdened traveller slammed the

door behind him and shouted through window: "Hoot yourself! I am a traveller, not an automobile."

In a patriotic rally in a western city recently a mixed audience was in attendance, when one of the speakers, pausing for a moment to let the effect of his words sink in, lowered his tone and asked impressively but quietly: What can be more sad than a man

without a country?
"A country without a man," replied a hard-featured, unmarried lady in the



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CRAMPSEY & KELLY



HOME

"Tay 24 1917

" Tam O'Shar

W are privil our Club, me turn." Not appeared in the H Fortune has God." Fortune has and below appears "My Mither" from Home Clubbers. Ty ten on Mothers' Da day in May, and exy sentiment which i many hearts on th "Tam O' Shanter" Home Club meetin "bide a wee."

Wha was it when I Wad greet in my so my glee, Sae patient, sae tene mas -Му М

Wha was it when I schule Wad help me my w tae fulfill, Taught me tae lo'e v shun ill?

-My Mi Frien's they hae comhae gaen, And sune they've fo

me alane: But the luve that the through daith's a

O! there's nae luve mortals that's gi Sae leal and sae true riven,

-Like M And when by His g bricht sun, The race is here fee tory won, Not mine be the mead

"Weel Done. -But Mit -"Tam

A Patriotic (

AN you find a sma Home Club for a For a long time I the outside looking i idea, I have decided to During the winter momuch of our spare tin the soldier boys. Now

come, who doesn't wi

every sunshiny minute Perhaps we can and be In planning my garder cided to have a "Red In it I shall plant veget." easily marketed at a greatest total proceeds to be de triotic purposes. I wone of our Home Club girls of and time for a Red Cross garden; and what about a

boys' potato plot?-"Sm Sometimes our clot badly spattered with much that they will not vanish inc. If there is a large of the clothes, wash first in then soak for five minute then soak for five minute then soak of ollution. Or overy useful for taking fru of table linen and will fruit stain from the hand fruit stain from the hand Sometimes our clot

4. 1917

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HOME CLUB

" Tam O'Shanter" Pays Us a Visit

W E are privileged in having in our Ckeb, members "of a poetic turn." Not long ago a poem appeared in the Home Club by "May Beirns," entitled "An Heritage from God." Fortune has abain favored us God." Fortune has again tayored us and below appears a splendid poem on "My Mither" from one of our Scotch "My Mither" from one of our Scotch the Clubbers. This poem was written on Mothers' Day, the second Sunday in May, and expresses fittingly the sentiment which is predominant in many hearts on that day. We hope "Tam O' Shanter" will drop into our Home Club meetings frequently and

Wha was it when I was a bairnie wee. Wad greet in my sorrow and lauch in my glee.

Sae patient, sae tender, sae loving tae

-My Mither

Wha was it when I was a laddle at schule Wad help me my wee bits o' trokes

tae fulfill, Taught me tae lo'e virtue and aye tae shun ill?

-My Mither

Frien's they hae come and frien's they

hae gaen, And sune they've forgotten and left

But the luve that through life and through daith's aye the same,
—Is Mither's.

O! there's nae luve on earth unto mortals that's given,
That sheds on life's pathway sae
muckle heaven,

Sae leal and sae true when a' else is riven,

-Like Mither's.

And when by His grace ayont the bricht sun, The race is here feenished, the vic-

-But Mither's -"Tam O' Shanter."

A Patriotic Garden

AN you find a small corner in the Home Club for a new member? For a long time I have been on For a long time I have been on the outside looking in, but being struck with what I consider a good idea, I have decided to pass it on.

During the winter months, we spent much of our spare time knitting for the saiding hours.

much of our spare time knitting for the soldier boys. Now that spring has come, who doesn't wish to spend every sunshiny minute out of doors? Perhaps we can and be patriotic too.

In planning my garden plot I've decided to have a "Red Cross Patch."
In it I shall plant vegetables or fruits in it is mail plant vegetables of truits easily marketed at a good price, the total proceeds to be devoted to patriotic purposes. I wonder how many of our Home Club girls can find space and time for a Red Cross patch in the garden; and what about a corner in the boys' potato plot?-"Smiler."

badly spattered with mud and we find badly spattered with mud and we find that they will not vanish with wash-ing. If there is a large mud stain on the clothes, wash first in the clothes, the clothes, wash first in the clothes of the coals for five minutes of the clothes, then soak for five minutes of the clothes, coalic acid solution. Ozalic acid solution is very useful for taking fruit stains of table lines and will also removes fruit stain from the hands. Winning the Wilderness

(Continued from page 14.) your hens and butter. Don't undertake the burden

"I've already done it," Leigh de-

"Throw it up. You can't make it," Throw it up. You can't make it,
Thaine urged.
"I know I can," Leigh maintained

stoutly

"You can't."

"I can."
"How?" Thaine queried hopelessly.
"If I can get the loan..."
"Which you can't." Thaine broke in.
"Any man on Grass River will tell
you the same, if you don't want to believe the word of an inteten-year-old

"Thaine, I must do something. Even Traine, I must do sometains. Even our home is mortgaged. Everything is slipping out from under us. You don't know what that means."

"My father and mother knew it over and over." Thaine's face was full of sympathy.

full of sympathy.

"And they won out. I'm not so foolish after all. When they came out
here, they took the prairies as Nature
had left them, grass-covered and waiting. I'm taking them as the boom left
them, wede covered and waiting. I'll
earn the interest myself and make the
land took the appropriate and I know see land pay the principal and I know ex-

"Tell me how," Thaine demanded.
"It's no dream. I got the idea out
of a Coburn book last winter," Leigh

replied.
"You mean the State Agricultural Report of Secretary Coburn? Funny place to hunt for inspiration; queer cospel, i'd say." Thaine declared. "Why didn't you go to the census report of 1899, or Radway? Ready Relief Almanac, or the Unabridged Dickers."

tionary?"
"All right, you despiser of small things. It was just an agricultural report full of tables and statistics and comparative values and things that I comparative values and things that I happened on one day when things were looking blackest, and right in the middle I found a page that Foster Dwight Cohurn must have put in just for me, I guess. There was a little sketch of an affalfa plant with its long good roots, and just one paragraph begond the state of the st tory won, side it with the title, "The Silent Sub-Not mine be the mead of the Malster's soiler."

That sounds well," Thaine observ

That sounds well," Thaine observed. He was listening eagerly in spite of his poking, and his mind was aler to the girl's project.

"Mr. Coburn said." Leigh went on, that there are some silent subsollers that do their work with ease and as effectually as any plow ever hitched, and the great one of these is alfalfa; that it is a reservoir of wealth that takes away the fear of protest and overdraft."

"Well and what it Coburnis in plants in the second of the second of the second over the second of the second over the second

"Well, and what if Coburn is right?"
Thaine queried.

"Listen, now. I planned how I'd ret back that old claim of Uncle Jim's I planned how I'd how I'd pay some money down and borrow the rest, and begin seeding it to alfalfa. Then I'll churn and feed to alfalfa. Then I'll churn and feed chickens and make little sketches of water lilles. maybe, and pay the interest and let the alfalfa pay off the principal. I haven't any father or mother. Theline; Uncle Jim is all I have. He haart always been successful in business ventures, but he's always been honest. He bas nothing to blueh for, nothing to keep hidden. I know we'll wis now, for that writing of Poeter Dwischt Coburn's is true. Oer live to discourase me. Thaine," Don't try to discourage me, Thaine,' she looked up with shiping eyes.

she looked up with shining eyes.
"You are a silent little subsoiler
vourself, Leish, doing your work effectually. Of course you'll win, you
brave girl. I what it was a different
kind of work, though."

A low peal of thunder rolled up
from the darkening horizon, and the

(Continued on page 20.)

The Uncertainty

of Life

"Die we certainly must and that, too, without being certain whether it may not be on this very day."—CICERO.

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THEILE are three striking characters of the showless of the striking characters of the striking characters are not stated as color, pockets and ing and among the striking characters are not strictly up to the minute unless they are quite large and the embroidery material on which it is worked.

Separate skirts show stripes, checke, and the special color of the strictly up to the material on which it is worked.

Separate skirts show stripes, checke, and the special color of the strictly of the strictly of the strictly are appealed popular and across the special popular and across the special popular and six stripes, stripes, stripes, showledge and silk, slike stripes are appealed popular and series are stripes, str

May 24, 1917

The Make

Butter and Cheer ited to send cont spartment, to as natters relating to and to suggest sub

New Dairy Co HE position of THE position of sioner for the toba has been mition of Mr. L. A. that place. Mr. Gib 14 years in the Car previous to that was green in Manager previous to that was ger in Eastern Cans Mr. Gébson knows eve in Manitoba, through with the Manitoba leation, of which he He also acted as cre in the province.

Mr. John A. McDo

his long connection branch of Saskatcher Manitoba dairy branc tory instructor and in years' experience, and sant with the Western and butter grading.

The Cheese S THE Secretary of Cheese Board is letter from Prof. Rud Dairy Commissioner, a lot of misapprehens tion with the appointm mission to fix a price of the Canadian chee be purchased in its e Imperial Government, that the buyers have clusion that 22½ cents basis for the season of basis for the season of a figure, it is though acceptable to the prod-looking for fully five count. Prof. Ruddick, ber of the Commission, matter is still in the at an he does until feath. can be done until furthe ernment. There have rumors and so much ron the subject that P deems it advisable to ment regarding the pre

The matter was fi last October, when it was that the proper time t arrangements was betw of January and the end during which period the in Canada was less activ

time during the year.
"Nothing was heard ountil recently, when it that the British Board of

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111 Front St. East, T

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The Makers' Corner

Butter and Cheese Makers are in vited to send contributions to thi department, to ask questions of matters relating to cheese making and to suggest subjects for discus

New Dairy Commissioner

New Dairy Commissioner

The position of Dairy Commissioner for the Province of Manistoner for the Province of Manistoner for the Brown to occupy that place. Mr. Gibson to occupy that place. Mr. Gibson has been for 14 years in the Canadian West, and previous to that was a factory manager in Ebaston Canada for 15 years. Mr. Gibson knows every butter factory in Manifoba, through his connection with the Manistoba Dairymen's Association, of which ha was acceptant. ciation, of which he was secretary. He also acted as creamery inspector

a lot of misapprehension in connect interests of the cheese industry of the spointment of the Commission to its a price for the output shipping difficulty, and that is an of the Canadian cheese which will aspect of the situation which is far and the commission to its a price for the output shipping difficulty, and that is an of the Canadian cheese which will aspect of the situation which is far important of the control of

The matter was first discussed last October, when it was pointed out that the proper time to make such arrangements was between the first of January and the end of February. during which period the cheese trade in Canada was less active than at any

time during the year. cheese in Nothing was heard of the matter factory. Nothing was heard of the matter factory. This is an unprecedentedly that the British Board of Trade should

Mr. I. Villeneuve of the recognition o

AND HIDES

FARMERS—Why not get the high-est prices for your wool and hides by shipping direct to us? You can make the middleman; sportis your-self. We sond cush the same day as goods are received. We are now toying the following prices:—

yring the following prices:—
ool (washed)58 to 33e lb.
ool (washed)58 to 33e lb.
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John Hallam 111 Front St. East, Toronto.

purchase the entire exportable surplus of Canadian cheese for the season 1917, and it was suggested at the same time that a representative of the Canadian cheese trade and some one to represent the Canadian Government should act on a commission with the representative of the British Board of Trade to carry out the details of the purchase and shipment. If the arrangement goes through it is proposed that the cheese should be handled through the usual channels, purchased at a price agreed upon and that the business will be conducted along the regular lines. Persons or firms now in the trade will be able to carry on business as they do at present. The plan offers one very important ad-vantage in that the Admirakty would become responsible for the overseas shipment of the cheese and whether the cheese were shipped regularly or one cheese were snipped regularly or not the producers would receive their money. In the face of the ex-isting very serious shipping situation

He also acted as creamery inspector in the province.

Mr. John A. McDonald is severing that is a most important considerabiles long connection with the dairy branch of Saskatchewan to join the Manitoba dairy branch. He is a factory instructor and inspector of many years' experience, and is fully conversant with the Western system of cream and butter grading.

The Cheese Situation

The Secretary of the Brockville

The Cheese Board is in receipt of a lotter from Prof. Readdick, Dominion Dairy Commissioner, which clears up is joint prof. Readdick, Dominion Dairy Commissioner, which clears up as jot of missprehension in connec. Interests of the cheese industry of a jot of missprehension in connec. Interests of the cheese industry of this country, because it deals with the thought of the cheese industry of this country, because it deals with the

ber of the Commission, says the matter is still in the sir and nothing can be done until true instructions are received from the importal Government. There have importal Government. There have importal Government. There have been so marked since the bestiming of the war, will be even more pronounced this year than last. Four rumors and so much miss to make a state of the subject that Prof. Ruddick this seems it advisable to make a state at St. Claud. Two of these are deems it advisable to make a state at St. Claud. Two of these are subject that the proposal as follows:

The matter was first discussed into operation, and the new factory at Haywood, which got into operation, and the new factory at Haywood, which got into operation. seems certain that the growth in Manitoba cheese making, which has been so marked since the beinto operation, and the new factory at Haywood, which got into operation only at the close of last season, will put in a full season this term. In all, 26 factories will operate this year. Already some of this year's make of change, he sold at 35t conts at the

cheese has sold at 251/2 cents at the

high price at this time of year.

Mr. I. Villeneuve, of the Dairy Department of Manftoba Agricultural
College, who is spending almost all
his time in government inspection and supervision of the cheese fac-tories, reports that he finds the cows of the cheese districts in much better condition than one year ago.

One fact that will help to swell the

season's make is the early opening of the factories. About one-half of them began work about April 1st, and the others followed during the weeks since then

This year the effort is general to This year the effort is general to make an earlier ripening cheese. Manitoha's cheeses some discally and the keen demonstrated has been for cheese to put right of the product of the second cheese factory managers, cheese factory managers, cheese makers and factory directors. This whole question of quick ripening cheese was covered with such good results that part of this season's make has already entered into satisfactory consumption.

"I could not have done without it this Summer, as help is so scarce"



Here is the experience of one of the scores of dairy farmers for whom the

EMPIRE Mechanical Milker

is taking the place of the farm help they can no longer get, and enabling them to keep their herds together and take advantage of the prevailing high prices.

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Gentlemen:

A law used one of your "Empire Military" since any last April, on from 30 to

I have used one of your "Empire Military" since any last April, on from 30 to

I may use the second of the second of the second of the second of the

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If on heliers never milized before, with perfect samusation tests were.

The Milker has been of more practical value to me than I WILLIAM COLYER

We will be glad to send you Booklets showing exactly how the Empley Mechanical Milker works, and telling the experience which dezens of prominent dairy farmers have had with it. Address Dept. E.

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Spavin Cure UNTSVILLE, ONE., March oth, 1916, have used a good many bottles it all's Spavin Cure for sprains at mess and I do not think it has a , especially in stubborn case ly send me a copy of your Trents e Horse. G. T. YOUNG, Sold by druggists overywhere. \$1.00 a lla, 6 bottles for \$5.00. Get a copy of "A satiss on the Horse" (rom your druggist Dr. B. J. Kendall Company, nosburg Falls, 114 Vermon

OFFICIAL RECORDS OF HOLSTEIN-FRIESIAN COWS, FROM APR, 1 TO APR, 15, 100 APR, 100 APR, 100 APR, 100 APR, 100 APR, 100 APR, 100 APR

4m. 15d. 565.3 a. milk, 54.51 lbs. 6at, 50.56 lbs. butter, 14-5ay record: 5y. 4m. 12d.; 131.5 lbs. milk, 47.45 lbs. 6at, 58.50 lbs. butter, 20-6ay record: 5y. 4m. 12d.; 131.5 lbs. milk, 47.4 lbs. fat, 58.50 lbs. butter, 20-6ay record: 5y. 4m. 12d.; 267.4 lbs. milk, 54.07 lbs. 6at, 150.08 lbs. butter, Allison Bros., Chesterville, 3. Simcoc Mercodes Queen, 2563, by. 11m. 36d.; 51.6 4 lbs. milk, 34.06 lbs. fat, 30.00 lbs. butter, R. W. E. Burnaby, 30.00 lbs. 50.00 lb

d.
Hill-Crest Pontiae Sadie 23712, 5y. 26d.; 591.8 lbs. milk, 23.10 lbs. fat, 7 lbs. butter.
-day record: 5y. 0m. 25d.; 2687.0 lbs. , 88.76 lbs. fat, 110.94 lbs. butter. G.

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26.18 San venezue.

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28.18

13. Amelia Boho Posch, 19418, 6y, 0m.
4d.; 474.8 Ba. millt, 15.65 Ba. fast, 19.56
lab butter, B. B. Maillory, Belleville,
13. Bella A. Posch, 1768, 6y, 4m. 13d.;
14. Bella A. Posch, 1768, 6y, 4m. 13d.;
15. Bella A. Posch, 1768, 6y, 4m. 13d.;
16. Bella A. Posch, 1768, 6y, 4m. 13d.;
17. Bella A. Posch, 1768, 6y, 4m. 13d.;
17. Ba. Butter, B. Maillory, 6y, 4m. 13d.;
18. Bella A. Bella B. Bel

53.43 lbs. fat, 66.66 lbs. butter. W. L. Shuw. Zaridin Clothilds of D. DaKCol, 1887, 120-day record: 6y 10en. 13d.; 13005.8 lbs. fut. milk, 35.38; lbs. butter, 445.28 lbs. fat. Colony Farm, Basondale, B.C. 18. Median Peoch Pauline, 1639.; 246-day record: 8y, 8m, 3d.; 31064.8 lbs. milk, 68.47 lbs. fat, 88.83 lbs. butter. Colony 64.70 lbs. fat, 88.84 lbs. with. Sr. Four-Year Class.

Sr. Four-Year Class.
Francy Queen Ormsby, 25293, 4y. 6m. 859.4 lbs. mslb. 21.85 Bas. fat. 27.83 butter. D. Baymond. Vandrenil, Que. Pontiac Sara Jewel B., 25378, 4y. 9m. 47.1 kbs. mslb., 21.65 kbs. fat. 26.94 butter. T. H. Dent & Son. Wood-butter. T. H. Dent & Son. Wood-butter. Sk.

Hianch Hengerveld, 21017, 4y. 8m.
: 376.6 lbs. mflk. 16.98 lbs. fat. 21.22 24d.; 376.6 ibs. milk., 16.38 ibs. fac. 21.23 ibs. butter. correctly 4.9 km. 34d.; 773.2 ibs. milk. 33.37 ibs. fat. (4.172 ibs. butter. Roy Norell). Stranfordvelile. Noblobook., 2150.4 ibs. milk. 33.37 ibs. fat. (4.172 ibs. butter. Roy Norell). Stranfordvelile. Noblobook., 2150.4 ibs. milk. 191.0 ibs. fat. 15.46.3 ibs. fat. 15.46.3 ibs. milk. 191.0 ibs. fat. 15.46.3 ibs. milk. 191.0 ibs. fat. 15.46.3 ibs. milk. 191.0 ibs. milk.

V. L. Shaw.

5. T. Three-Year Cliss.

Hill-Creat King Pontiae Rauwerd,
1010.

29. Son. 46.; 658.6 lbs. milk, 73.3

5. fat. 34.04 ba. butter.

30.-day record: 39. Son. 46.1; 2738.1 lbs.

filk, 198.0 lbs. fat., 136.04 lbs. butter.

2. HEI-Creat Blay Echo Courtees, 2958,

7. m. 346.; 501.2 lbs. milk, 34.08 lbs. fat,

10 lbs. butter.

90-day record: 3y, 9m, 24d; 2360.0 hs. milk. 82.03 hs. fat, 115.03 hs. butter. 3. 32 heaville. 15 hs. 15 hs ilk, 84.76 lbs. tst, 10s.94 lbs. butter. A. Brethen Segis Dixie, 25787, 3y. 4. DeKol Plus Segis Dixie, 25787, 3y. 7m. 18d.; 591,7 lbs. milk, 21.99 lbs. fst, 47 lbs. butter. D. Raymond. 6. Het Loo Cokhilde, 25921, 5y. 11m. 1; 469.5 lbs. milk, 21.17 lbs. fst, 26.46 s. butter. s. butter. 14-day records Sy. 11m. 5d.; 918.8 lbs. lik. 41.35 lbs. fat. 51.69 lbs. butter. W

Shaw.

1. Al.35 lbs. fat, silve ...

Shaw.

1. Allee Tensen's Canary, 25785, 3y. 9m.

d.: 505.7 lbs. mHk, 20.52 lbs. fat, 25.65

6. Alloe Tensen's Canary, 20766, 3y, 9m. 18d.; 260.7 ha milk, 260.8 lbs. fat, 26.5 lbs. butter.

18d.; 260.7 ha milk, 260.8 lbs. fat, 26.5 lbs. milk, 40.8 lbs. fat, 18d.; 19d.5 lbs. milk, 40.8 lbs. fat, 18d.1 lbs. butter.

A. C. Hardy, Brockville.

1. Piet Yar. Three Year. Calas.

1. Piet Jr. Three Year. Calas.

1. Piet Jr. Three Year. Calas.

2. Comy Lady Aagrie Newman, 26594, 3.7 cm. 24.5 lbs. butter.

2. Comy Lady Aagrie Newman, 2594, 3.7 cm. 250.7 lbs. butter.

2. Springbank Betsy Colanths, 31240, 5.7 cm. 254, 343.0 lbs. milk, 13.6 lbs. fat, 12.8 lbs. butter.

2. Springbank Betsy Colanths, 31240, 5.7 cm. 25d.; 384.4 lbs. milk, 13.6 lbs. fat, 16.8 lbs. butter. Geo. D. Wright.

1. Het Loo Wayne, 37328, 57, 11m. 10d.; 37.6 lbs. milk, 13.6 lbs. fat, 16.8 lbs. butter. Geo. D. Wright.

1. Het Loo Wayne, 37328, 57, 11m. 10d.; 37.6 lbs. milk, 14.7 lbs. fat, 16.8 lbs. butter. Geo. D. Wright.

1. Het Loo Wayne, 37328, 57, 11m. 10d.; 37.6 lbs. milk, 14.7 lbs. fat, 26.8 lbs. butter. Geo. D. Wright.

Soc. 108. milk, 16.70 108. 1at, 20.88 108. butter.
21-day record: 2y. 11m. 10d.; 1102.3 1bs. milk, 46.89 1bs. fat, 58.62 lbs. butter. W. L. Shaw. milk, 46.89 lbs. fat, 55.62 lbs. butter, W. L. Shaw. L. S

Nutter. 14-day record: 2y. 9m. 21d.; 748.1 lbs

milk, 28.52 lbs. fat, 35.66 lbs. butter. & S. Gooderham, Clarkson.

S. Gooderham, Clarkson.

4. Roule Echo Pontiac. 46906, 27. 2m.

4. Roule Echo Pontiac. 46906, 27. 2m.

10. Sutter. Company of the Company of day record: 2y. 0m. 20d. 563.7 lbs. 34.59 lbs. fat. 43.23 lbs. butter. A milk, 54.69 lbs. fat, 44.32 fbs. butter. A. C. Hardy. Pletbe Fauline Hengerveld 2nd, 32 Pletbe Fauline 12nd, 32 Pletbe F 6. Lady Korndyke Wayne Ind. 4234.

6. 1. 13.71 lbs. butter: K. M. Dokjelesh.
Kemmore.

6. Portinc Hester Pietle 2nd. 35208. 19.

6. Low Banks Queen Korndyke. 3977.

7. Portinc K. M. Dokjelek.

6. Low Banks Queen Korndyke. 3977.

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6. Low Banks Queen Korndyke.

7. July 10. 10. 19.

6. Portinc K. M. Dokjelek.

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9. Lulu Inka Hermes.

10. Riverdale Hengerveid Sogit.

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19. Portinc K. M

(Continued next week.)

Market ORONTO, May 21 __7

TORONTO, May 31...., port of the present of the pre ing Canada us a bridge progress.

During the week, wheat and mill feeds have all de the drop in mill feed be full feed by the control of ducts are firmer. Polation are unchanged, and live exception of hors, eelis did a week figo.

WHEAT.

However the control of the control o

May 24, 1917.

cattle go on passium. 20
cattle go on passium of the control of th

ots, \$13 to \$13.60, POTATOES AND BE The market for potatoes h and there seems little prosper

Ourvilla Holst Get in the awim and by header from the family produced the first 50-lb. certing a son of FINDERE MAY FAYNE.

LAIDLAW BROS., AYLM

R. R. No. 1 (Eigin (

fine young Registered ready for service.

Hy. Glendinning & S

-VILLA VII choice bull calves all sired mand has been greater th bulls in the lot. ARBOGAST BROTHERS,

GET ONE I have for sale three made 23.56 lbs, butter as a KEYES. Another, whose PONTIAC MAY PIETERRT at one year 11 months of will be sold very reasonable.

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NINETY-FIFTH PRIZE.....\$20.00 in gold NINETY-SIXTH PRIZE.....\$15.00 in gold NINETY-SEVENTH PRIZE.....\$10.00 in gold NINETY-EIGHTH PRIZE.....\$5.00 in gold NINETY-NINTH PRIZE.....\$2.50 cash HUNDREDTH PRIZE.....

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\$125.00 AKE the figures from 1 to 9 inclusive and place them in the squares in such a manner that when added diagonally, vertically or horizontally, the total will always be 15. No number may be used more than once. Use this sheet, a separate piece of paper or any other material.

> Only one person from each family may enter this contest. The integrity of the gentlemen who have consented to act as judges is a guarantee that the prizes will be awarded to those deserving them. DO NOT DELAY. Send in your solution immediately. You may win the First Prize.

1917

otter G

2y. 9m. fat, 16.49 rankford. 0m. 20d.; 18.39 lbs.

, 2y. 0m. fat, 22.80 563.7 lbs.

ild 2nd,

554.9 lbs.

lbs. fat, r. d, 42242, 14.96 lbs. Dalgleish,

35208, 1y.

694.7 lbs. ce, 39772, Ibs. fat, sh. le, 48456, 13.59 lbs.

18499, 2y 2y. 0m. s, 38170, 12.0 lbs. butter

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family

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Market Review and Forecast

CARMAN BAKER

Chickens, milk fed Live.	27e 22c 23c 18e 23c 56e

Market Review and Forecast

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choice buil caives all aired by our \$1,000. \$5 ib. ALCARTRA buil. The demand has been greater than the supply. 50 head in the herd and only 5 buils in the 10.

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R. R. No. 2

BRIGHTON, ONT.



Good reliable seeds
of all kinds are extremely soarce and the supply
is very limited this season, so

DO NOT DELAY SENDING YOUR ORDER

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	Quebec.
BEED CORN Rack Crib	
On Cob. cured cured on Cob. cratea. bags. Per Bushel.	O.A.C. No. 3 Oats 2.90 Daubeney Oats 1.50 O.A.C. No. 72 Oats 31.15 to 1.25 Potatoes: Prince Henry.
Wisconsin No. 7\$3.25 \$3.00 Golden Glow 3.16 2.75 Bailey and Learning 3.15 2.50 White Cap 3.26 3.00	Empire State, Gr. Mountain and Early Ohio 5.00 White Intermediate Car-
ongfellow 3.50 3.25 N. Dakota 3.25 2.76 Compton's 3.50 3.25 Quebec No. 28 3.25 ceaming Fodder, Mammoth Southern, shelled 2.00	rot
m p r o v e d Leaming, shelled 2.50	most No. 1) . 223.00 to \$25.00 Lyman's Grimm
ommon Millet 2.75 ap. Barnyard Millet 7c. lb.	Hairy Vetch

Garden Corn: Golden Bantam, \$9 bus., 25c lb.: Early White Corn, \$6 bus., 25c lb.: Stowell's Evergreen, \$9 bus., 25c lb. Mangels: Keith's Prisetaker, Danish Sludstrup, Yellow Leviathan, Tehow Intermediate, Ciant Half Sugar and Man-moth Long Red, in lb. pkgs., 25c, if 5 lbs. or more of one vari-ety, 23c.

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color and type, and from R.O.P.
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Bulls from 8 to 12 months old, out of dams closely related to the two greatest Ayrabire cows in the world, Garclaugh May Mischlef and Jean Armour.

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Mature cowe and young stock for sale always on hand thoth serses) from large seavy productions of the following stock of the following stock of Pairmount, Imp. U.S.A. No. 49184, son of the famous extherhall Robin Hood, Imp. No. 35782. Inspect herd or write for particulars.

8. J. TAYLOR:

HOLSTEINS BARGAINS IN HOLSTEIN BULLS-

I have several bulls, from one month old to bulls fit for service, to dispose of. Rémember, these are sired by Prince Segis Walker Korndyke, whose full sister gave 29.76 lbs. butter in 7 days as a four-Korndyke, whose full sister gave 23.16 lbs. butter it days as a but-year-old, and with his twelve half-sisters average 4 per cent. or better. These calves are nicely marked and out of R. O. P. show cows. Re-member, I guarantee satisfaction or refund money.

A. J. TAMBLYN.

ORONO, ONT.

CLOVER BAR HOLSTEINS

A choice bull calf born March 17, 1917, whose three nearest dams average 30 lbs. butter in 7 days and 100 lbs. milk a day; also a few others from R.O.M. dams.

P. SMITH.

R.R. 3.

STRATFORD, ONT.

FAIRMONT HOLSTEINS Bull calves for sale, sired by KING SEGIS ALCARTRA CALAMITY, from tested or untested dams.

Write to-day, my prices will appeal to you.

PETER S. ARBOGAST,

R. R. No. 2.

MITCHELL, ONT.

Could spa e 10 cows or helfers bred to the Great Bull KING SEGIS PON-TIAC DUPLICATE. Have one yearling bull, and calves from 10 months down. Myrtle, C.P.R. Manchester, G.T.R.

R.M. HOLTBY,

Port Perry, R. R. 4

Registered Holsteins

is from one month to 17 months old for sale. All from our grand herd s Echo Segis Fayne, whose sire is half-brother to Segis Fayne Johanna, world's wonder cow, that has just made a record of 50 lbs. in 7 days. ou need a well backed bull write at once. Ire, Echo Segls Fayne, whose sire is half-br the world's wonder cow, that has just made if you need a well backed bull write at once. JOHN M. MONTLE, Sunnyside Stock Farm STANSTEAD, QUE.

RIVERSIDE HOLSTEINS For Sale, Choice Young Bulls, sired by grandson of Pontiac Kerndyke, and a brother of Pontiac Lady Korndyke, 35.05 butter in 7 days, 156.25 lbs. 30 days—world's record when made. Also females bred to "King." J. W. RICHARDSON, - CALEDONIA, ONE

-MR. HOLSTEIN BREEDER-

It is customary in selecting a hord sire to choose one backed by great records. Do not forget the individual. We breed to a standard for INDIVIDULALITY and PENDUCTION, therefore choose your next sire from
either Lakeview Dutchland Hongerveld Ind, Grand Champion at the Canadian National Ex. and Western Pall, and Champion at the Canadian National Ex. and Western Pall, and Champion at the Canadian National Ex. and Western Pall, and Champion at the Canadian National Ex. and Western Pall, and Champion at the Canadian National Champion of the Canada Champion of the Canada
wereage for 7 days, 28,71 libs. Dutter and whose dam and 5 staters average
111.5 lbs. of milk per day. ALL FAULITIASS INDIVIDUALS. Correspondence solicited.

Oak Park Stock Farm, R.R. No. 4 PARIS, ONT.

Postal Card Reports

Correspondence Invited.

KINGS CO., P.E.I. MONTAGUE, May 2.—Since hast writing, we had a lot of cold weather. It is keeping the grans and cropping back very much. About one-haif of the clover very much. About one-haif of the clover the stock will be able to go on the grans. Feed of all kinds is very dear. Hay, Fil to life a ion; bran, 3:25 c wtl; oil. control of the cold will be able to go on the grans. Feed of all kinds is very dear. Hay, Fil to life a ion; bran, 3:25 c wtl; oil. control of all kinds is very dear. Hay, the stock will be able to be controlled to the control of the c

CAPE BRETON, N. S.

CAPE BRETON, N. S.
SALMON RIVER, May 7.—Weather cold, very little seeding done yet. Pierries in progress, but no cultivating as the cold was seen to wet. Prices are high for all the cold was seen as the cold was seen as the cold cold was and hay seed are hard to get and very high.—Y. H. McD.

COMPTON COUNTY, QUE.

COMPTON COUNTY, QUE.
Bury, May 2.—Last week the weather was fine and dry and good for working.
Small edantity of whose already sown, we see that the second sown are seen as the second sown as the second second light; seen as the second second light; seen as the second second

SHERBROOKE CO., QUEBEC.

SHERBROOKE CO., QUEBEC.
LENNONCYPLEAD, May 9.—WeeknLENNONCYPLEAD, May 9.—WeeknLENNONCYPLEAD, May 1.—Weeknconditions are very bookward in this localky, and very little seculing has been
done. Potatoes are very scarce and
are quite unable to supply seed wheatrequired, and other seeds are scence.
There is a marked increase in garden
required, seed to be to the cores and vilseeds are seeded in the cores and vilseeds are seeded in the cores and vilseeds are seeded in the cores and vilseeds are virginized to the core of the core
makes it very difficult for farmers do
makes it very difficult for farmers do
meet the demand for increased production.—If. M.

HASTINGS COUNTY, ONT.

HASTINGS COUNTY, ONT.
Tweed, May 3.—Our narmers are now
in the midst of spring seeding and the
fields are being put in in very good condition, although the weather has been
too cold for much growth. Olever and
fall grains are counting out very well and
with favorable weather, will be a good
crop. There is just now a very keen
demand for young page.—It. S. T.

GREY CO., ONT.

GREY CO., ONT.
THOMNSHAY, May 11.—The farmers are quite busy total week hustling in the seeding. We had quite a furry of amount week, and the air is still cold. Hogs fail wheat is a poor looking crop. The insadows are not thriving as they should, as the air is to cold to produce match as the air is to cold to produce match as the air is too cold to produce match as the air is too cold to produce match to be an experience of the cold o

HORSE HILLS, ALTA.

HORSE HILLS, ALTA.

North Edmonton, April 28.—Spring is coming, but very slowly. We are having except a spring he was a spring he will be a spring he was a spring a

ANNUAL MEETING, HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA.

FRIESIAN ASSOCIATION OF AMERICA.

HE Holstein-Friesian Association of America will hold their 12nd and any lual meeting on the first Wednesday in the Banarott Hotel, at 10 o'clock a.m., for the election of officers and the transaction of any business that may legally come before them.

"Must compliment you on the big stand your paper is reaching. I find to of dairy cattle abone are worth five times the subscription price. Might say all photos are filed and make a good col-lection. Long may your paper live and preper." —John Warner, Cayurs. Ont.



CANADALINSEED OIL MILLSLTD. CREAM.

WE ARE OPEN TO BUY both for churning and table

ASK ANY SHIPPER about our service and prompt refurna

ASK FOR PRICES. The figures for yesterday may be TOO LOW for to-

WE FURNISH CANS.

The Toronto Creamery Co., Limited Church St., TORONTO, Ont.

WANTED

An experienced man in handling milk as an assistant in our milk bottling plant. Must be accurate in use of Saboock. Permanent posi-tion and good salary to right man. Address

ELMHURST DAIRY. Que. Montreal West - -

BUTTER & EGGS

—to us. We are not com-mission merchants. We pay net prices and remit promptly.

WILLIAM DAVIES COMPANY

Established 1854 TORONTO, ONT

Sell Them Now

as Others are Doing

Make sale for those surplus bulls. Why keep them longer? Among our dairymen who read Farm and Dairy there are hundreds who, if they knew what you had for sale, would buy it at your own price

Fix up an advertisement to-night, and send it to Farm and Dairy, and have it in these columns for a few weeks. It will speak to 23,000 possible buyers. Cost to you is only \$1.68 per insertion or lower by contract.

Other progressive breeders sell their stock this

way. You can, too.

Try it. Make your start now while the demand is still keen.

Please mention Farm and Da when writing advertisers.

Market R (Continued

do good do medium
Butchers' good cows do good do medium
Feeders, 900 to 1,000 lbs do medium, 700 to 80 pounds

May 24, 1917.

Stockers, 700 to 900 lbs do medium Grass cows, 800 to 1,000 pounds Cutters Canners Milkers, good to choice, do com. and medium

do grass
do heavy fat
Spring lambs, each
Sheep, yearlings, choice
do common
do culls Sheep, ewes, light

choice .
do common do off cars do fo. common do off cars do f. ob. country nts. DAIRY BOARD St. Fachal, Quo. Ma butter sachal, Quo. Ma Woodstook, May 18.—21½6 for 1,300 boxes colo factories wanted much more peterboro, May 16.—cheess boarded; 977 sold 12.16c; balance said off 12.16c; balance said off

Brockville, May 17.—2,3 and 1.558 colored offered

sales.
Stirling. May 17.—829 l
fered: 475 sold at 22 13-1
at 22%c.
Kingston, May 17.—165
colored boarded, 21%c bein

TWO NEW WORLD'S R STEINS.

A TWO-YEAR-OLD Hole
A 12 lbs. of butter i
This is probably th
tional record ever made
Glen Alex. Queen DeKol,
youngest cow of any breto make over 40 lbs. of bu

W. A. M. Herd of

at CHEST We believe we are

cords make them wo ever held in Canada. IN FEMALES-

Five cows with recompleted an R. O. P.

1 16,000 lbs. cow in R 1 16,000 lbs. 4-yr.-old, 1 14,000 lbs. 3-yr.-old, Then alsoa 28 lbs. cow in R. C

Most of our herd con 20,000 lb. cows.

PRINCE OF DUNDA a 10 months old sire w nearest dams' combine records average 22,468 Four sires in all—e from cows with reco

Not only in performs also individually you our sale one that any by Holsteins in Ontario sh miss. WATCH FOR FI ANNOUNCEMENTS AWEEK WEEK

Our catalogue will W. A. McELRO 24, 1917.

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BUY table

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18

Market Report

(Continued from page 21)
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price.

Rrockville, May 17.—2,836 boxes white A SPLENDID ONE READY FOR SERand 1,658 colored offered; no bids; no VICE.

ATWO-YEAR-OLD Holstein has made from ATWO-YEAR-OLD Holstein has made from the made fro

60 HEAD W. A. McElroy's

DISPERSION SALE

Herd of Record HOLSTEINS

at CHESTERVILLE, ONT., JUNE 14

We believe we are offering in our sale a list of animals whose re-cords make them worthy of the first place in any sale of this kind ever held in Canada. Run over our list of record offerings herewith: IN FEMALES-

Five cows with records of over 20,000 lbs. in R. O. P. 1 cow just completed an R. O. P. record of more than 19,000 lbs. at 12 years of

1 22 lb.

1 16,000 lbs. cow in R. O. P.

16,000 lbs. 4-yr.-old, R. O. P. 14,000 lbs. 3-yr.-old, R. O. P. Then also-

a 28 lbs. cow in R. O. M.—101 lbs. 1 day.

Most of our herd consists of daughters and grand-daughters of these 20,000 lb. cows.

PRINCE OF DUNDAS (31292) a 10 months old sire whose four nearest dams' combined yearly records average 22,468 lbs. milk. Four sires in all-every one

from cows with records over 20,000 lbs. milk. Not only in performance, but also individually you will find our sale one that any breeder of Holsteins in Ontario should not mias. WATCH FOR FURTHER ANNOUNCEMENTS NEXT WEEK



3 18.5 lb, Jr. 2-yr.-olds in R. O. M.

mature cow-record

1 24 lb. mature cow—record made at 11 yrs.

made at 10 yrs.

Our catalogue will be ready May 31st. Write me for one W. A. McELROY HILLSIDE Chesterville, Ont.

"CENTRE VIEW" FARM=

offers the service of PONTIAC KING WALKER.

His Dam—PONTIAC JESSIE—664 lbs. milk, 37.62 lbs. butter, 7 days, average test 4.53 per cent. 2827 lbs. milk, 153.46 lbs. butter 30 days, average test 4.3 per cent.

days, average test 4.5 per cent. His Sir's Dam—BROOKSIDE SECHS KORNDYKE (17149) C.H.B. 578 lbs. milk, 29.79 lbs. butter 7 days, average test 4.14 per cent. 2,459 lbs. milk, 119.76 lbs. butter 30 days, average test 4.04 per cent.

Terms: \$50.00 to insure a live calf.

M. McDOWELL Shipping Station. Oxford Centre, Ont.

Eighth Annual Live Stock Show

Live Stock Breeders' Association

DISTRICT OF BEAUHARNOIS, Ltd. Will be held at

ORMSTOWN, Que.

JUNE 6, 7, 8, 1917

Come to Ormstown, Quebec on the above dates and see one of the best Live Stock Shows in Canada.

All Horses and Cattle judged under cover in the large Stadium at 10 a.m., 2 p.m. and 8 p.m. daily. HORSE RACING ON THE THREE DAYS OF THE SHOW.

Admission to Grounds: ADULTS, 25c . . CHILDREN, 15c.

Write the Secretary for Prize Lists and other information. NEIL SANGSTER, W. G. MoGERRIGLE, President.

-A RARE BARGAIN-

to be sold at once

SIR PONTIAC NATOYE

Born May 1915-a choice son of WOODCREST SIR CLYDE, good enough for any herd-very active and sure.

Dam. NATOYE MAIDA PONTIAC, a daughter of KING PONTIAC ARTIS CANADA, record at 3 years 27.5 lbs. butter, 626.5 lbs. milk; 30 days, 109.9 lbs. with 2,611.9 lbs. milk. Best day's milk 96 lbs. Her dam, a 19.85 lbs. daughter of a 31.13 lb. cow, with 704 lbs. milk. Six dams average 31 lb. each.

This is a special bargain for an immediate sale.

Write us for particulars.

AVONDALE FARM A.C. HARDY, Prop. Brockville, Ont.

HIGHLAND LAKE FARMS

Hed sire, AVONDALE PONTAG ECHO (under lease), a son of MAY
Hed sire, AVONDALE PONTAG ECHO (under lease), a son of MAY
Been (18 STAVIA, the world's record cow for milk presents, as on of MAY
Been (18 STAVIA), and the sire of the sire o

LAKEVIEW HOLSTEINS

Are still in the lead. The latest Holstein year shock shows that they held 4 Canadian Records for butter, and Lakeview bulls have won all honors possible at both Toronon butter, and Lakeview bulls have won all honors are offering several richly bred young the star looking forward to the fall fairs, and we have decided to give \$25.00 in gold to, the man that buys the 181 winner, and we have decided to give \$25.00 in gold to, the man that buys the 181 winner.

Lakeview. Terms cash or time.

Major E. F. OSLER, Prop. Bronte, Ont. T. A. DAWSON, Mgr.



THE DAIRYMAN'S SLOGAN: BREED, FEED AND WEED.

Raising

Can you do it? You can. Others are doing it. John Wait, of Colborne, did it. He raised his milk yield in 5 years from 5,438 lbs. per cow to 9,954 lbs. by herd testing and business methods. "Early freshening," he says, "would often make a good dairy cow out of an apparently low producer."

Let us quote his letter further. "You cannot emphasize too much the importance of a pure-bred sire with a record —as I have found to be only too true. I have 2-year-old well-bred heifers which I expect this year will out-yield my best mature cows of 4 to 6 years ago with fully 1% more fat."

"Dairying," he adds, "is profitable if properly managed. This is the important part-for I know of several hard-working farmers whose herds are actually not paying for the feed and labor put on them."

John Wait increased his production with profit—that is, with the same equipment, stables and labor, at practically the same cost, he has doubled his milk production. This is a story of success that can be yours.

In Europe the breeding and milking stock are certainly not above normal, and are probably below. Moreover, cheese and but-ter being valuable and concentrated foods, will be readily shipped when more bulky foods are held owing to the submarines. The home demand for dairy products is vastly on the increase, although our herds do not show much growth. The growing demand in the cities for ice-cream and milk, and in the condensaries and milk powder plants guarantees that continued progress will be made in the dairy business.

How progress will be made There are just four principles-Good -

Management, Feeding, Weeding and Breeding.

"Management" means meeting the labor and feed shortages in the proper way. Instal modern milking machines—they give excellent results in herds of 20 cows or over, and cut down your labor one-half. Use wide machinery and more horsepower. Use the gang plow this fall and the double cut-away disc. Employ modern haying machinery, and thresh from the field.

"Good herd management" calls for get; ting rid of every cow that won't give at least 5,000 lbs. of milk a year. To fill their places keep every good individual heifer calf from a good cow. The cost of feed for a heifer up to the time she is bred should not be over \$40-you can sell her for much more than that if you don't need her yourself. But, keep no scrub dairy calves and no grade dairy bull calves there is no money in feeding them after twelve weeks. This, of course, does not apply to dual purpose cattle

Carry all the dairy cattle your pasture land, your plan of crops and your labor will permit—don't go beyond it. A smaller herd of well-fed, well-cared for, heavy milkers, will give more hard cash profits than a big herd, half-fed and half-cared for.

Feeding is important---of course

You are probably too busy for soiling crops this year, but if pastures become short and dry, cut some of your green oat crop and feed it. You will make more money than if you let your oats ripen, but allow the milk flow of your cattle to stop—it will not come back until after freshening. it will not come back until after freshening. This will be especially desirable in 1917, because of the short corn crop last year.

Unless pastures are burned and no sum-mer silage or soiling crop is available don't figure on feeding grains or meal this year -unless to very heavily producing cows, or to cows on test or for records. If you want to do so, however, try cottonseed meal, the cheapest concentrate at present prices, considering its food value. Don't feed over two lbs. One part cottonseed meal mixed with two parts bran, and green food, gives the ideal balanced ration for succulence and energy.

Grow more corn this year-the variety that suits your district best. Provide ample silo space. Even if it costs more money to build, the silo built in 1917, will pay big. Harrow your corn before it breaks through, when about two inches high, and again when five inches high. It doesn't hurt the corn, and it kills thousands of weeds.

Give your cows pure water-a cow needs ten to twenty gallons daily. Remember a can of fly spray in July and August will pay its cost many times over by increased production. Nail an old sack in the dorway—darkened stables during milking make for greater comfort and greater production. A tree or two in the pasture field will mean many dollars in July and August.

Weeding out---it must be done

Ask yourself: Are cows keeping you or re you keeping cows? You can find out only by the test, which doesn't take up much time. Weigh each cow's milk twice a day on three widely separated days in each month. Put down the results on a card. Three times a month on the same days take a sample of her milk, put it in a bottle with a preservative and have the milk tested for butter fat. Your district representative will do the testing and make all the calculations. In this way, weed out all the profit eaters and fill the gaps with your best helfers.

And now breeding-it is vital

A good bull is more than half the herd, but kill off that grade bull—he's robbing you. Fill his place with a good, pure-bred bull, but be sure he is good. A scrub "pure bred" is worse than a scrub grade. He steals your money and he hides behind a pedigree. But choose a bull of the breed pedigree. But choose a bull of the breed which predominates amongst your cows and be prepared to pay a reasonable price for a pure-bred. But be sure he comes from a family which has produced heavy milkers consistently for generations. If possible buy a bull calf whose dam and sire, especially the dam, have qualified in the official Record of Performances. Of course, he must be a strong, healthy, vigorous individual, too.

When the pure-bred bull of good family and strong personality is mated to profit-making females, proved by test, and the progeny is properly fed, profitable produc-tion is assured. It may take time and some money, but the result is certain—the farmer on the highway to prosperity

If you wish immediate practical information regarding

The installation of a milking machine. The best variety of corn, ensilage or ear,

for your county.

The equipment prefererd for herd testing. How to make the test with little labor. How to organize a small herd testing cen-

e in your community without cost. Whether to feed concentrates this sumer and just what to feed according to your local conditions.

How to care for the corn crop at a minimum of expense.

The latest in efficient silo construction The families (or blood lines) of the dairy breed you favor that have been noted pro-

The cheapest way to produce clean, pure milk, according to your local conditions.

Or information upon any other practical phase of dairying which will best meet your particular requirements, write to the office of the Commissioner of Agriculture. Kindly give details regarding your local conditions and ask specific questions.



The Ontario Department of Agriculture

PARLIAMENT BUILDINGS, TORONTO

HON. WM. H. HEARST

G. C. CREELMAN Commissioner of Agriculture

ONTARIO

Minister of Agriculture