

There is no other furnace like the "Sunshine"— none "just-as-good"— none that can take its place for a minute with the wise, far-sighted buyer.

The "Sunshine" is absolutely **right** right in idea, in design, in appearance, in construction, in price and in **performance**. It's a furnace that's made for your needs a furnace complete in every single detail has everything a furnace should have—is convenient—economical to buy **and to run**, with a lifetime of dependability and satisfaction built into every inch.

You don't have to go from hot rooms to cold rooms when a Sunshine Furnace is doing the heating—it gives a steady, even warmth to every room and will transform

a notoriously cold house into a warm, cosy dwelling.

GET THIS FREE BOOK.

If you are thinking of building, remodeling or installing a heating plant, send for a copy of "Comfort in the Home". It illustrates and describes the Sunshine Furnace and contains valuable information that every home owner should have. Let us mail you a copy—free.

If you will tell us size of your house and number of rooms, our expert heating engineers w i 11 — without charge—supply you with an estimate for heating it. Write nearest office.



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Largest Manufacturers of Furnaces and Stoves in the Entire British Empire. CALGARY WINNIPEG SASKATOON VANCOUVER EDMONTON

Massey-Harris Service Talk No. 5.—Manufacturing and Selling. TO matter how much care may be exercised in the manufacturing of an article, the manner in which it is sold may to a large extent, cause one to lose sight of whatever merit

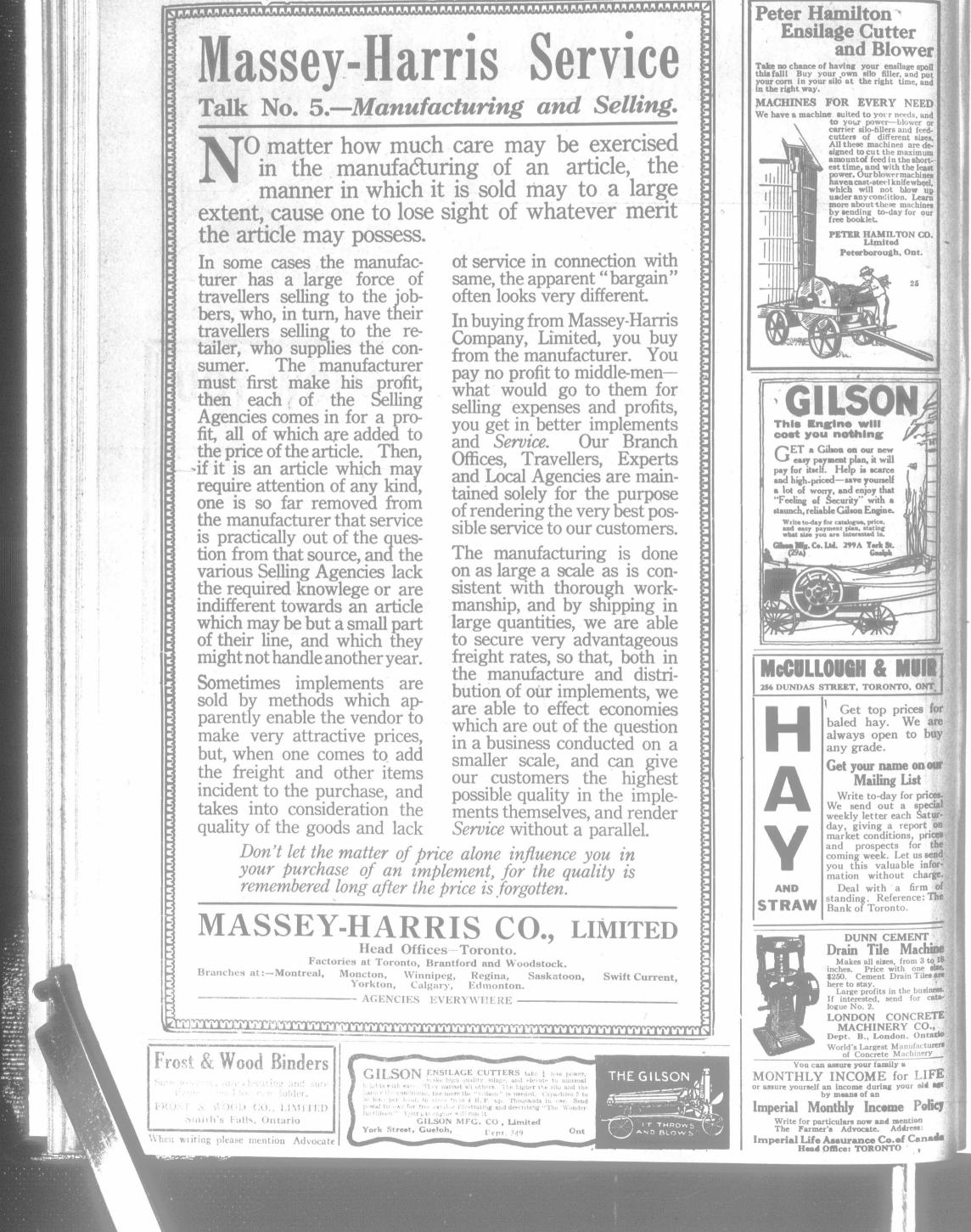
In some cases the manufacturer has a large force of travellers selling to the jobbers, who, in turn, have their travellers selling to the retailer, who supplies the con-The manufacturer sumer. must first make his profit, then each of the Selling Agencies comes in for a profit, all of which are added to the price of the article. Then, require attention of any kind, one is so far removed from the manufacturer that service is practically out of the question from that source, and the various Selling Agencies lack the required knowlege or are indifferent towards an article which may be but a small part of their line, and which they might not handle another year.

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ot service in connection with often looks very different.

Our Branch

on as large a scale as is conmanship, and by shipping in large quantities, we are able to secure very advantageous freight rates, so that, both in the manufacture and distribution of our implements, we



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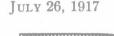
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THE FARMER'S ADVOCATE

Absolutely the one great, convincing engine value.

Fairbanks-Morse Quality at a Popular Price

That's the story in a nutshell. This new "Z" Engine puts dependable—efficient—economical "power" within the reach of every farm,

"More Than Rated Power and a Wonder at the Price"

Simple—Easy to Operate—Light Weight— Substantial — Fool-proof Construction— Gun Barrel Cylinder Bore — Leak-proof Compression — Complete with Built-in-Magneto. Quick starting even in cold weather. Low first cost—low fuel cost low maintenance cost. That's the new "Z."

Go to Your Dealer and See the "Z"

Inspect it. Compare it. Match it point by point. Have him show you the features that make the new "Z" the greatest engine value offered. You'll buy it.

The Canadian Fairbanks-Morse:

Co., Limited St. John, Montreal, Toronto, Winnipeg, Saskatoon, Calgary,

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Important Dealer Service When you buy an engine from your dealer you deal with a local representative of the imanufacturer. He shares their responsibility. He stands behind the engine besells. He's responsible to you. He's at your service to see that you are satisfied, and he's as hear you as your telephone any time you want him.



THE instant lighting of any part of your home, barns, sheds is a matter only of pressing a button — if you have Delco-Light. And such a flood of clear, clean, brilliant light. Cheerful, happy light. Good for eyes. Good to keep the children at home on the farm. No matches. No smoke. No oil. No lamps or lanterns to clean.

ELECTRICITY FOR EVERY FARM

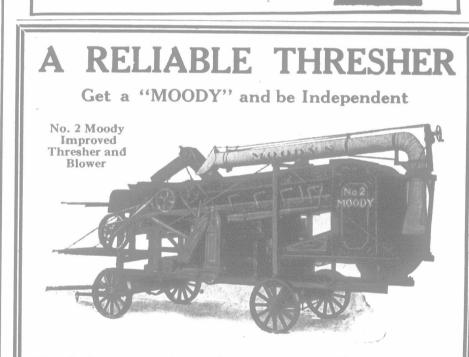
Delco-Light gives pleasure and health on the farm. But it allo works for its keep and pays for itself—chores are done more quickly—no lantern to hold, better light. Electric power does in half the time the milking, separating, churning, washing, and other small jobs. Saves manual labor. Saves housework. Gives running water by operating a pump. Adds all city conveniences to the farm home.

Delco-Light is efficient. It delivers all the current you need all the time, at small cost. Delco-Light is simple. There is little to get out of order. Little to do in operating. Press a lever—it starts. Stops automatically when storage basteries are full. Need be operated only two or three times a week. Full information and free literature can be obtained from your nearest distributor. Price complete, No. 208—\$485 and No. 216—\$585.

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EMENT Machine , from 3 to 18 , ith one size, , or a to 18 , , or a to 19 ,

ONCRETE RY CO., Ion, Ontario Manufacturere Machinery

for LIFE your old as ne Policy

mention Address: of Canada Sydney Basic Slag You have been reading our advertisements recently, and, unless we have caused you to think, we have been

and, unless we have caused you to think, we have been spending our money in vain. Whether you are a user of fertilizer or not, we want our salesman, who is an agricultural expert, to have a talk with you. If you are already using fertilizers, you know their value, and all we want to say is that SYDNEY BASIC SLAG costs twenty dollars per ton, and will grow bumper crops of wheat. Doubtless you are paying considerably more money. Surely, therefore, it is worth while investigating the merits of SYDNEY BASIC SLAG. If you are not using fertilizers, now is the time to start, and SYDNEY BASIC SLAG is what you should use.

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the certain victory—and the free and glorious future.

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For the sake of Canada and your children, save and invest in War Savings Certificates.

The National Service Board of Canada, OTTAWA. 27

The easiest gas engine to operate and care for

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THE farmer wants an engine that is simple and reliable, that will do what he wants it to do without constant tinkering and adjustment.

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The trouble-making features found in many so-called "farm" engines have been avoided in the Alpha. It contains no delicate electric batteries, but starts and runs on a simple low-speed magneto, guaranteed for the life of the engine.

The same idea of simplicity and durability has been carried out all through the Alpha. Every part is designed to do its work with little or no attention, and to stand up under hard work.

One big feature of the Alpha is its low fuel consumption. Whether you are using gasoline, alcohol or kerosene the Alpha is a fuel-saver.

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Alpha Gas Engines are made in eleven sizes, 2 to 28 H.P., and each size is furnished in stationary, semi-portable or portable style, with hopper or tank-cooled cylinder.

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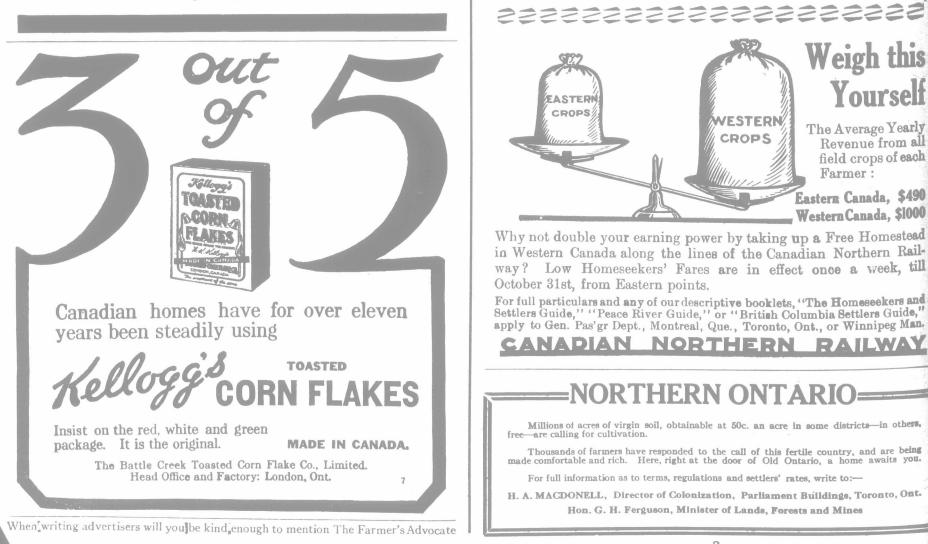
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LONDON, ONTARIO, JULY 26, 1917.

Luxury,

Despite all the talk of economy and thrift, despite the many warnings that the world faces famine and that saving is necessary, who can remember when luxurious living was so common as at the present time? There is more evidence in Canada of fat returns and much wealth than there is of any cutting down due to the H. C. of L. Profits are high. Wages are high, and while prices are abnormally high everybody seems to have more money and everybody buys. Stand on the corner of the busiest streets in our leading cities and watch, for a few minutes, the great, the near great, those who think they are great, and the imitators of the great, go by. Note the dress and the swagger; note the limousines, coupes, sixes and "just cars" pass. Drop into a fashionable restaurant or grill. Look over the menu. Veal and spring lamb may be absent, but dozens of other luxuries are present. The table of the average citizen is well laden with nourishing food, as it should be, and in emulation of the rich the luxuries are there too. Our tables all carry much that we could get along without. Right out in the rural districts there are many luxuries enjoyed besides the beauties of nature, fresh air, gorgeous sunsets and wonderful landscapes, that our city writers rave about. Watch the traffic on your own concession. Smith, Jones, White and the rest ride in their own "flivvers." The farmer no longer is recognized as a "Rube," for he dresses as well as his city cousin and as much like him as possible. Think for a minute-compare the amount of citrus and other tropical fruit consumed in your home now with that used ten years ago. When you were a boy fifty cents was a little fortune to be allowed for "spending money." Your boy would think as little of \$5. Oh, yes, this is an age of luxury, and yet well-earned luxury is nothing more than any honest, law-abiding citizen is entitled to. However, if famine is just around the corner, it might be well to take thought as to the morrow-save, serve, and cut out waste.

Uncertainty.

and what its effect will be. It is reasonably certain that food products will be scarce for some time, but what the effect of a world changed to meet the conditions of peace will be no one knows, however anxious we all are to see the day of a permanent cessation of hostilities. Financial conditions are looked upon with a degree of uncertainty by the farmer. Labor is ever uncertain and more so now than ever before. And the weather behaved badly last year and has not got back to normal yet. At best it makes results uncertain. Yet with all these uncertainties the Canadian farmer has done much good work for which he has received, in the past, little credit. What other business has as many uncertainties to face and is yet called "a safe proposition?" If all those who criticize the farmer could go through the mill as the farmer has gone through it, there would be less complaint of farmers making all the money, of farmers being unpatriotic, of farmers failing to do their bit. We would hear less about saving the calves, vastly less about too much grass and too many uncultivated fields, and more about legislation which would enable the farmer to compete in the labor market for the help he needs, and to buy at lowest possible cost the machinery and implements he requires to work the land.

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If it is necessary for Governments to exhort farmers to produce, it is just as necessary that they show their good faith by aiding in different ways to dispel some of the uncertainty by guaranteeing a supply of labor and machinery to the farmer at a reasonable price, and at the same time seeing to it that prices for farm products, if such price-setting is to come, are placed at a point to leave a reasonable profit on labor and investment. At the present moment things are extremely uncertain, and it is important that the air be cleared in time for the preparation this fall for a big crop next year. The farmer is just the same as any other honest, industrious, patriotic, business man. He desires to play safe and at the same time would like to do his level best for the nation, and can be counted upon to do so if assured of a supply of labor and a reasonable profit. Some other industries ask more. They want unreasonable profits before they promise to touch anything. War profits of great magnitude have not been made on the land. We have better reason for believing that munitions plants, packing plants and some other plants which do not grow on the farm have received the big share, and with a part of their increased earnings they hired the farmer's help at prices he could not touch and left him in a more uncertain position than ever. There is room right now for some bold strokes by our legislators who, late in the day, seem ready to start something. Give the farmer the legislation which will make his position a little more certain and results will soon be apparent. He wants a fair field-legislation which plays no favorites. He must have men, he must have implements and machinery at reasonable prices, and he must have reasonable assurance that the market will pay him a price which means a fair profit on what he produces. Remember he has not piles of money to back him up if he goes heavily into his enterprise and it turns out a failure. Remember he has been bitten before and hasn't forgotten it. Remember that he is human and appreciates help more than advice or exhortation. If this country is as badly off as those who are always talking to and about the farmer would have us believe, then it is high time something were done to organize its resources and give to each its proper place as the present crisis would indicate. Talk is cheap and evidently much easier than action. And so long as it goes on as now the average farmer will do the best he can with the facilities he has, will plan his work according to his own ideas, will remember the uncertainty, will put the expenditure absolutely necessary into increasing immediate production, but will more than likely go on with his plans as before, cutting down

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up in the air to bring down enemy fighters already up, and to rain havoc on German military bases of importance.

The Allies are anxious to get more of their fighters

EDITORÍAL.

In one more month the Exhibitions will be started.

It will be profitable individually and nationally

Everybody's question to the farmer just now:

Buy all of your needs you can close home and save

It appears that certain patent medicines have a

Economy is nothing more nor less than good manage-

Threshing from the field saves some labor, but in

A few phases of advancement since the war began

Those who sold wool before the prices received for

We hope that the party splits we read about do

The man who in the spring preached production

that part of the clip sold at Guelph were announced

not cause a doubling of campaign literature. Enough

and has since practiced Weary-Willie ways may or may

not be an effective preacher-most likely not.

is going forward now, such as it is.

woman suffrage, prohibition, democracy and prices.

What you don't know about food ask Hanna.

Will your stock be ready?

to speed the plow this fall.

"Well, John, how's the crops?"

commissions and cost of transportation.

real claim to the name "medicated booze."

ment. It is bad managing when waste occurs.

catchy weather is scarcely fair to all the neighbors.

Germany cannot concentrate superlative hate on more than one country at a time. It is said that the United States is hated by the Central Powers even more than is England.

About the only difference between food speculators and plain, rough-and-ready every-day gamblers is that the latter take some chances while the former are always absolutely sure of the coin.

Democrats and autocrats, monarchists and republicans should all be satisfied in China, for the form of government changes there sometimes monthly, sometimes weekly and sometimes daily.

There is nothing like practical experience to open eyes. Some city vacant-lot gardeners who paid from \$4 to \$5 for a bag of potatoes to plant a small lot, the cultivation of which for planting cost \$3 or \$4, and who have hoed and hoed and now find Paris green is 60 cents per pound, are beginning to figure that their work has been patriotic, for from their \$7 to \$10 outlay, to say nothing of interest or rent of lot and labor, they are likely to get from 7 to 10 bags of potatoes and maybe potatoes will not be more than 75 cents to \$1.00 per bag next winter. It is a great experience. Growing stuff for sale to others is no easier. The farmer doesn't journey out to the field and pick up money. Neither does the backyard gardener. And yet both are doing good work.

Of all occupations other than that of the out-andout chance speculator, farming is perhaps the most uncertain. Even the speculator who ultimately makes good and pulls out for all time with the swag, generally is the one who leaves little to chance or uncertainty. The man who takes long chances sometimes collects big piles, but rarely does he stop at that, and on the next long shot someone else collects. But farming has so much uncertainty about it that even in normal times no one can predict what will be the reward for the labor and expense. The average farmer is sure of a fairly good living, of long days, of plenty of advice, of taxes (direct and indirect) but the maximum production of the land is limited and will continue to be limited by weather, by financial conditions, by labor scarcity and by the uncertainty as to demand and market conditions. Right now the farmer faces a more serious proposition than for many years. Uncertainty grows as the months pass by. Labor is scarce. Wages are high. He is told, and he realizes, that he should produce for food is needed, but at the same time there is a chance that his hired help, his boys, or even he himself may be called to the colors. It is not definitely settled. It is uncertain. The help he has may not be available next year, but he is asked to prepare to increase his crop acreage. A Food Controller has been appointed. Everyone hopes that his work will be satisfactory to both producer and consumer, and yet there is in the minds of those on the land uncertainty. They are not assured of prices that will leave them a safe margin of profit on production. They feel a little nervous about what may happen. No one knows what the condition of affairs will be when the war is over; no one can foretell the year or month that peace may be proclaimed

The Farmer's Advocate AND HOME MAGAZINE.

1194

THE LEADING AGRICULTURAL JOURNAL IN THE DOMINION.

Published weekly by THE WILLIAM WELD COMPANY (Limited).

JOHN WELD, Manager.

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

- 1. THE FARMER'S ADVOCATE AND HOME MAGAZINE.
- THE FARMER'S ADVOCATE AND HOME MAGAZINE. is published every Thursday. It is impartial and independent of all cliques and parties, handsomely illustrated with original engravings, and fur-nishes the most practical, reliable and profitable informa-tion for farmers, dairymen, gardeners, stockmen and home-makers, of any publication in Canada.
 TERMS OF SUBSCRIPTION.—In Canada, England, Ire-land, Scotland, Newfoundland and New Zealand, \$1.50 per year, in advance; \$2.00 per year when not paid in advance. United States, \$2.50 per year; all other countries, 12s., in advance.

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 - THE WILLIAM WELD COMPANY (Limited), London, Canada

on work that requires much extra labor and elaborating upon the system of farming which takes least labor, proves least uncertain and is more likely to return a reasonable profit.

That is the situation and talk will not change it. What class other than our noble soldiers has done more in this crisis than the farmer? Who has worked as long hours as the farmer and his family? Who takes as few holidays? Who shows more evidence of economy and thrift? Who wastes less? Who has passively

Carry the "Y" to the Country.

A movement which might well be followed up with greater effort on behalf of country boys and girls is that which the Organization of Resources Committee, through the Y. M. C. A. and Y. W. C. A., has inaugurated this year. Some five thousand boys and girls in Ontario have gone from the High and Continuation Schools out to the farm for the summer and arrangements have been made to have these looked after by local secretaries of the "Y". If all the activities of the Y. M. C. A. and Y. W. C. A. could be carried to the rual districts to the benefit of the boys and girls of the farm no one can estimate the good which would follow. The boys and girls and young men and young women in the country would enjoy companionship and games as much as do city boys and girls and the advantages of the modern "Y" extended to them would work wonders in keeping them contented and interested in the country. Farm boys and girls know how to work, but not how to play, and their facilities for the former are plentiful, while those for the latter are woefully scarce. Each district should have a public building with lecture rooms and large hall with a stage, where plays might be put on, or which could be converted into a "gym." for indoor baseball and basketball in the winter. All kinds of games should be available and the whole made a community centre. Whether it is called Y. M. C. A., or Young People's Club, or what not, the room is there to extend a good work to rural districts and it is needed.

A Little Bit More Earnestness Needed.

BY ALLAN MCDIARMID.

Going to church isn't what it used to be. That is if we can put dependence on all we hear of the old times from the individuals who are left to us of the youthful generation of fifty years ago. At that time the Sunday service was the principal event of the week and the social and religious interests of the people the greatest they had. The things of another world were taken about as seriously as the affairs of this time. In fact, the discussions and arguments in regard to it were generally more earnest, (sometimes even to the point of bitterness) than disputes about temporal interests.

For better or worse the case seems to be different now. Interest in the church and what it is supposed to stand for takes second place with the majority of our people. Perhaps this may be only a stage in the process of evolution that we are passing through, but its consequences are apt to be anything but good, for the time being anyway.

The church in the country seems to show this lack of interest even more than in our towns and cities. A good many country churches have given up the struggle for existence and are now little more than a memory to the older residents of the community. Others are dragging on a sort of a half-living existence and are of no particular benefit to anybody.

If this is a bad state of affairs it should be changed, It this can be don

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If you are to give a man advice that will do him any good you must know what his problems are.

The minister in the country church should be well enough posted on matters affecting the welfare of the farmer to be able to give an intelligent opinion on them, or to offer advice if necessary. But too many country ministers seem to think that these problems are outside their sphere of labor.

Sometime ago I listened to a sermon from one of these men, which from beginning to end had not one thing in it of any practical value to the man fighting his way through life, and continually confronted by its temptations and difficulties. What do I care what Abraham or Moses or David did under certain circumstances if these circumstances have nothing to do with the problems with which I have to deal?

What is wanted to-day is a class of men who will impress us with the true purpose in life, and the real object in working to earn more than a mere living. Far too large a share of humanity are going through the world without any clear idea of what it is all about, generally mistaking the means of existence for the end itself

To know these things and to be sufficiently anxious that others shall know them as well, is the duty of every pastor of a country church, or of any other church for that matter. This matter of earnestness is really the key to the whole problem. It is the secret of Billy Sunday's success, as anyone who has ever heard him will believe. Men are attracted to him by this, who are altogether out of sympathy with him in regard to his methods and ideas. Man is naturally a sociable animal and any kind of an excuse will generally serve when there is an opportunity to come in contact with numbers of his fellow-men. His only reason for staying away from church is usually because the service wearies him. An earnest preacher very seldom wearies.

It was the earnestness of the ministers of fifty years ago that made our forefathers willing to sit through four-hour services and come away without feeling tired. We can all recall revival meetings that we have attended at some period of our lives when churches were crowded and after-meetings found very few of the congregation ready to leave for home. This again was the result of the earnestness of some one man spreading itself throughout the community

The day is coming when religion will be the chief interest of mankind. When the things pertaining to future existence will be considered of at least as much importance as the affairs of the present life. But that day is not yet, and until it comes we must take man as we find him and use what means we have to make him better. And if our preachers are to be the instruments of this reformation the only way whereby they can fulfill their mission is to become soaked with the idea of the seriousness of life and the importance of making the most of its opportunities, up to the point where they find themselves compelled to give every day of their lives to the preaching of this gospel, and all it includes, to their fellowmen.

There is some good reason for our putting in time on this old earth, and a good many of us are willing to go a long way to listen to the man who will tell us just what that reason is.

Nature's Diary.

A. B. KLUGH, M. A.

In some sections of the country one of the most serious, if not the most serious pest with which the farmer

listened to as much advice from those in other callings? Who has faced such uncertainty?

The Importance of Farm Machinery and Repairs.

The other day a prominent Western Ontario farmer called at his local implement dealer's for some repairs for his hay fork and slings outfit. He was informed that the parts could not be obtained, and yet the firm manufacturing them is one of Canada's biggest makers of the goods in question. The man, who had prospects of a big crop to harvest with none too much help, was not pleased with the information given him. It appeared rather strange to him that farmers should be asked to increase production, and after they had responded so well should run up against the difficulty of getting repair parts for machinery and implements necessary to carry on their operations. Men and materials are scarce in many factories, but an effort should be made to make available for the farmer the machinery and implements he needs to put in and harvest extra crops. Backyard gardens mean very little compared with grain and hay fields, and mechanics working as hired men on the farm might be of more value to the farmer working on machinery or implements for him. If it is a case of no material perhaps some of the luxuries made could save a little for the necessities. Hay-fork and sling cars are almost as important as touring cars just now. It is necessary that firms manufacturing implements and machinery for farm purposes be aided as much as possible in getting material. Then it is their duty to see that the farmer can get what he urgently needs.

Dy first finding out the cause of the trouble so that a proper remedy may be prescribed.

It's easy to put the blame on some individual when anything is going wrong, and I suppose that to a certain extent it is a reasonable thing to do. In this case the ministers are apt to get credit, or blame rather, for the present condition of their churches. In a way they deserve it. Some more than others, of course. The simple trouble is that they do not take their work scriously enough. The man who is dead in earnest in his work generally makes a success of it and the same should be true of our preachers. But I am inclined to think that a great many of them do not altogether believe the doctrines they are supposed to teach, and this lack of assurance is affecting the impressiveness of their sermons. What a man doesn't thoroughly believe he can hardly compel others to believe. Fifty years ago a doctrine of rewards and punishments in a future life for the acts committed on this earth was preached, and with a good deal of effect, too. This result was due to the fact that the truth of the teaching was unquestioned by those who taught it, and it became, as a consequence a matter of more than life and death even, to them.

To-day we do not think that the fear of punishment or the hope of reward should be the greatest inducement to right action, but apparently the vital importance of living a right life has to some extent been lost sight of. The fact that the old idea of heaven and hell is not as generally held as it used to be should not cause us to lose sight of the truth of the doctrine that teaches us that right living is followed by development and progress, and that wrong doing results in degradation and discouragement. The situation is surely still vital enough when it is a matter of choosing between these two applitions. It is in reality the same old these two conditions. It is in reality the same old idea differently expressed. Of the two roads through life one leads to happiness, the other to misery. This fact should give sufficient ground for earnestness on the part of people and preacher alike, one would think. One trouble with a great many of our preachers is that they do not get into touch with the lives of their people.

has to contend is the locust, and in all parts these insects cause more or less severe damage to crops. Of locusts we have several species in Canada, and all the species are usually referred to as grasshoppers. The locusts and the grasshoppers belong to different families, and the differences between them may be briefly summarized as follows: Locusts are brownish or greenish-brown in color and have short antennæ ("feelers"), while grass-hoppers are bright green in color and have long atennæ. It will thus be seen that the insects which are often so abundant and which cause the damage are really

locusts and not grasshoppers. The life-histories of the various species of locusts are quite similar in character. The eggs are usually laid in the soil, enclosed in sacs or "pods", formed of a glutinous substance excreted at the same time that the eggs are laid. The female locust thrusts her abdomen, which is capable of considerable extension, into the soil, and starts laying her eggs at the farther end of the tunnel thus formed. The tunnel is thus filled with eggs and afterwards sealed. The egg-laying usually takes place in late summer or early fall, and the young locusts emerge some time during the following spring or early summer. In contrast with many other injurious insects young locusts, when hatched, closely resemble their parents, except that they lack wings, and the head is proportionately larger than it is in the adult. There is no grublike or larval stage, nor is there any pupal or resting stage such as we find in the case of the moths, butterflies, flies, beetles and other insects. The young locusts are active and able to hop almost immediately on emergence from the eggs. It takes from seventy to ninety days for the young locusts to grow to maturity, develop full-sized wings, and during this time they moult several times. There is but one generation a year.

Fortunately the locusts have a host of natural enemies. Several kinds of parasitic flies deposit their eggs upon the mature or nearly mature locust. Robber flies feed very largely upon young locusts, grasping them with their long, stout legs thrusting their long beaks into the body and sucking out the body fluids. Several kinds of digger wasps kill or stupify locusts by stinging them and then drag them into their underground nest, NDED 1866

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THE FARMER'S ADVOCATE.

after which the wasp lays an egg upon the body of the locust which subsequently becomes food for the newly hatched wasp grub.

The investigations of the United States Biological Survey have shown that birds play a great part in the control of locusts. These feathered friends of man are always present where locusts abound and work continuously in aiding the farmer. The statement that all birds feed upon locusts is so near the absolute truth that it needs only insignificant modifications. From the largest hawks to the smallest birds there are no exceptions other than the strictly vegetarian doves and such strictly aquatic birds as the loons and grebes. Although birds of nearly all families prey upon locusts the following may be selected as the most important species in this work: Bobwhite, Prairie Chicken, Red-tailed Hawk, Red-shouldered Hawk, Broad-winged Hawk, Sparrow Hawk, Screech Owl, Yellow-billed Cuckoo, Red-headed Woodpecker, Kingbird, Horned Lark, Red-winged Blackbird, Bronzed Grackle, Meadowlark, Shrike, House Wren, and Robin.

Domestic fowls are also very fond of locusts, and feed greedily upon them whenever possible. Turkeys are sometimes killed by feeding too freely on locusts, the strong, rough legs of which cause severe lacerations, or even puncturing of the crops of these birds.

Locusts are most troublesome in parts of the country in which there is much "wild pasture", that is land which has been cleared and allowed for many years to run to grass, and this is just what we should expect from what we know of their egg-laying habits, since tillage breaks up the egg-cases and thus destroys the eggs. In such regions they sometimes become so tremendously abundant as to constitute a plague, eating up all field and garden crops, the leaves of bushes, the lower leaves of the trees, even the bark of bushes and young trees, and biting into the wood of fences, the sides of houses, and handles of forks, rakes and other implements. I have even known them to eat into the grains of corn before it could be harrowed in when this crop was being sown in an effort to provide some fodder for the stock in a region in which they had already destroyed all other

crops. The best remedy for locusts is the use of poisoned bait prepared as follows: Wheat bran, 25 pounds; bait prepared as follows: Wheat bran, 25 pounds; Arsenic, 1 pound; 6 finely-chopped oranges or lemons; molasses ("Black strap"), 2 quarts. This should be distributed broadcast over the fields in the early morning in dry weather. It takes from one to five days for the full effect of the bait to become apparent.

THE HORSE.

Bone Diseases in Horses. Ostitis.

Ostitis, inflammation of a bone, is usually accompanied by periostitis (inflammation of the immediate covering of the bone which is called the periosteum). It may be acute or chronic. It may involve the whole substance and extent of the bone, or be confined to a portion of it (circumscribed inflammation.) The causes are external injury, as a bruise caused by a kick, or blow from any blunt substance which usually does not cause an open wound, concussion or hereditary tendency

Acute inflammation of bone, involving the shaft, is frequently seen in young race horses in a disease known may

exudate into bone) occurs, it will retain its elastic feel underneath the oedenia.

If the exudation underneath the periosteum is very great and the swelling involves a large extent of the surface of the bone, the most active treatment must be employed to prevent death or decay of the bone. In rare cases the exudate becomes converted into a thin, somewhat fluid material which corrodes the surrounding tissues, causing great febrile disturbance, and may cause the death of the patient from its absorption into the general circulation. In the less acute cases, where the cause has been less severe, the symptoms are correspondingly less acute; the disease is more circumscribed and more limited in its extent, or the limbs of the animal have been more able to bear it; it becomes ultimately quite hard, by the conversion of the exudate into bony matter and when this is effected the lameness and pain usually disappear.

Treatment.-In very severe cases it is necessary to cut through the skin and periosteum to allow escape of the exudate in order to prevent a separation of the periosteum from the bone. This operation, of course, should be attempted only by a veterinarian. In a very large percentage of the cases less heroic treatment will suffice. The patient should be given complete rest in a comfortable box stall. It is good practice to give a laxative of one to one and one-half pints raw linseed oil and feed on laxative food. Hot poultices, or longcontinued bathing with hot water with the frequent application of an anodyne liniment, as one made of one ounce acetate of lead, two fluid ounces of laudanum and six fluid ounces of water to the parts, will, in most cases, relieve the acute pain and soreness in a few days, after which the application two or three times daily of a stimulant liniment, as one made of two fluid ounces each of alcohol, oil of turpentine, and liquor ammonia, and one pint of water, will tend to reduce swelling and remove lameness. The enlargement that usually remains after all tenderness and lameness have disappeared can be reduced to some extent by the use of absorbents, as a liniment made of four drams of iodine and iodide of potassium and four ounces each of alcohol and glycerine, well rubbed in once daily.

WHIP.

What Records Show.

In 1916, twenty-one States of the United States had stallion enrollment laws. We present the stallion enrollment data for twenty.

The detailed figures, all of which are taken from records made in 1916, except for Nebraska, where 1914 statistics were the last available, show 55,806 stallions all told; 41.86 per cent. of these were grade or mongrel stallions, 9.23 per cent. were pure-bred stallions of light horse breeds, and 48.88 per cent. were pure-bred draft stallions. There are in these twenty States approximately 90 mares of breeding age to every stallion licensed for service. It is acknowledged that grade and mongrel stallions ought not to be relied on. They are not used where good pure-bred sires are sufficiently numerous to convince farmers that it pays to avoid grade or mongrel stallions regardless of the difference in service fee.

A comparison of this data with that complied in preceding years shows that there has been a steady decrease of grade stallions, and in no State has there been an increase in these undesirables. Pure-bred stallions of light horse breeds have also decreased in proportion to the total. Pure-bred draft stallions, alone have draft horse producing States, Percherons constitute 60.68 per. cent. and 69.32 per cent. of all pure-bred draft sires. In the entire twenty States, 66.49 per cent. of the pure-bred draft sires are Percherons.—WAYNE DINSMORE, Sec., Percheron Society of America.

LIVE STOCK.

Give Young Sows Time to Develop Before Breeding Them.

Not everyone can breed and feed hogs successfully. There is a science about it that some stockriften find it impossible to acquire. They breed, feed, and house according to the most approved methods, and yet they do not get size in their pigs, nor are they able to make economical gains. Is it possible that the fault is in the management? One man has marked success while his neighbor goes out of hogs because there is no money in the business. A good deal depends on the feeder. He must not overfeed nor yet underfeed. He must pay attention to details and cater to the wants of the Throwing a quantity of feed into the trough is herd. not feeding in the true sense of the term, and failing to pay attention to minor points is the cause of many failures. Some have hogs weighing two hundred pounds at six months of age, while with others it takes seven or eight months. A difference in the breed may have something to do with it, but feed and management also play an important part. It is quite easy to overfeed young pigs. We have known it to be done on skimyoung pigs. We have known it to be done on skim-milk alone. Then, too, it is necessary to feed a ration which tends to promote development of bone and muscle. It is growth that is wanted the first four or five months of a pig's life, and this cannot be secured on grains which are rich in carbyhodrates but low in protein. These two nutrients along with ash must bear a definite relationship to each other in order to secure desired results. It is oftentimes necessary and profitable to purchase certain feeds to combine with home-grown grains. Skim-milk is one of the best feeds to give young pigs a start, but on many farms it is not available and some substitute must be sought for. Tankage has been found to take the place of milk to a certain extent. Whey is a substitute in cheese-factory districts, and if pasteurized and properly fed gives excellent returns.

Too many breeders are so anxious to get returns that they breed young sows before they are developed. The result is that the sow never turns out to be what she would have had she attained her growth before farrowing. The value of not breeding too young is clearly in evidence at Macdonald College where Prof. Barton has met with exceptional success in hog raising. Two breeds are specialized in and breeding is confined to two families in each breed, in an endeavor to bring the herd to as near perfection as possible. By careful selection and mating of breeding stock Prof. Barton has developed a strain of Yorkshires and Berkshires that develop quickly, have the desired lines and conformation and meet the demands of the bacon industry. success has not been achieved in a day, nor a year, but is the result of continued careful work in selecting the stock and in feeding. It is quite easy to keep in the same breeding channel on the dam's side, as young sows can be saved from the best litters, but to keep boars from these litters would be in-breeding, which is not advisable except in isolated cases. Therefore, while it ary to secure boars from other herds Prof Barton prefers to have them from the same blood channel. At any rate there must be a resemblance in character. A young boar is always secured before the herd sire is past his usefulness. This affords an opportunity to look around in order to pick the individual

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of locusts re usually ormed of a e that the abdomen, to the soil the tunnel eggs and akes place ng locusts g or early urious in-mble their ne head is lt. There any pupal the moths, The young nmediately n seventy maturity, hey moult ear.

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as a result of concussion caused by fast driving on hard oads, or from galloping on hard ground while at play. This disease usually involves the periosteum and external layer of the bone only, and usually terminates in a deposit of lymph being thrown out between the periosteum and the bone, which, becoming organized, for ms a permanent thickening, depending or less upon the degree of the diseased action, but in rare cases the whole of the bone is affected and the inflammation is of such an acute nature that the vitality of the bone is destroyed. The exudate thrown out as the result of the inflammation may, if the case be treated promptly, become absorbed and the bone regain its normal condition, but in most cases a greater or less portion of it becomes converted into bone, leaving the parts permanently enlarged and altered in appearance. The bones of young animals, being in a state of development and growth, are more vascular, (more plentifully supplied with blood) and contain a greater quantity of animal matter than the bones of those of mature age; they are consequently unable to stand with impunity the same shocks of concussion or direct injuries.

Symptoms .- If one of the bones of a limb be the seat of injury, there will usually be more or less lameness, probably slight at first, but gradually becoming more acute. The patient shows restlessness if both legs be involved, as will probably be the case when the trouble is caused by concussion; he will shift his weight from one foot to the other and probably seek ease by lying a great part of the time. If but one limb be involved he will usually stand with the foot of the affected limb pointed and sustaining little or no weight. the inflammation be acute there will be well-marked increase of temperature, with acceleration of the pulse and heavy, frequent respiration, and the parts involved will be hot and sore to the touch. Swelling is an early symptom and is usually quite well-marked. At first it is somewhat elastic, tense and doughy to the touch. This is due to a thickening of the periosteum and the presence of an exudate between the periosteum and the bone. Afterwards the swelling may become œdeniatous and hard, but unless ossification (a conversion of the

There are, in these twenty States, 69 Suffolk, 1,275 Clydesdale, 2,006 Shire, 2,114 French Draft, 4,212 Belgian, and 19,199 Percheron stallions. Percherons, in every State, outnumber all the other draft breeds combined. In Iowa and Illinois, the two greatest



A Neat Fence and a Good Windbreak Improve Farm Appearances.

1196

he is fully developed.

of age.

hams and were remarkably strong on their pasterns.

an opportunity to take milk, or some substitute thereof,

from a separate trough from that in which their mother

is fed, consequently when they are weaned they go right ahead. Paddocks are provided in which sows and their litters are allowed to run. There is not always sufficient milk to give the little pigs the proper

amount after they are weaned, and tankage is used as a

substitute and gives fairly good results. Shorts, or middlings, are fed the young pigs, and the aim is to keep well within their appetite. Overfeeding results in loss in the piggery. The trough should be cleaned

to become well developed before being bred.

The Stock Bull in Summer.

THE FARMER'S ADVOCATE

How Are Your Calves Doing?

that will mate satisfactorily with the females on hand. If all breeders would follow this practice diligently there We are hearing a good deal these days, particularly from people who know little of farming conditions, would be more general improvement in type and quality about the slaughter of calves, and evidently those who think that such a practice should be prevented have not had much experience in feeding some of the poorer calves to maturity. From now until the cooler weather comes in the fall is rather a difficult time with pailof hogs throughout the country. What Prof. Barton has done with two breeds other breeders can do, but it will never be accomplished by buying breeding stock promiscuously without paying attention to the characcomes in the fall, is rather a difficult time with pailter of the animals. A boar may be a winner in the show-ring and have excellent conformation, but yet not fed calves, and it is not easy, sometimes, to keep even mate with your sows to produce the type and quality of offspring sought after. There are too many poor sires used, and yet stockmen wonder why they do not those which nurse their dams growing as the owner would like. All feeding utensils from which they obtain milk or drink must be kept clean, and during the hot have greater success in breeding and feeding. If a weather it is preferable to keep the youngsters inside breeder of pure-bred swine, don't be influenced by one during the day, having the windows carefully darkened by tacking some old sacking over them. This will be found useful in preventing the ravages of flies. At night or two points when selecting a boar; look around until you find one which has character and is particularly strong where the sows are inclined to be weak. If a they might have the run of a good grass plot if available. If not, they should have plenty of green feed brought young hog is purchased, avoid overworking him until from the field to keep them thriving well. Red clover and alfalfa are two of the best fodders for this purpose, At Macdonald College the sows are bred to drop their first litter at from ten months to a year old. By and may be used to good advantage until corn is big this method the breeding stock attains a good size, and enough or some early roots are available. A few rolled the offspring are strong and uniform in size. It is unoats will give good returns fed to the calves during this reasonable to expect a young, under-developed sow to season. It does not take big feeds to show results, farrow a large lifter and feed it properly. At the time our representative visited Macdonald College a but regularity, cleanliness and comfort should be the main points in caring for the spring calf crop during the hot weather. Keep them away from the hot sun number of the 25 sows kept were nursing litters of ten or a dozen thrifty pigs without a runt in the bunch. Individuals of both breeds had long, deep sides, full and the flies; give them plenty to drink from clean pails or troughs, and an abundance of green feed with rolled oats twice a day, and they should come on very well. The pigs are weaned at from six weeks to two months Pail-fed calves should not be called upon to take their At this time they are taking considerable feed. chance in the field with the cows or older cattle. When they are a couple of weeks old they are given

> you may notice from time to time one in the flock lower its head, stamp vigorously, and run with the head down for some distance, after which it will remain quiet for a short time and probably repeat the performance. This action is an indication that the sheep gad fly is about and is attempting to lay its eggs in the nostrils of the animal, where the eggs finally develop into the

Prevent Grub in the Head. At this season of the year, if you watch the sheep **Recommendations of the Third In-**In view of the world shortage of cereal food crops which is likely to continue for an indefinite period, the Third Interstate Cereal Conference held at Kansas City, Mo., June 12-14, urges the greatest practicable

FOUNDED 1866

THE FARM.

A Grocery on Wheels.

Most of our readers remember the days when the pack peddler made his rounds through the country, The children and even the older folks were always anxious to see his big bundle unfolded, for it contained everything from household utensils to playthings and trinkets. Then came the peddler's wagon with tins, crockery and what-not. Horse hair, butter and eggs and some silver were exchanged for these. Both the pack and the wagon peddler have vanished. The huckster gathers the butter and eggs. Telephones have made it possible to order from the home and in some sections the store keeper delivers, as is done in cities, Rural mail delivery has increased the mail-order business of the big departmental stores. The advent of the automobile has made it possible for the farmer and his family to slip into town at almost any time and get their supplies. And yet there are times when the busy housewife could make some use of a daily delivery on a large scale. To meet this a business man in Arkansas has started a motor store which consists of a two-ton motor truck like a large moving van. It carries all the goods of an ordinary country store and backs up to the farmer's door and the housewife shops at home. It is fitted up with shelves and counter and the purchaser buys as in any grocery store, only it is a cash business. Tanks are carried at the rear for kerosene and gasoline. Two chicken coops swing underneath. Refrigeration is supplied for meats and perishable goods, and the whole makes quite an up-todate store on wheels

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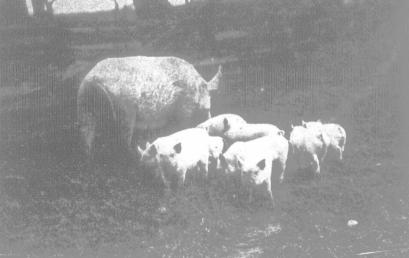
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enlargement of wheat acreage and would further make the following recommenda-(1) To encourage a larger wheat production, the producer should be guaranteed a minimum price, such price to continue at least

one year after war is ended. (2) Early preparation of the land for small grains, where these do not follow cultivated crops, should al-ways be practised. In the winter wheat area it is very important that this be done immediately after harvest.

(3) Immediate action is required in providing seed for the next crop. At harvest time it is cheapest, and just before harvest seed in large bulk can best be selected. State and federal aid will be given in locating

at each feeding and the pigs squealing for more by the time the next meal comes around. The pigs which are fattened for market are fed a mixture of grains, with barley possibly predominating, as it is found that this grain gives satisfactory results when mixed with some of the other cereals. The system of breeding and feed-inf followed by Prof. Barton has resulted in the building up of a fine herd. Breeders in general might profitably follow his practice of allowing the breeding stock This is the season when the care and management of the stock bull presents the greatest problem. At no other time in the year is he so likely to become rest-less and fall in flesh as during the summer months, particularly through the very hot weather. His management may be more easily accomplished if the use of a large paddock of good grass is available, in which he may be run, preferably at night. He should be kept in during the day in a darkened stall and away from the flies, and to ensure that he is not pestered with the latter it would be well to give him an application regularly



covered during the daytime. If he is kept in a well ventilated stall this is probably the best method o keeping off flies for some of those who have tried repellents believe that the oily nature of these clog the pores and may cause the animal as much annoyance as the flies would otherwise do. However, it is important that the flies be kept from tormenting the cattle, and particula.ly the stock bull. If it is decided to use a repellent one may be made as follows: Fish oil, 1/2 gallon; coal 1/2 pint; crude carbolic acid, 4 tablespoonfuls, mix and apply to all parts once a week. There are other simple, home-made mixtures or, if thought advisable, some proprietory mixture such as advertised in these columns might be used. We say again, however, that we would favor for the bull a sheet, provided he has a cool and well-ventilated stall.

with some fly repellent, or some believe it is better still

to make a covering sheet of cheap cotton and keep him

Too many stock bulls are allowed to go down in the summer through lack of green feed and necessary care in feeding such as is given when all the stock are in the stable. It is important that the bull get green feed regularly, and if arrangements are not made that he can pick this himself in the paddock it should be cut for him, and he should get at least two feeds of it per day. A light grain ration, preferably of crushed oats, would help keep him up in condition, and exercise is absolutely essential. No man who keeps a good bull should be without a regular bull paddock in which the bull should spend every night in summer and the greater part of every day in winter.

Estimated Numbers of Live Stock in Canada.

It is estimated from the reports of correspondents that the numbers of farm live stock in Canada on June were as follows: Horses 3,035,254; milch cows. 2,642,709; other cattle, 3,325,013; sheep, 2,009,717; and swine 2,513,526. This is an increase over last year for all descriptions, excepting swine, which are less by over 300,000. The decline in numbers of sheep, which has been continuous annually since 1913, appears to be arrested, the increase shown this year being over 44,600.-Census and Statistics Office.

Little Fault Can Be Found with this Litter.

larval stage in the form of a grub or worm, producing a disease commonly known as grub in the head which usually makes its appearance some time during the following winter. All sheep affected do not show clinical systoms of the disease, but some may be noticed in the winter staggering, becoming thin, and finally emaciated. Water may run from the eyes and the sheep will be noticed shaking its head from time to time.

At this season sheep owners should be interested in preventing the fly from laying its eggs in the nostrils. The insect is small and of grey color, about the size of a common house fly, and works usually in bright sunlight. The best method of prevention is tokeep the noses daubed with some repellent substance. Common pine tar is often used with good results but is more effective if mixed with an equal quantity of lard and oil of tar, crude carbolic acid or coal tar dip, and is made even more obnoxious still if a little iodoform or asafœtida is mixed in. The best way to use the mixture is to smear it upon the margins of holes made six inches deep, with a two-and-a-half inch auger in a squared log and kept filled with salt and primed with the smear daily throughout the season when the fly is likely to attack. This arrangement ensures thorough daubing for the sheep's moses each time they come to the salting place for a lick of salt. Even the pine tar alone used in such a way would be found quite effective. If the daubing is to be done by hand it will be necessary to apply the tar at least twice a week. It should be remembered that prevention is better than cure, for the latter is hard to effect.

Germany views the American army with contempt, but then it isn't long ago that they called the British forces "Kitchener's contemptible little army". Perhaps the "Sammies" will soon change contempt to respect as the "Tommies" have done. It is a safe bet that they will anyway.

tive abundance for use in localities where it is sorely

needed. Clean seed, as free as possible from diseases, should be selected and arrangements be made for seed

(4) Varieties of grain best adapted for the locality should always be used. The agricultural colleges and other state agricultural agencies will inform the farmers of the existence of these varieties and how and where to obtain the seed.

(5) Every means should be employed to eliminate weeds, by use of clean seed, crop rotations, early cultivation above mentioned, and any special methods reliably recommended for particular weeds in different localities.

(6) Seed testing for germination can well be further emphasized at this emergency period. The extension service, through county agents, should bring this matter home to every farm.

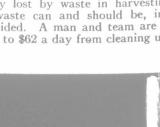
(7) Seed treatment will largely prevent certain smuts and other diseases of cereals, and as a real war measure, we are bound to see that it is applied as nearly as possible on every farm, thus increasing our cereal production a hundred million bushels or more, in one season. By field demonstrations the methods can and should be made plain to all concerned.

(8) The possible ravages of Hessian fly, chinch bug, green bug, stored grain and mill products insects, etc., must also be kept in mind, and the progress of and means of checking these insects be communicated, so far as possible, in advance of their local occurrence.

(9) As a means of reducing the great loss from rust, it is urged that all common barberry bushes (not the Japanese) and grass weeds harboring cereal rust, be eradicated, and that rust-resistant cereal varieties be grown, if otherwise of good quality.

(10) It is a conservative estimate that 20 million bushels of wheat and proportional quantities of other cereals are annually lost by waste in harvesting and threshing. This waste can and should be, in large measure, easily avoided. A man and team are known to have cleared \$27 to \$62 a day from cleaning up after

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threshers, and in another instance last year in Kansas \$500 was gained by a man, with a team and fanning mill, cleaning up after threshing machine settings, in three weeks' time.

(11) In the western and southwestern plains, grain sorghums should be widely planted. In the northern plains, in the drier districts, flax and, under certain conditions, proso or Russian millet, may be used to a similar advantage.

(12) Suitable catch crops (such as cow peas, soy beans, sorghums, millet, flax and buckwheat) should be grown on all lands on which staple crops can not be seeded at the proper time or on which they have been destroyed.

(13) The increased use of corn, rice, grain, sorghums, proso, barley, rye, beans, cottonseed meal and peanut meal as substitutes for, or in conjunction with, wheat for human food is strongly recommended. Information on this matter can be obtained through the state agricultural colleges and the United States Department of Agriculture.

Seven Million Men Killed.

Arthur Henderson of the British War Council estimates that seven million men have been killed so far in the war.

The war originated in a quarrel over Serbia. But the entire population of Serbia was only two million and a half. France came in to recover Alsace-Lorraine. But the entire population of Alsace-Lorraine was less than two millions. England came in to rescue Belgium. But the entire population of Belgium was only seven million and a half. The number of able-bodied men in all the disputed territory in Europe is less than the number that have already fallen in the struggle for its possession. The total casualties of the war exceed the whole population of Great Britain and Ireland. As many young men have been crippled for life or severely

wounded in Europe as there are of the same age in all the United States.

Mr. Henderson adds that "there is no immediate prospect of a cessation of hostilities." There is still the United States to draw upon.—N. Y. Independent.

A Slack Time.

BY CLAYTON DUFF.

Between roadwork and hayin' there's always a spell When things is quite slack, so you'll hear farmers tell, Though the warm sun of June has made everything grow. The roots isn't up far enough yet to hoe; The cattle's in pasture, no chores to be done, So this is the time farmer folks has their fun, And often and often I've heard farmers sayin' It's a slack time of year between roadwork and hayin'.

Of course, there's a few little things to be done, The chimney has got to be mended, for one; And this is the time many farmers is seen To be paintin' the house white with trimmin's of green. A new cement walk must be laid to the gate, The old kitchen roof has been leakin' of late; There won't be a chance to mend that before sleighin' If it isn't done now between roadwork and hayin'.

It's the best time for meetin's, the women have found, 'Cause the men ain't too busy to drive 'em around. They're willing to come with a wagon and team To haul chairs and tables and turn the ice cream. And if there's a bee to put up a new fence Round the minister's lot so's to save church expense, The pastor don't need to do much extra prayin', They're sure to turn out between roadwork and hayin'.

For picnics, lawn socials, the same is the rule, Or what little doin's they have at the school, While everyone aims so's to sandwich between A day cuttin' wood with the sawin' machine. And now that these motors has come into style, There's a trip in the car every once-in-a-while To visit old friends who insist on you stayin' For times is so slack between roadwork and hayin'.

I'd Like to be a Hobo Gay.

I'd like to be a gay hobo, a reaping things that others sow; I'd like to eat the bread of life without the work and fuss and strife. I'd like to sleep beneath the stars and ride the bumpers on the cars, I'd like to shun the horrid wars, I hate the sight of blood and scars. I'd like to go when going's good-I'm sick of chores and sawing wood. I'd like to leave the snow and cold, my blood is thin, I'm growing old. I hate to lug in wood and coal, I'd rather hunt a swimming hole or with a wabbly willow pole find ease and quiet for my soul. Why must I work the livelong day a plowing spuds and making hay? The hobo lives and doesn't work—if I lay off I'm called a shirk. Ten hours a day my normal stunt no wonder I am such a runt: don't my normal stunt, no wonder I am such a runt; don't have time to eat enough to put fat on my carcass tough. And when I wend my weary way, homeward at last at close of day, my good wife meets me with this lay: "The front screen door is on the bum, a million flies inside have come. The chicken fence has busted out, the hens have found it isn't stout; they've scratched the beans and dug the peas; the cherry slugs are in the trees. Then after supper cut the grass, and find your wrench, the stove leaks gas; the wash line sags, the bedstead squeaks, canning time's here, the boiler leaks." I'd like to read the daily news, I'd like to revel in the views of sunsets rare and gorgeous hues. It's not for me, and so I'd be a weary Will and take my fill of doing nothing but set still.

W. E. VAILON.

1197

Canada's Young Farmers and Future Leaders.

Don't Neglect the Crop Entered in a Competition.

In many counties of Ontario young men who have attended short courses, conducted by their District Representative, have the opportunity of entering competitions in growing cereal crops, potatoes or roots, or in hog feeding and calf raising. These competitions commence in the spring and enthusiasm is likely to run high with most young men. They are in a competition with men of their own age and standing not only in their county but throughout the Province. Preparing the soil, securing the seed and sowing or planting, is interesting work, and the young 'man knows that the better the seed-bed and the higher the quality of seed the greater the chance of winning out, other things being equal. Having made a good start it should be comparatively easy to keep up the good work throughout the season. However, as summer work increases and outside attractions become numerous there is a likelihood of interest in the special crop lagging. In fact, this is exactly what has taken place in more than one instance. The weeds grow up and are allowed to flourish, blight and bugs invade the potato patch and before long the ideal plot in the spring takes on a dilapi-dated appearance, all due to the waning interest of the competitor. The same is true with the hogs and calves. No matter how good a start is made, satisfactory results cannot be expected unless attention is given throughout the season. It is regrettable that the interest of so many of the competitors lags before the competitions close. In some counties there have not been sufficient entries in the running at the end of the season to allow of prizes being offered according to the rules and regulations. Did it ever occur to you that in neglecting your plot or dropping out of the com-petition you might make it so that your chums could not secure a prize? If you start in the competition stay with it, even though the elements are against the best interests of the crop. Do your part by keeping down the weeds and applying material to check bugs and disease. In case of stock, feed to keep the calf or hogs growing, and continue keeping strict account of weights of feed. You may know that you cannot win against your neighbor, but it is your duty to finish the

probable, that this disease will be rampant this fall, if the present hot, muggy weather continues. There is a way of preventing this trouble. By coating the leaves with Bordeaux mixture and keeping them coated, the spores of the disease have little opportunity of getting in their deadly work. Where potatoes are grown on a commercial scale a power sprayer is used, but for an acre plot the work could be done with a hand sprayer carried on the back of the operator, or else on a wheelbarrow. It is necessary to obtain a fine spray and to thoroughly coat the leaves above and underneath. It will require three and probably more applications, de-pending on the weather, but it is worth while even if bluestone is high in price this year. It may mean the difference between a good crop and failure; between winning the prize and coming low in the list. The young men who take every precaution to ensure a crop deserve to win. If you do your best but do not reach the top you should have no regrets.

In the case of live stock considerable work can be done to promote growth and thriftiness without adding too much to the cost of production. In all these competitions the cost of work, etc., as well as the appearance of the crop or stock is taken into consideration and rightly so. If feeding a pen of pigs it is necessary to give them a mixed ration which will furnish carbohydrates, protein and ash in the proper proportion for the rapid development of the hogs. Care should be taken to keep the pen clean at all times and economical gains can be made with the hogs on pasture, which will displace a considerable quantity of grain in the ration. Clover, alfalfa, oats and peas or rape make excellent pasture crops for swine. If you are not in a position to allow the hogs to run in these crops, good results have been obtained by cutting green feed and put-

ting it in the pen. This entails a little more labor, but the pigs do better if they have a little green feed than if they are forced to subsist entirely on grain. Pigs are very fond of lamb's quarters, a weed which is found growing around many buildings. Instead of hoeing this weed and allowing it to wilt in the sun, it might be turned to profitable use if fed to the hogs. Some feeders soak the grain, others feed it dry and have water in a separate trough. Both methods give good results. In case of feeding a calf it is essential that the feed and care be such that growth will be continual. If from lack of proper feed the calf gets a slight setback it is difficult to overcome it. Skim-milk or whole milk is the ideal for all on the first part of the set of the is the ideal feed for calves, but if given a large portion of this liquid the cost of raising the calf is fairly high, therefore, certain roughages and concentrates should be added to the ration. Ash and protein are two food constituents which go to produce bone and muscle and feeds which contain large proportions of these should enter largely into the ration. Legumes make the best roughages while rolled oats and a little linseed meal may constitute the concentrates. If the calf is getting a considerable quantity of skim-milk the ration will be more nearly balanced if a little cornmeal is fed. If possible the calf should be given the run of a paddock ied with shelter during the heat A little later, green corn, mangels or turnips could advisedly be fed. Teach the calf to lead and have it so that it will not be afraid of you. Use the currycomb and brush frequently as their use helps to keep the animal thrifty and gives it a good appearance. Your success in these competitions depends a good deal on yourself. Good judgment in selecting the stock to feed or grain to sow is essential, but this will not make up for lack of care during the growing period.

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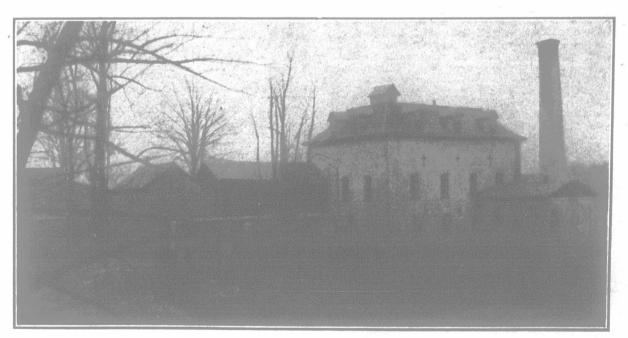
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20 million s of other sting and in large re known g up after Even yet a good deal can be done to improve the crop. If it is oats, see that weeds do not have an opportunity to rob the crop of moisture and plant food. Little else can be done to aid this crop, but with corn, potatoes and roots, where cultivation plays an important part, much can be done. There are few crops that respond to cultivation as does corn. Run the cultivator through it every week if possible up to the time it tassels out. Time may also be found to go through it with the hoe and cut out weeds growing in the rows. Cultivation is also essential with the potato crop, but another way of ensuring a good yield is to spray with Bordeaux to which some poison has been added to destroy bugs. Some seasons late blight exacts a heavy toll from the potato patch, amounting to practically the entire crop in some sections. It is possible, in fact



The County Grist Mill.

Automobiles, Farm Machinery and Farm Motors.

Motor Types.

1198

What is a valve-in-head motor? This question is often asked in garages, salesrooms and at automobile shows throughout the country. We shall endeavor to answer it in this article.

A valve-in-head motor gets its name from the fact that the valves, through which the gasoline passes to the cylinders and also leaves them after combustion, are located in the tops, or as they are sometimes called, in the heads of the cylinders. Because of their appearance, it is very easy to recognize motors of this It is claimed, for the valve-in-head principle, that the gasoline has an easier entrance and that the exhausting of the burnt fuel is not difficult. You may not be fully cognizant of the fact, but nevertheless it is true that power plants derive their energy, for the driving of an automobile, from heat. This is indisputable, no matter of what construction the engine may be. In valve-in-head models the heat is conserved by water jackets evenly distributed around the cylinders. The gas which is used to develop the heat, passes through the carburetor and is mixed with air. The new combination then finds its way to a cylinder with perpendicular sides, and it is on the top of this cylinder that the valves are located. When the charge of fuel explodes, the resulting heat can only escape by pushing the piston down or by getting through the cylinder walls into the water, or in the winter-time water and alcohol, used to cool the motor. Of course, the major part of the energy exhausted in the escape, goes against the top of the piston and propels the car.

There are also a great many people who wish to know what an L-head motor means. The name almost supplies the answer, for a motor is called an L-head that is, shaped like an L, the horizontal part projects at the top and not at the bottom as some amateurs think. In this system of construction he valves are placed in small compartments alongside the upper section of the cylinders. The T-head motor also derives its name from its shape, but in this instance, instead of small compartments put on one side of the tops of the cylinders, they are on both sides. Of course, the compartments are water jacketed the same as the main part of the cylinder itself.

While it is true that valve-in-head motors are used exclusively in airplane engines, which of course require maximum speed and safety, there are still many fine arguments that can be advanced in favor of L- and Thead types. Great dependence should be placed, not only upon the motor which you choose but even more reliability should attach itself to the company behind the car. When you are making a study of motor mechanism, you should have in mind the ease with which gasoline can be introduced to a cylinder and the facilities by which it can be expelled. The highest efficiency is attained when you have a system that allows a quick entry and a rapid exit. It is not difficult for you to comprehend the situation when you realize the number of revolutions that a crank shaft must make. Back of the revolutions must be some method guaranteed to develop terrific speed. Anything that is not uniform or that tends to make difficult the operation of the mechanism, is going to be a decided disadvantage.

The situation, in so far as internal combustion engines are concerned, was slightly complicated for a short time when the grade of gasoline supplied by the big refineriers fell off, owing to the fact that they were compelled to provide great quantities of this volatile fuel from crude oil. In the old days, only a small percentage of the crude was used for gasoline, but market conditions are such that a very stiff crushing process must now take place with all crude oil in order that the maximum amount of gasoline may be produced. To secure this maximum, the quality of the gas has been lessened. This problem has made the manufacturers develop a number of changes in their power plants. A new system has been devised whereby engines will heat up rapidly. A dead engine finds it difficult to handle anything but a high-test gasoline, but a quick heating power plant can soon accustom itself to a fuel of low order. Butterflies on the carburetors, thermostats on the generators, closer air control by gauges, and a number of other diverse systems have been brought into play. Success has crowned the efforts of the manufacturers, as is evidenced by the fact that to-day motor cars have increased efficiency, despite the fact that they are compelled to operate with fuel that is much below the standard marketed only a few years ago.

AUTO.

General Binder Troubles.

Some binder troubles can be traced to improper assembling. Special care must be taken to observe the following points:

1. The bull wheel must be set straight in its quadrants, otherwise, heavy draft and bearing troubles will result

2. When the bull wheel has been entered correctly, replace the bolts in the holes at the bottom of the quadrants and rivet the ends to prevent them from being lost. This precaution, will eliminate any possibility of the operator getting the bull wheel out of the quad-rants, and, therefore, will never get it back at an angle.

3. As a general rule, place bolts so that the nuts will be in view and therefore, readily noticed should they work loose. This rule cannot be followed invariably, but do so whenever possible and there is no good reason for placing them any other way

4. Put plenty hard oil on the ends of the rollers before they are put in place.

5. As soon as the rollers are in place, see that they are square. Measuring from corner to corner, with a reel slat, the distance from opposite corners should be the same. If it is not adjust the tie rods

6. When the butter has been put in place, pour in kerosene on the bearings to ensure easy working, turn the upper roller of the lower elevator by means of monkey wrench on the sprocket.

Run all sprocket chains with the open end of the link ahead and out.

8. Run the binder around the yard several times before taking it to the field, oil all bearings well with kerosene to cut out the paint, find every oil hole so that they will be attended to in the field later on.

If the Machine Fails to Start.

Sometimes a new machine will not start. Throw it out of gear and try it again, this will test the bull wheel

Throw the machine into gear, remove elevator chains, and start again. This will test the shafts, sickle and packer shafts. Then throw off the reel chains, replace elevator chains, and start again. Thus, the elevators may be tested. While the reel chains are off, test the reel by hand. By this method trouble may be located quickly.

Chain and Gear Troubles.

Undue wear on chains may be caused by the chains being on too tight or backwards. Hook shaped sprocket teeth will break chains. This shape is caused by running the chains with the bar of the link first. The cutting out of gears between the countershaft and the crankshaft, is caused by (1) improper meshing between the gears, or (2) the use of oil on gears in dusty land. There is an adjustment on the inside end of the countershaft by which the shaft can be forced toward the crankshaft, thus making the teeth mesh close enough to prebut not deep enough to cause "bindstripping," ing". When the soil is very sandy and the bull wheel throws dust all over the machine, do not use oil or grease on the main frame gears or chains. It is better to run them dry or better still use dry or flaked graphite.

Canvas Creeping or Broken Slats.

Caused by the elevator rollers not being square.

Rollers Binding.

Adjust tie rods and braces. If it binds at sprocket or gear end only adjust the box at that end. It has been improperly inserted or the wrong bearing has been used.

Roller Wrapping.

This is a trouble found at the front end of the inside platform roller. If the wrapping is composed of short straws, the outside end of the platform is higher than the inside, resulting in short straws being cut off and getting below the canvas. If the wrapping is composed of green stuff, raise the machine or tilt up a little.

Heavy Draft.

Poor lubrication, tight chains, or the bull wheel carelessly entered in the quadrants are the chief causes. (See precaution for assembling.)

Side Draft.

Side draft is most often caused by grain wheel difficulties. In old binders, see that the roller bearings are in good shape. If a grain wheel has been twisted by hitting a gate post, side draft will result. When a machine is new the grain wheel is set at an angle to the platform 1/2-inch nearer in front than in the rear. fast horse on the outside will often make an operator think there is a side draft.

To make good bundles, the operator must be continually on the job and adjust the levers.

In short grain broken reel slats are common. Tack a strip of canvas or linoleum 6 inches wide on each reel slat and raise the reel.

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ration may have the desired effect of appearance of the animal's body. A show animal should not be be expected to pick all her living on the pasture field. Feed some roughage in the stable, and it. add grain and concentrates, as oil-cake meal, cottonseed meal, etc. Cater to the whims of the cow and she

FOUNDED 1866

THE DAIRY.

Preparing for the Show Ring.

The show season is drawing near in Eastern Canada, and many breeders of pure-bred stock are busy putting the finishing touches on the animals they purpose show ing. To win in strong competition means a good deal financially to the breeder who has stock to sell, but many jeopardize their chances of securing a prize because of failure to pay attention to details in fitting their entries. The man who has followed the shows for several years has learned his lesson and a visit to his farm would have found him making plans early in the spring or possibly last fall for the fairs which will soon The amateur possibly thinks that if his cows have open. the desired breed-type and conformation, and show good udder development that he need not worry. True, fit and finish are not considered to the same extent with dairy cattle as with beef animals, but nevertheless appearance counts, especially in a close competition At practically every fair there are animals that would have stood near the top when awards were made had their owner spent a little time each day, for a month or more before the fair, in trimming up and training them.

While the prime object in keeping dairy cows is for the production of milk, a heavy milker which lacks type and constitution is a poor proposition for the breeder Pick out your best individuals from every standpoint, remembering that there must be a correlation of parts. Perfect type and comformation without indication of milk, and vice versa will not win. There must be a blending of these qualities in the one individual, whether it be a mature cow, heifer or bull. While preparing for the show should have commenced months ago, there is much that can be done yet to improve the appearance of the entries.

Special feed and care will soon give a bloom or finish to the hair and hide. True, some cows turn their feed into milk at the expense of their bodies. Such are rofitable animals, but a little addition to the present



Pauline Colantha Posch 8784. Seven-day record: Milk, 691.8 lbs.; butter, 34.32 lbs. Dam of Pauline Colantha Tensen 12077, with a seven-day record of 689.4 lbs. milk and 31.95 lbs. butter.

a detrimental effect on an animal. Rain may make the hair harsh and rough, while the sun may bleach or tan Keeping the cow blanketed in a cool stable during the day will help to give that glossy appearance which is so much admired. Several weeks previous to leaving

for the fair, commence feeding the kind of feeds which are to be used when away from home. A sudden change of even a part of the ration may throw

an animal off its feed and. cause it to look gaunt when led into the showring. Also, feed and water at the same hour at home as you intend to at the fair. Stock are creatures of habit and a variation of a half hour or more, and that in a strange stable, may make the animals uneasy and cause them to refuse their feed. This work may to seem unnecessary some, but it may be the means of having your entries appear to better advantage than if little attention were paid to the hour of feeding.

Grooming also aids in giving a finish to the ani-mal. If properly done the hair and hide are cleaned of dirt, and the pores of the skin are kept open so as to perform their function as nature intended that they should. Avoid using a sharp

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comb; it may scratch or irritate the skin. If you can draw the comb over the back of your hand without causing annoyance, it will not harm the cow. A little trimming may be necessary; long hairs around the head and udder may be clipped off to advantage.

JULY 26, 1917

Then, the horns may require attention. The roughness can be rasped or sandpapered off and a little polishing done. This may not increase the value of the animal, but it improves the appearance and shows that the exhibitor has done his best to make his stock attractive, and that counts for a good deal.

Too many animals brought into the show-ring act as if they were being led for the first time. There is little excuse for this as it does not take long to halter-break an animal, especially when it is young. When the stock is continually moving about it does not give the judge an opportunity to size it up as he could if it were standing in position; consequently, failure to train the animal to stand properly is oftentimes responsible for losing the coveted ribbons. The man who knows his animal can train it to stand so as to strengthen some weak point. If the animal is worth showing it is worth while taking pains to prepare it for the show. Failure to fit and train the animals applies more to exhibitors at local fairs than at the large exhibitions. The idea seems to be prevalent that as competition is not very strong at the township fair, it is not worth while going to any bother in fitting the stock. If the prizes are won it is practically clear gain, if not, there is little loss. This may be true but it is not the right spirit to carry into the show-ring. What impression does it leave with young men if unfitted animals are able to secure prizes owing to lack of competition? What kind of an ideal does it set up in the neighborhood? If exhibiting your stock at the local fair, fit and train it the same as you would if going into exceptionally strong competition.

Feeding the Young Bull.

Editor "The Farmer's Advocate":

I read with interest your advice, in a recent article, on raising calves, especially the heifer calves which one intends keeping for cows. I always save the heifer calves from cows that are good milkers. I like the parents to have age, as they seem to throw stronger and better-developed stock. I have a young pure-bred bull which I recently purchased. He sucked a cow for seven months and was then weaned. I keep him in a box stall during the day, but towards night I turn him in a small field with the other calves. He is fed rolled oats three times a day; a little barley is mixed with it, about three parts of a gallon at a feed. The grass in the field has become a little short, so I have quit turning him out at night and cut grass for him instead. He is watered twice a day. Should he thrive well under this treatment? He is nine months old now and in good condition. My object is to keep him growing. YouNG FARMER.

The system of feeding outlined should give very good results. However, we would prefer allowing the calf to run in the field at night for exercise, but give him all the grass or clover he will eat in the stable. Clover or alfalfa is preferable to timothy for young stock.

During the month of June thirty-five Holstein cows and heifers were accepted for entry in the Record of Merit. Bell Model Pietje was first in the mature class with a record of 598.3 pounds of milk and 28.71 pounds of butter-fat in seven days. The junior four-year-old class was led by Korndyke Segis Hartog with a milk yield of 586.2 pounds and 24.7 pounds of butter-fat. Miss Mercena of Alluvialdale was first in the senior three-year-old class. In seven days she gave 525.4 pounds of milk which yielded 16.37 pounds of butterfat. In the junior three-year-old class Pietje Geiske Walker was first, while Pontiac Cornelia Pietje was first in the senior two-year-old class. Avondale Pet was the highest junior two-year-old with a record of 17.61 pounds of butter-fat. THE FARMER'S ADVOCATE.

wheat from the large percentage of real useless weeds contained in the screenings.

The poultrymen of Canada would highly appreciate it if the Department of Agriculture could arrange that good screenings would be sold at right prices. A large quantity of wheat could be saved, but none will feed high-priced screenings full of all kinds of useless seeds. Lincoln Co., Ont. OTTO HEROLD.

Egg Market Stronger.

For the week ending July 17 eggs and poultry markets report of the Dominion Department of Agriculture are to the effect that the egg market is gradually gaining strength, due to a certain extent to the falling off in receipts, combined with an improvement in the export situation. There is a firm tone to all the larger markets and at local points an advance of from six to seven cents has been reported during the past ten days. Prices in Montreal and vicinity have been slower to respond than they have in Western Ontario, due largely to the arrival of several cars of Western eggs. With the favorable turn of the export market, and the shortage of supplies, it is reported that some country shippers have received offers as high as 36 cents f. o. b. shipping point for candled stock, while 34 cents is becoming general over Western Ontario. Buyers are placing a premium on quality and it is to the advantage of the producer to take very precaution to safeguard and conserve the quality of the eggs he places on the market. Eggs have advanced in price from one to one and one-half cents in Manitoba. one cent in Saskatchewan and from two to three cents in Alberta. The markets in the United States continue firm, with receipts, particularly of the higher grades, showing a distinct falling off.

Receipts of poultry, particularly fowls, continue light for this season of the year. This may be due to the favorable reaction in egg prices or to the fact that poultrymen and farmers are exceptionally busy at the present time. Later in the season there is usually a rush to market the old birds which results in a sharp decline in price. Those who have poultry for sale might find it to their advantage to market it before the movement of poultry becomes general. The poultry situation in the United States is reported to be in a very depressed condition at present. Government, reports indicate that stocks on hand are large.

Current storage poultry prices wholesale for the week mentioned were milk-fed broilers, 30 cents; from the range, 22 cents; milk-fed chickens, 27 to 32 cents, and on the range, 22 to 25 cents. Light fowl was from 17 to 20 cents, and heavy fowl, 22 to 23 cents. Old ducks, 20 cents; young ducks, 24 cents. Geese, 12½ cents and turkeys 28 to 30 cents.

According to the feed reports it appears that poultrymen will have to make up their minds to utilize screenings and lower grades of wheat more extensively than in the past, or else use other feeds as substitutes for wheat. Some poultrymen report difficulty in getting the laying stock to eat freely of low-grade wheat after having been accustomed to the hard wheat. It is necessary to make the change gradually and even then there may be a slight falling off in production.

Diseases of the Liver and Intestines.

At the present time when growing chicks are attaining an age of from one month to ten weeks, a disease (known as Coccidiosis) affecting the liver and bowels, This dis to Dr. Wickware of the Experimental Farm is quite prevalent throughout Canada and is probably responsible for many deaths at present attributed to white diarrhœa. The disease is caused by a small egg-shaped germ which inhabits the first portion and blind pouches of the bowels. It produces inflammation of the bowels and liver, the blind pouches showing the most marked alteration. The changes in the latter may vary from a filling up with a reddish granular looking mass of soft consistency to hard cores composed of lining cells, blood, etc. The liver may show changes varying from a fairly normal appearance to large areas of a yellow color which when cut into show a cheese-like centre. Symptoms-The chicks appear dull and isolate themthemselves from the rest of the flock, usually remaining in the hover or under the hen. The feathers become ruffled; wings droop; appetite is lost and occasionally the chicks will give utterance to a shrill cry, particularly when trying to pass material from the bowels. A white discharge is usually present although it may be rather reddish in color and the vent may become pasted with the material discharged. These are the prominent symptoms in typical cases but chicks may also be badly affected and exhibit no outward appearance of disease until death suddenly takes place. Treatment.-Treatment consists in dissolving fifteen grains powdered catechu in a gallon of drinking water. This should be kept constantly in front of the chicks and should be changed every two days. Prevention .-- Prevention consists in the isolation of all ailing chicks from the remainder of the flock and the thorough disinfection of all the quarters and runs, which may be accomplished by the application of a limewash solution made by adding two and one-half pounds of stone lime to 'a pail of water, to which is also added one-half a teacupful of good commercial disinfectant. This should be applied full strength with a spray pump, brush or old broom, to all parts of the quarters, brooder The feeding troughs should be cleansed houses, etc. daily by scalding with boiling water and special care taken to prevent the chicks from getting their feet either in the feeding utensils or drinking fountains, as

the disease is transmitted from bird to bird in this way. The floor of the brooder houses should be covered with a coating composed of nine parts of sand and one part of air-slaked lime, and if the droppings are not removed daily, they should at least be mixed with a fair amount of air-slaked lime to insure proper disinfection. If the runs are not too large, it is also advisable to cover them with a thin coating of the above mentioned lime and either spade or plough them up. The chicks should be kept away from all adult fowls, and carcasses of dead birds immediately burned as burying only serves to keep the infection going from year to year.—Experimental Farms Note.

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HORTICULTURE.

Controlling Slugs.

The slimy looking larvæ or "slugs" that eat the surface off the leaves of cherry and pear trees during July and August are easily killed. If there is no fruit on the trees, the best way is to spray the trees with arsenate of lead in the proportion of 1 pound of the powder, or 2 pounds of the paste, to each 50 gallons of water. A fine spray is best, and should be applied so as to cover the upper surface of the leaves, where most of the feeding is done.

In case there is fruit on the trees you may use white hellebore, 1 ounce to 3 gallons of water. This will kill the slugs and do no harm to people who eat the fruit.

The same results may be secured by spraying with a strong tobacco decoction, such as Black Leaf 40, 1 part in 800 parts of water.

A thorough dusting with slacked lime, ashes or fine road dust will usually be successful in removing the slugs from the leaves.—C. P. Gillette, Fort Collins, Colorado.

A Dust Mulch in the Garden.

During the summer some vegetables wilt under the mid-day sun. The moisture is pumped from the leaves faster than the roots can draw it from the soil reservoir. However, after the sun sets the plants again attain their former freshness. In order to hasten growth and encourage a maximum yield some carry water to certain crops in the garden night after night during a dry spell. Undoubtedly they are rewarded for their labor, but considerable of this work could be saved by use of the hoe. It is generally believed that if undue evaporation of moisture were checked that the soil would supply the plant with the required quantity of moisture even in dry weather. Soil uncultivated for several weeks becomes hard and cracks, while the same kind of soil kept cultivated is quite moist an inch below the surface. Cultivation wakes a dust mulch which the surface. Cultivation makes a dust mulch which checks evaporation. Therefore, if a certain soil is stirred occasionally it will reduce the necessity for watering it. Hoeing to form this loose soil also keeps weeds in check so that cultivation of the garden at frequent intervals serves a double purpose. It does not take long to go over a small garden with the hoe. If planting is done in rows a hand-cultivator could be used to advantage. While plants respond to watering, you should not neglect loosening the surface soil around the plants, especially when the weather clears after a heavy rain.

Crops, like celery, are sometimes mulched with straw, leaves, or strawy manure. Several inches of this material are placed between the rows where they not only hold moisture but give of their fertility to the plants. Frequent cultivation of the garden throughout the summer months will go a long way towards the production of maximum crops.

During the month of June certificates were issued for twenty-three Holstein cows and heifers which had qualified in the yearly Record of Performance test. Flora De Kol Maid was first in the aged class; her milk yield being 17,005 pounds, which yielded 532 pounds of tat. Bonheur Queen Mercena made an excellent record in the four-year-old class. Her 17,587 pounds of milk yielded 671 pounds of fat. There were only three in the three-year-old class, with Cornucopia Sylvia Beets leading, with a record of 13,558 pounds of milk. In the two-year-old class Madoline Dora De Kol was first. She gave 11,748 pounds of milk and 458 pounds of fat. Her milk yield was exceeded by three other cows but she had a considerable lead in batter-fat.

POULTRY.

Poultry Feed Prices.

EDITOR "THE FARMER'S ADVOCATE":

I just read in your paper, under Poultry: "Cheaper Poultry Feed". When seeing this headline I felt delighted but when reading the article over I was disappointed. I think every farmer interested in poultry or other live stock has tried broken wheat, screenings, etc., but the prices were so high as compared with good wheat or grain that in fact good grain was cheaper in feeding value than the screenings. I do not think that any mill or elevator could, or better would, be willing to separate cracked and shrunken wheat and wild buck-

Apples a Comparatively Light Crop in Canada.

The July fruit crop report, issued by the Fruit Commissioner's Branch, Department of Agriculture, is to the effect that heavy rains the fore part of the month have caused such fruits as cherries and plums to drop. and have also induced the rapid development of apple scab. The apple crop, particularly of the late varieties, is light in Lambton, Norfolk, Essex and the Niagara District, although in some orchards the early varieties promise a fair yield. Throughout Western Ontario the crop is practically a failure, being estimated at not over fifty per cent. of last year's. The crop in the Lake Ontario district is very scattered. In some orchards in the Trenton district there will be a good crop. In the Cobourg section not over sixty per cent. of last year's crop; Prince Edward County about twenty per cent. of normal with considerable scab beginning to show; in the South Bay district, Spys, Baldwins, Russets and Greenings are about twenty per cent. of the normal crop, with Ben Davis, Baxter, Stark, Mann, Snow and similar varieties seventy-five per cent. of a full crop. With the exceptions of Spys and Russets reports from the north shore of the Bay of Quinte indicate a good avernorth shore of the bay of Quinte indicate a good aver-age crop. Bowmanville reports about sixty per cent. of last year's crop, but scab is developing. In the Oshawa District early varieties are a fair crop; Baldwins and Spys light, Ben Davis and Stark medium. It is estimated that the total crop will equal that of last year. It is believed that there will be thirty per cent. of an average crop in Newcastle district, but in Durham County it is believed that there will be less clean fruit than in any year since 1885. In the Georgian Bay district, Spys, Baldwins and Greenings are very light, with Kings, Russets, Snows and early varieties about fifty per cent. of a normal crop. In Quebec the early varieties

appear to be light with fall and winter apples about medium. In the St. Lawrence and Ottawa Valley districts the crop of Fameuse and McIntosh is about fifty per cent. of normal. Reports from the St. John Valley place the probable crop at about sixty per cent. of normal, but scab is developing rapidly. The apple crop in the Annapolis Valley is estimated at about 800,000 barrels, and the fruit is clean in well-sprayed orchards. In Prince Edward Island early varieties promise a fair crop. If conditions are favorable it is believed that the Island will produce the largest crop for some years. The estimated crop in the Kootenay Lake district is seventy-five per cent. of 1916. The crop promises to be light in the apple sections of New York State.

1200

In the Niagara Peninsula sour cherries are about fifty per cent. of the normal crop, and about seventyfive per cent. in the Burlington district. Sweet cherries were a light crop and owing to weather conditions rotted badly. Between Hamilton and Grimsby the peach crop will not exceed forty per cent. of that of last year, but from Grimsby to Niagara Falls it will be about sixty per cent. Leaf curl has been bad in some sections and the drop has been heavy. Outside of Niagara there are practically no peaches in Ontario this year, with the exception of Lambton County, which has about ten per cent. of last year's crop. The Niagara grape crop promises to be good but will be a couple of weeks later than usual in maturing. The pear crop in the Niagara District is light to medium, with a fair crop in some orchards. The June drop has considerably reduced the plum crop. Lombards, Reine Claude, Yellow Egg and Monarch are light to medium, or about thirty per cent. of a normal crop in Niagara, but elsewhere in Ontario and in Nova Scotia prospects are good. A heavy crop is reported in British Columbia. Indications are for a good crop of small fruits in every district

In Eastern Canada there has been a serious outbreak of apple scab fostered by prevailing weather conditions. The development has not been so serious in the Western districts. Canker worms have infested the Annapolis Valley and have also appeared in New Brunswick. Taking the Dominion as a whole the apple crop is exceedingly light, but even so those interested in marketing the fruit should lose no time in arranging for the widest possible distribution of the crop in Canada, in order that none of the crop be lost in the event of the embargo remaining.

FARM BULLETIN.

Keep the Potato Vines Green and Growing.

Many are growing potatoes in Canada this year for the first time and, as a result of the increased number of growers the crop will probably be greatly increased. But to insure a good crop there must be an abundance of moisture in the soil, and the tops must be protected from insects and disease. The soil should be kept cultivated until the tops meet sufficiently to shade the ground. As most of the tubers develop in the three or four inches of soil nearest the surface, and as the tubers will not develop well in dry soil, quite shallow cultiva-tion is desirable at this season of the year. In soil which is dry there may be good development of tops but there will be few tubers. The roots in such cases into the soil to obtain down deer but the tuber-bearing stems, which are quite different from the root system, do not develop well. Where the soil is a loose, sandy loam, hilling is not necessary and may be injurious, as the soil dries out more than if left on the level. In heavy soils it is desirable to hill the potatoes, as it will loosen the soil and the tubers will be more shapely than when the ground is left level. When there is sufficient rainfall and moisture in the soil hilling is likely to give best results in all kinds of soil, as the soil will be looser and the tubers can push through it readily. As a great development of tubers takes place during the cooler and usually moister weather of the latter part of summer, it is very important to keep the plants growing well until then. In one experiment it was shown that during the month of September there was an increase of 119 bushels of potatoes per acre It is very important to prevent the tops of potatoes from being eaten by insects, particularly by the Colorado Potato Beetle. The old "bugs" do not do much harm to the foliage, as a rule, and usually the plants are not sprayed to destroy these, although the fewer there are to lay eggs the less difficulty there will be in destroying the young ones. These begin to eat rapidly soon after hatching, and close watch should be kept so that the vines may be sprayed before much harm is done. Paris green kills more rapidly than arsenate of lead but does not adhe: e se well, and in rainy weather it is desirable to have something that will stay on the leaves so that they will be protected until it stops raining and thus prevent the tops being eaten. At the Central Experimental Farm a mixture of Paris green and arsenate of lead is used in the proportion of 8 ounces Paris green, 112 pounds paste arsenate of lead (or 12 ounces dry arsenate of lead) to 40 gallons of water in order to get the advantage of both poisons. It may be that it is not convenient to get both poisons when either 12 ounces of Paris green or 3 pounds paste arsenate of lead (or 11/2 pounds dry arsenate of lead) to 40 gallons water could be used. or in smaller quantities, say 1 ounce Paris green to 3 gallons or 312 ounces paste arsenate of lead or half that quantity of dry to 3 gallons of water. An experiment conducted for six years at the Ontario Agricultural

College, Guelph, showed that, on the average, where the tops were sprayed to kill "bugs", the yield was 186.9 bushels per acre, while when the tops were not sprayed and allowed to be eaten, the yield was only 98.2 bushels per acre. It is desirable not to stop with one spraying which usually does not kill all the bugs but to spray several times, if necessary, so that as little foliage as possible is eaten.

Some years the crop of potatoes is much lessened by the late blight disease, and when rot follows little of the crop may be left. It is, therefore, very desirable to prevent this disease from spreading. This is done by keeping the plants covered with Bordeaux mixture from about the first week of July, or before there is any sign of the disease, until September. Sometimes the first application of Bordeaux mixture is made before the potato beetles are all killed when the poison for them may be mixed with the Bordeaux. While the disease is not very bad every year, it is well to be prepared. There was an average increase per year of 94 bushels of potatoes from spraying with Bordeaux mixture in three years.

The formula for Bordeaux for potatoes is 4 pounds copper sulphate or bluestone, 4 pounds freshly slaked lime to 40 gallons of water. While the bluestone will dissolve more quickly in hot water, if it is not convenient to get this it may be suspended over night in a cotton bag in a wooden or earthen vessel containing four or five or more gallons of water. The lime should be slaked in another vessel and before mixing with the copper sulphate solution should be strained through coarse sacking or a fine sieve. The copper sulphate solution is now put into a barrel, if it has not already been dissolved in one, and enough water added to half fill the barrel; the slaked lime should be diluted in another barrel with enough water to make a barrel of the lime mixture. Now pour the diluted lime mixture into the diluted copper suphate solution and stir thoroughly, when it is ready for use. The concentrated lime mixture should not be mixed with the concentrated copper sulphate solution, as, if this is done, an inferior mixture will result. If the barrels are kept covered so that there is no evaporation, stock solutions of the concentrated materials may be kept in separate barrels thoughout the season. It is important to have the quantities of lime and copper sulphate as recommended, but, in order to be sure that enough lime has been used and there is no danger of burning the foliage, let a drop of ferrocyanide of potassium solution (which can be obtained from a druggist fall into the mixture when ready. If the latter turns reddish-brown, add more lime mixture until no change of color takes place.-Experimental Farms Note.

East Middlesex Notes. Editor "The Farmer's Advocate"

June is the month usually devoted to roadmaking. but some of it at least is not done yet. This is a system where we think Home Rule or local self government should be replaced by centralization so as to secure more unformity in the methods. Each county or township should have a capable overseer or inspector appointed by the government in townships where the Statute Labor system is still retained. The average pathmaster is either incapable, careless, or afraid of offending his neighbors to do efficient work on the roads, and some of them are all three in one.

Another advance has been made in the cheese industry. Our cheesemaker announces that cheese will henceforth be graded into three grades and sold with one-half cent reduction on each grade and appeals to his patrons to take better care of the milk. This is the next best thing to paying by test which came so near realization. It looks as though we would have a few apples after all, especially the early varieties, but it is pretty safe to predict that there will not be much cider drunk on the old farm in Middlesex this fall. The heavy rains still continue and are doing some damage to root crops and gardens, also grain crops to a less extent on very low and poorly-drained land. But on the whole the benefits far exceed the losses as the yield of straw will likely be heavy to offset the dearth of last year and with a heavy yield of straw there is usually a fair yield at least of grain. But the moist, warm weather is favorable to the production of smut and rust, and already there are signs of the former at least being plentiful. There is also a material increase in the yield of hay but unless it dries up at least a little more the difficulty of curing hay will be enormous. Some have started haying, but we would prefer to risk it a while longer as there is less danger of it getting woody in a wet season, and anyway it is better to be a little woody than spoiled with rain. The rain is also interfering seriously with the honey All indications at present point to a small yield and higher prices. However, this is not an unmixed evil from the beekeeper's standpoint because if he cannot get honey he can get bees as there is enough honey coming in to keep brood rearing going lively and swarming is quite frequent.

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A Successful Exhibition at Edmonton.

In many respects the Edmonton Fair this year was superior to those held in the past. While some breeds of stock were not quite so well represented as last year others were out in greater numbers. The industrial display far exceeded that of other years. The showing of farm machinery, tractors, dairy equipment, etc., at tracted the attention of visitors, especially those from the rural districts. The attendance was all that could be desired.

In the horse department Clydesdales presented the greatest competition. Many new Alberta breeden brought out animals of high quality. There was also a good showing of Percherons, particularly from the southern part of Alberta. The other breeds of horses were represented by good specimens, although they were not out in large numbers. There were 528 entries of cattle, which is a trifle below that of last year. The Medicine Hat show being held at the same time was largely responsible for this. There was a large showing of Herefords, the same herds coming in competition as were at Calgary. The Shorthorns were not so numerous as at the former show.

The Prairie flocks have made steady growth in numbers and quality as evidenced by the large entry of sheep of high standard. A number of Eastern breed-ers were present and carried away some of the honors. although the Western breeders were successful in a number of classes. The showing of Alberta-bred purebred swine surpassed any previous exhibition in the Province. There was strenuous competition in practically all the classes.

The entries in Clydesdales were all from Alberta. The grand champion stallion at Calgary, exhibited by Ben Finlayson, again secured the high honors. The champion female was Poppy, exhibited by Geo. Cress-well, with Nell of Atkin, the champion at Calgary, as reserve. The Percheron breed was fairly well represented by individuals from six stables. They made a splendid showing and aroused considerable enthusiasm The champion stallion and female at Calgary were each moved into reserve positions, and the honorn went to the three-year-old stallion, Marvel, exhibited by Geo. Lane. The champion female was Nellie Bell from the same stable. There were two exhibitors of Shires, one of Belgians, and one of Suffolk Punch.

In Shorthorns the main contest was between the herds of Yule & Bowes and J. G. Barrow, although other exhibitors were able to get well up in the mone in many classes. The placings at Calgary were slightly changed. John Miller, Junior, of Ashburn, was the only Ontario exhibitor, and succeeded in securing share of the prizes. The senior champion bull was Banner Bearer, exhibited by Yule & Bowes, while J. G. Barron had the junior and grand champion in Jubile Star. Fairview Baroness Queen won the highest honors in the female classes for Barron, with Clipper Girl in reserve

The high quality of the competitors in the Hereford classes created intense interest. Five Western herds and one Ontario herd were exhibited. L. O. Clifford, of Oshawa, secured second in the aged-bull class, on Bonnie Brae 31st; G. E. Fuller's bull, Martin Fairfan, winning the class also the grand championship. Th Ontario herd was first in the junior yearling class, first and fourth with senior calves, and won the junior championship on Lord Fairfax 5th. Miss Armour Fairured the first-r tize ribbon in aged-c for Mr. Clifford, and also was awarded the grand championship ribbon. Third prize in the three-year-old cow class, second in the two-year-old class, first in the junior yearling class, second and third in senior calf class, first in junior herd, second in two, the progeny of one cow, and third in the aged herd all went to the Ontario Herefords. Three herds of Aberdeen-Angus were entered, and the Ontario herd shown by Jas. Bowman, of Guelph, secured a fair share of the honors. Beauty's Lawy won the senior championship but was defeated for the highest honors by Black Cap McGregor, the junior champion from the Brandon herd. The champion prizes in the female classes all went to McGregor although Bowman secured second and third with age cows, second and third with heifers two-year-old, find and second with senior yearlings, second with a junio yearling, second and third with senior calves, and second with a junior calf. In the class for two, progett of one cow, the Ontario herd was awarded first and third prizes and secured second in both the aged and junio herds Holsteins made the strongest showing in the daily classes. While there were only three exhibitors Holsteins, their stock presented keen competition for the honors. Korndyke Posch Pontiac, from J. Laycock herd, was declared senior champion bull, with Bonne Brae Carmen from the same herd as junior champion The grand championship prize in the female classe went to Geo. Bevington, on Duchess of Springhill, wild Sutherland Abbekerk Polly, the junior champion from Duke of Sutherland's herd as reserve. Rowland Ness of De Winton, had a strong line-up of Ayrshires. entire herd was in fine bloom and made an attractive showing. The champion female was Ness' Birdie of Lone Spruce, and the champion bull, Burnside Master man. Four Jersey herds competed for honors, making strong competition in most classes. It was the beat Jersey showing that Edmonton has witnessed and the entries were all from Alberta. The Jean Duluth Fare Company, of Minnesota, were the only exhibitors of Guernseys, and brought out typey, uniform representation tives of the breed.



Middlesex Co., Ont. J. H. BURNS.

Cheques Issued to Wool Growers

Owing to the vast amount of work entailed in grading, shipping and making up the individual accounts it has taken considerable time to complete the business in connection with the marketing of wool co-operatively at Guelph. However, the secretary R. W. Wade has everything in readiness for issuing the checks the week of July 23rd. Any sheep-breeder who has shipped wool but has not received his cheque by the end of the week should write the secretary at once for an explanation,

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L. O. Clifford. 1-bull class. on Martin Fairfax, pionship. Th rling class, firs von the junior ss Armour FairJULY 26, 1917

THE FARMER'S ADVOCATE.

Toronto, Montreal, Buffalo, and Other Leading Markets

TORONTO

(Union Stock Yards)

Price Range

Bulk Sales

..... 9.75-10.75...... 11.00

..... 8.75- 9.75...... 9.75

9.00.

9.80-11.25.

8.75-9.75.

7.75-9.00.

6.50-8.00.

7.75-9.00.

6.50 - 7.50.

7.75- 8.50.

6.75- 7.75.

8.75- 9.50....

..... 8.25- 9.00.

15.75-16.25

15.75-16.25.

14.75-15.25.

10.75-11.25.

12.75-13.25.

7.50 -

Week Ending July 19.

Toronto (Union Stock Yards).....

Montreal (Pt. St. Charles).....

Toronto (Union Stock Yards).

Market Comments.

Montreal (Pt. St. Charles)

Montreal (East End).

Winnipeg.....

Calgary.

Montreal (East End)

Winnipeg..

Calgary

Receipts and Market Tops.

			CA	TTLE			
		Receip			Price Good	Steers	
				. ((1,000-1,20)	0)	
	Week	Same	Week	Week	Same	Week	
	Ending	Week	Ending	Ending		Ending	
~	July 19	1916	July 12	July 19	1916	July 12	
	5,203	3,951	4,263	\$11.25	\$ 8.75	\$11.50	
	708	450	1,120	11.00	9.25	11.75	
	663	830	1,470	11.00	9.35	11.50	
	2,424	2,132	2,577	9.90	8.50	11.00	
			· H	OGS			
	Receipts			Top Price Selects			
	Week	Same		Week	Same	Week	
	Ending	3371-	I. 1.	T2 11			

Receipts			Top Price Selects				
Week	Same	Week	Week	Same	Week		
Ending	Week	Ending	Ending	Week	Ending		
uly 19	1916	July 12	July 19	1916	July 12		
6,329	4,235	7,406	\$16.25	\$11.75	\$16.75		
1,122	600	1,839	16.50	12.00	17.25.		
			16.75				
5,479	7,717	6,406	15.15	11.00	15.50		
		2,428		10.15	15.00		

189				10.00 9.50 8.50	
		SH	EEP		
	Receipt	S	Top 1	Price Good I	ambs
Week	Same	Week	Week	Same	Week
Ending	Week	Ending	Ending	Week	Ending
July 19	1916	July 12	July 19	1916	July 12
2,143	1,402	1,148	\$16.25	\$14.50	\$17.00
				12.00	
350	813	669	*10 00	12.00	*10.00

89.

272

813...... 669....

Week

Ending

July 12

1,106.

1,612

Receipts

Same

Week

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659.

598

492.

795.

Week

Ending

July 19 954...

882

155.

Dominion Department of Agriculture, Live Stock Branch, Markets Intelligence Division

Week

Ending

July 19

\$15.00.

12.50

12.00.

Top Price Good Calves

Same

Week

1916

.\$12.25

10.00

12.00.

10.00

10.00.

CALVES

... 15.00 *Quotations per head.

Тор

Price

\$12.00

11 25

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..... 8.00

..... 11.25

Toronto (Union Stock Yards.) CLASSIFICATION No. Avge. Price With 3,600 cattle on sale on Monday, prices were lower by 10 to 20 cents than STEERS those prevailing on the closing market heavy finished..... 127.....\$10.83....\$10.75-\$11.50. of last week, but about on a level with good..... those prevailing on the previous Monday. STEERS 668. Trading was, however, very active and 1,000-1,200 common..... 66...... 9.75...... 9.25-10.25...... 10.50 by the close almost everything had been weighed up. With a light supply on sale on Tuesday, prices held steady and were followed by an advance of 10 to 25 cents on Wednesday, on which day a further light run was received. On Thursday everything was bought up early at Wednesday's advance, the market closing with a steady undertone A few stall. 850 10.04... good..... STEERS 700-1,000 common... 466 .. 9.27 good ... 10.44 287 Heifers fair... 322 9.04 8.13. 108. common... with a steady undertone. A few stallgood. 737. 8.50 7.08. fed cattle were on sale during the week, Cows 1,077.. fair... and these brought special prices. Eleven head of heavy steers from Pt. Elgin, Ontario, sold on Monday at \$12.25 54...... 8.31. BULLS good. 60...... 6.88.. common... per hundred with a straight load in the same class bringing \$11.90, while on Wednesday a few extra good heavy steers realized \$12.00. These were the top prices for the week, and were only reached in these instances. The bulk 80..... 5.68..... 5.25- 6.00. CANNERS & CUTTERS..... OXEN 954... 14.17...... 13.50- 15.00... CALVES ... of the heavy cattle sold from \$10.75 to 8.19. \$11.50, while steers of one thousand to STOCKERS good... 132 eleven hundred pounds weight ranged from \$10.50 to \$11.10. Several hundred 450 - 800fair 60.. 7.37. good..... 97..... 9.08..... head were weighed up at these prices, a few odd head reaching \$11.25. Light FEEDERS 6..... 8.50. 800 - 1,000fair. butcher steers and heifers from seven hundred to one thousand pounds, sold from \$9.50 to \$10.50, with two head selling at \$11.00 and one at \$11.50. 16.00 5,794. selects ... Hogs 85. .15.80heavies..... 299. 15.00. (fed and lights... Medium quality in this class ranged from \$8.75 to \$9.25, and common dairy-bred 11.10. watered) stags ... 5. 146. 13.06. SOWS. stock from Eastern Ontario sold from \$7.00 to \$8.00, with a few selling as low heavy 7.91386 9.04 \$6.00 per hundred. Bulls ranged SHEEP light 125. all the way from \$5.50 to \$10.00, the common former figure being paid for poor quality yearling bulls and the latter figure for LAMBS good..... 1,256... smooth beef-bred stock; the bulk of the common. best sold from \$8.50 to \$9.25. With an exceptionally heavy run of cows on sale on Monday, this class suffered more severely than the other grades and were *Quotations per head. per hundred, and the bulk was weighed from 25 to 40 cents lower, but recovered up at this figure. On Tuesday \$15.75 fully 25 cents during the remainder of was the prevailing price for selects, and week. Good cows from \$8.25 to on the following day the bulk sold at the 88.75, with a few head reaching \$9.50; same level although \$16.00 was paid for medium cows sold from \$7.00 to \$8.00 per hundred with common cows \$1.00 lower, and canners and cutters bringing further decline of from 25 to 50 cents is lower, and canners and cutters bringing anywhere from \$5.25 to \$6.00 per hundred. predicted for next week. Stockers and feeders were in fair demand Of the disposition of live stock from at last week's quotations, with best stockers bringing from \$7.75 to \$8.50, ending July 12th. Canadian packinghouses ending July 12th, Canadian packinghouses and feeders from \$8.50 to \$9.50, according to quality. Calves were steady all week and feeders from \$8.50 to \$9.50, according to quality. Calves were steady all week with good and choice calves ranging from \$14.00 to \$15.00 per hundred and common weal from \$9.00 to \$11.00 butcher cattle, 196 hogs, and 218 sheep. Shipments back to country points totalled veal from \$9.00 to \$11.00. With eight hundred lambs and sheep on sale on Monday, lamb prices were cut \$1.00 to \$1.50 per hundred, \$16.00 being the top price paid, and the bulk bringing in the neighborhood of \$15.50. On Tuesday as high as \$16.25 was paid, and on Wednesday the bulk of the lambs cold from \$15.50 to \$16.25 the market

		TREAL t. Charles)	
No.	Avge.	Price Range Bulk Sales	Top Price
8	·		\$10.75
94 27		\$10.25-\$10.75 9.50-10.00	
26 163	0100111111	9.25- 10.10 9.00- 9.50	
	10.00 9.10 8.50	9.75- 10.25 8.85- 9.65 8.30- 8.70	9.65
14 126		8.40- 8.70 7.00- 8.00	
2 102	9.75 7.57	9.50- 10.00 6.00- 9.00	10.00
30	6.00	5.75- 6.25	6.50
2	8.00	8.00	8.00
882	10.22	8.00- 12.50	12.50
790 63 129 1 139	15.99 15.99 11.00	15.85- 16.40 15.75- 16.25 15.75- 16.25 11.00 12.75- 13.50	16.25

9.00 -9.50. 9.50

..... 10.25

1201

Week

Ending July 12

\$15.00

12.50

12.50

.*10.00

... 10.50

.. 13 50

aged-co he grand chamthree-year-old ass, first in the senior calf class, progeny of one to the Ontario

e entered, and an, of Guelph Beauty's Leroy lefeated for the gor, the junior The champion to McGregor hird with age o-year-old, first d with a junio or calves, and or two, progeny d first and third aged and junior

ng in the dairy e exhibitors of competition for om J. Laycock's ll, with Bonnie inior champion female classe Springhill, with champion from Rowland Ness Ayrshires. le an at**tractive** Ness' Birdie d urnside Master honors, making t was the best nessed and the n Duluth Farm y exhibitors of orm representa-

January 1st to July 12th, inclusive, were 121,130 cattle, 29,345 calves, 17,434 sheep, and 257,775 hogs; compared to 128,027 cattle, 26,652 calves, 23,077 sheep, and 231,925 hogs, received during the corresponding period of 1916 sold from \$15.50 to \$16.25, the market closing on Thursday at the latter level. About twenty-two hundred lambs were the corresponding period of 1916.

Montreal.

about steady at last week's quotations. Hogs on the Monday market were previously contracted for at \$16.25 Although there were few choice butcher

on sale during the week and with more

liberal supplies coming forward, a further decline may be expected. Sheep were

9.26. 9.75. 7.00 -8.50. 8.50 37 30. 8.50-9.50. 9.50 9.50- 10.25. ... 6.00- 7.50..... 7.50 8.74..... 8.50- 9.00..... 9.00 6.44. 103. 15.00- 16.05...... 16.25 15.67. 354...... 14.74...... 14.00- 15.50...... 15.50

> cattle offered during the week, the average quality of the receipts was slightly better than for a few weeks past. This was particularly true of the offerings at the East End market, where several loads of steers averaging 1,050 to 1,200 pounds, from the district west of Ottawa and a few loads from Western Canada, were on sale. Such cattle sold generally from \$10 to \$10.50 per hundred, with a few small lots above the latter figure. Butcher cows brought from \$7 to \$8.25. Choice bulls sold up to \$10.25, but the majority of sales were made at from \$8 to \$8.75. A few bologna bulls are coming in and brought from \$6 to \$7 per hundred. Canners are scarce and in good demand at unchanged prices. Sheep and lambs are arriving in greater numbers and hold about steady. The hog market was un-steady all week. Prices on Monday ranged from \$16.50 to \$16.75, off cars, for selects. Tuesday and Wednesday sales were made at from \$16 to \$16.50

off cars. Only one load was received on Thursday, and this had been contracted for previously at \$16.60, off cars.

PT. ST. CHARLES.—Of the disposition of With light receipts over the week end, live stock from Pt. St. Charles Yards for the week ending July 12, Canadian pack-ers and local butchers purchased 1,150 calves, 85 canners and cutters, 126 bulls, 846 butcher cattle, 1,839 hogs, 228 sheep

Shipments back to and 280 lambs. country points were made up of 43 stock-ers. Shipments to United States' points totalled 462 calves.

The total receipts of live stock from January 1st to July 12th inclusive, were 19,463 cattle, 40,020 calves, 6,973 sheep and 36,864 hogs; compared to 21,897 cattle, 29,662 calves, 9,461 sheep and 49,772 hogs, received during the corres-ponding period of 1916.

EAST END.—Of the disposition from the EAST END.—Of the disposition from the East End Yards for the week ending July 12th, Canadian packers and local butchers purchased 897 calves, 1,426 butcher cattle, 1,080 hogs and 669 sheep. Shipments to United States' points totalled 215 calves.

The total receipts of live stock from January 1st to July 12th inclusive, were 19,237 cattle, 31,382 calves, 7,450 sheep and 23,640 hogs; compared to 17,574 cattle, 29,814 calves, 10,449 sheep and 29,817 hogs, received during the corresponding period of 1916.

Winnipeg.

With light receipts over the week end, the market for butcher cattle was slow on Monday, but was followed by heavier 1202

Incorporated 1855

At any of the Branches of

The Molsons Bank Farmers are welcome

Local Managers are instructed to consult with them, and by every legitimate means assist in securing the utmost development of our farms.

Savings Department at all Branches, Interest at Highest Current Rate.

cattle on sale showed more quality than previously and met with an improved demand. One choice heavy steer brought \$10.50 per hundred, but the larger propórtion of this class sold at \$8.50 to \$9 per hundred. Female classes of butcher cattle were slower at slightly reduced The highest for butcher heifers prices. was \$9.75 per hundred, the bulk of the sales being made between \$7.50 and \$8.50. Good cows sold from \$7 to \$8 per hundred, and good springers were in demand Good quality oxen held steady all week but the common kind sold at reduced prices. Butcher bulls were also lower in price during the week. The run of calves was light but prices were 50 cents per hundred lower than the top of the previous week, the best veal calves selling at \$12 per hundred, with the bulk of the sales being made between \$10 to \$11. There was a large movement of stocker and feeder cattle from the market to the country during the week, the number being in the neighborhood of eleven hundred. Quotations on this class showed a reduction of 25 cents per hun-dred, the bulk of the offerings bringing from \$6.50 to \$7.25.

Sheep and lamb receipts were light and in good demand. Good lambs sold at \$12 per hundred, and good sheep around

Although the receipts of hogs were nine hundred head fewer than those of the previous week, prices declined 65 cents per hundred, the market opening on Friday at \$15.15 for selects and closing on Thursday at \$14.50. A large number of hogs were purchased on the market during the week for shipment east. Heavy hogs sold at \$12 per hundred, lights at \$13.50, sows at \$11, and stags at \$10.

Of the disposition of live stock from he Yards for the week ending Inty 19th

THE FARMER'S ADVOCATE

was \$12.00, medium grades took the range of \$10.25 to \$11.25 and common kinds went from \$10.00 down. On females market was strong to a quarter higher, advance being on the better kinds, bulls were up 15 to 25 cents, stockers and feeders, while no higher, met with a more active demand and the fresh cow and springer trade ruled strong. Receipts the past week 4,800 head, week previous 4,750 head, and same week a

year ago 4,525 head. Quotations: Shipping Steers.—Choice to prime natives, \$13.25 to \$13.75; fair to good, \$12.25 to \$13.00; plain, \$11.00 to \$11.50; very coarse and common, \$10.50 to \$10.75 best grass Canadians, \$12.65 to \$13.00; fair to good, \$11.50 to \$12.50; common and plain, \$10.50 to \$11.00.

Butchering Steers.—Choice heavy, \$11.50 to \$12.00; fair to good, \$10.50 o \$11.25; best handy, \$11.00 to \$11.50; light and common, \$9.00 to \$9.50; yearings, choice to prime, \$12.00 to \$13.00; fair to good, \$11.00 to \$14.75.

Cows and Heifers.-Best heavy heifers, \$10.00 to \$11.00; best butchering heifers, \$9.00 to \$10.00; fair butchering heifers \$8.00 to \$8.75; light and common, \$7.25 to \$7.75; very fancy fat cows, \$9.50 to \$10.00; best heavy fat cows, \$8.50 to \$9.00; good butchering cows, \$7.25 to \$8.00; medium to fair, \$6.50 to \$7.00; cutters, \$6.25 to \$6.50; canners, \$5.00 to \$5.50. Bulls.-Best heavy, \$9.00 to \$9.50;

good butchering, \$8.00 to \$8.75. Stockers and Feeders.—Best feeders,

\$8.00 to \$8.50; common to fair, \$7.00 to \$7.50; best stockers, \$7.25 to \$8.00; common to good, \$6.50 to \$7.00.

Milchers and Springers.—Good to best, in small lots, \$90.00 to \$115.00; in car loads, \$75.00 to \$85.00; medium to fair, in small lots, \$60.00 to \$70.00; in car loads, \$55.00 to \$60.00; common, \$40.00 to \$50.00.

Hogs.-Prices showed a steady decline last week. On the opening day the top was \$16.00 but bulk sold at \$15.80 to \$15.90. Tuesday showed a \$16.00 top, with majority \$15.80 to \$15.85, and a decline of five to ten cents was noted the next three days. Friday the top dropped to \$15.80, with bulk selling from \$15.55 to \$15.65. Pigs the first half of the week sold mostly at \$15.25, and the next two days they were a quarter lower, buyers landing these weights on Friday down to \$14.75. Roughs brought from \$13.75 to \$14.00, and stags \$13.75 down. For the past week receipts were 18,500 head, as against 18,750 head for the week before and 24,600 head for the same week a

Sheep and Lambs .- Last week started with top lambs selling from \$15.50 to to \$16.00 and the next three days no sales were made above \$15.50. Friday's market was a little stronger, top being \$15.75, and culls went from \$13.00 down. Top for yearlings was \$13.00, wether sheep are quotable around \$10.00 and ewes downward heavy fat ones selling down to \$8.50. Receipts last week were 1,600 head, the week previous there were 2,255 head for the same week a year ago the run totaled 3,500 head. Calves.—Supply the past week ag-gregated 2,700 head, as compared with 2,997 head for the week before and 2,150 head for the corresponding week a year ago. Monday's trade was active, top veals selling mostly at \$15.75, and culls around \$14.50. The next three days, however, the market was dull and tops were hard to land above \$15.00. Friday's market was stronger, choice lots going mostly at \$15.50, and the cull range was from \$14.00 down. Weighty rough calves undersold the good handy culls by from \$2.00 to \$3.00 per cwt., and they were slow sale at that.

Anerican Corn. -- (Track, Toronto),

No. 3 vellow, \$2.08, nominal. Flour. - Ontario, winter \$10.55 to \$10.65, in bags, track, Toronto. Manitoba flour-first patents, in jute bags, \$12.90; second patents, \$12.40; strong, bakers', \$12.

Hay and Millfeed.

Hay, extra No. 2, per ton, \$12 to \$12.50; mixed, per ton, \$9 to \$11.

Straw.-Car lots, per ton, \$8.50 to \$9. Bran.-Per ton, \$35; shorts, \$40 to \$41; middlings, per ton, \$44 to \$45; feed flour, per bag, \$3.25.

Hides and Wool.

Prices delivered, Toronto:

City hides.—City butcher hides, green flats, 22c.; calf skins, green, flat, 27c.; veal kip, 22c.; horse hides, city take-off, \$6 to \$7; city lamb skins, shearlings and pelts, 60c. to 90c.; sheep, \$2.50 to \$3.50.

Country Markets .- Beef hides, flat, cured, 20c. to 21c.; deacons, or bob calf, \$1.75 to \$2.50 each; horse hides, country take-off, No. 1, \$6 to \$7; No. 2, \$5 to \$6; No. 1 sheep skins, \$2 to \$2.50. Horse hair, farmers' stock, \$37.

Tallow. — City rendered, solids, in barrels, 13c. to 14c.; country solid, in barrels, No. 1, 12c. to 16c.; cakes, No. 1, 15c. to 17c.

Wool.—Unwashed fleece wool, as to mality. fine, 58c.; coarse, 56c. Washed quality, fine, 58c.; coarse, 56c. wool, fine, 70c.; coarse, 65c.

Country Produce.

Butter.-Butter remained stationary in price with a weaker tendency. Creamery, fresh-made pound squares, 37c. to 38c per lb.; creamery solids, 36c. to 37c. per lb.; dairy, 30c. to 32c. per lb.; separator dairy, 33c. per lb. Eggs.—Eggs are quite scarce and ad-

vanced in price, selling at 39c. per dozen wholesale, and are likely to still further advance.

Beans. - The bean market is very quiet at practically unchanged pricesselling at \$9.50 to \$10.50 per bushel, wholesale.

Poultry. - Poultry kept about stationary in price, bringing as follows: Live-weight prices: spring chickens, 20c. to 22c. per lb.; spring ducks, 15c. per lb.; roosters, 14c. per lb.; light fowl, 16c. per lb.; heavy fowl, 19c. per lb.; turkeys, 18c. per lb.; squabs, dressed, \$3.50 to \$4 per

Cheese.—Old, 30c. per lb.; new, 23c per lb.; new twins, 23½c. per lb.

Wholesale Fruits and Vegetables.

Apples came in pretty freely during the past week and were a good sale, Red Astrachan selling at \$2.50 to \$3 per hamper, and Yellow Transparents at \$3 per hamper.

Bananas arrived in larger quantities and declined in price—now selling at \$3 to \$3.25 per bunch.

Blueberries.-The first blueberries for eason came in last week selling

FOUNDED 1866

Beet shipments were exceptionally heavy-the bulk selling at 15c. to 20c. per dozen bunches; a few extra choice bringing 30c. per dozen bunches.

Beans .- Both wax and green beans came in for the first time this season, and shipments increased rapidly, selling at

\$1.25 to \$1.50 per 11-qt. basket. Cabbage declined, the crates selling at \$2.75 to \$3.25 and bushel hampers at \$1

to \$1.25. Carrots have been very small and sold at 10c. to 20c. per dozen bunches.

Cauliflower shipments increased, and they were of very good quality, selling at \$2 to \$2.25 per case, and \$1 to \$1.50 per dozen.

Celery.—New celery arrived from Kala-mazoo and sold at 40c. to 50c. per dozen bunches.

Cucumbers kept firm in price, and there was a keen demand and not too heavy a The Learnington hot house sellsupply. ing at \$1.50 to \$2 per 11-qt. basket. The first outside-grown (Canadian) bringing \$1.35 to \$1.50 per 11-qt. basket.

Canadian Mushrooms of fine quality also were received and sold quickly at 75c. per lb.

Peas.-Green peas after coming in quite heavily and selling at 40c. per 11qt. basket eased off somewhat, the price advancing to 60c. to 75c. per 11-qt. basket.

Peppers.-Canadian green peppers continued to come in in small lots, selling at 85c. to \$1 per 6-qt. basket and \$1.50, to \$1.75 per 11-qts.

New potatoes came in freely, declining in price, No. 1's selling at \$6 to \$6.50 per bbl., and No. 2's at \$5 per bbl.

Vegetable marrow made its initial appearance, selling at 65c. to 75c. per 11-qt. basket.

Montreal Produce.

Dressed Hogs.-Dressed hogs changed hands steadily and prices ranged around 231/2c. per lb. for choice, abattoir, fresh-

Potatoes .- Practically everywhere new potatoes are being served instead of old stock, in spite of the fact that the new brings a higher price. In fact, the old stock is now practically exhausted and consumers have no use for it apyway. The new stock is all imported and is selling at varying prices, according to receipts. The price was said to be around \$6.50 per bbl. of about 165 lbs. of potatoes.

Honey and Maple Syrup.-The supply of old honey is running low and no trade is going on in it. Nominal prices were around 15c. per lb. for white clover comb, 13c. for white extracted or brown comb, and around 11c. for buckwheat honey. The demand for maple syrup was not at all active, but prices were steady, being \$1.65 per gallon tin for choicest syrup and from that to \$1.55 for good

JULY

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Canadian packing houses purchased 48 calves, 916 butcher cattle, 6,245 hogs, and 25 sheep. Local butchers bought 54 calves, 311 butcher cattle, 190 hogs and 51 sheep. Shipments back to the country were made up of 12 stocker calves, 772 stockers, 164 feeders and 184 Shipments to United States' hogs. points totalled 404 butcher cattle, 64 stockers and 54 feeders.

The total receipts of live stock marketed from January 1st to July 12th in-clusive, were 55,325 cattle, 3,272 calves, to 30,807 cattle, 4,286 calves, 2,053 sheep and 195,429 hogs, received during the corresponding period of 1916.

Buffalo Markets.

Cattle .-- Trade last week, notwithstanding the good supply, was generally higher. Buffalo's receipts on Monday totaled 170 loads, close to 40 cars of which were Canadians, and market on all good fat grades was 15 to 25 cents higher than the week previous. Medium kinds were strong to a dime higher, and common kinds ruled about steady. About twenty five loads were shipping steers, twenty loads of which came out of Canada, and the bulk of these were sold by nine o'clock. Nothing strictly dry-fed was included and while no native brought above \$13.40, had a real ripe kind been here they would have sold close to \$14.00. Best Canadians, grass steers from \$12.65 to \$13.00, medium kinds, weighing from 1,150 to 1,250 pounds, ranged from \$11,50 to \$12,50 and plainer lots went down, ward from \$11,25. Top for handy steers

Toronto Produce. Breadstuffs.

Receipts of live stock at Union Stock Yards, West Toronto, Monday, July 23, were 208 cars, 4,240 cattle, 245 calves, 630 hogs and 933 sheep and lambs. Slow, draggy market. Butchers fitty cents lower; cows, bulls, stockers and feeders 25 to 40 cents lower. Lambs, one dolla-and fifty cents lower, sheep and calves 25 cents lower. Hogs steady, packers quote fifty cents lower balance of week.

Wheat.—Ontario, according to freights; No. 2 winter, per car lot, \$2.45 to \$2.50; No. 3 winter, per car lot, \$2.43 to \$2.48. Manitoba wheat (track, bay ports) -No. 1 northeru, \$2.63¹₂; No. 2 northern, \$2.60¹.

\$2.25 per 11-qt. basket.

Cherries.--Sweet cherries were scare especially the choice ones. Blacks selling at 90c, to \$1.50 per 6-qt, basket \$1.25 to \$2.50 per 11-qt, basket; whites 50c. to 75c. per 6-qt. basket, 75c. to \$1.50 per 11-qt. basket; sours, 40c. to 60c. per 6 qts., and 85c. to \$1.25 per 11 qts.

Currants.—Both black and red currants arrived for the first time this season. The blacks were of fine quality and sold at \$1.15 per 6-qt. basket, while the reds were rather small and sold at 40c. to 60c. per 6-qt. basket.

Gooseberries arrived fairly freely and varied greatly in size and price, selling at 30c, to 75c, per 6-qt, basket, and 60c, to \$1.25 and \$1.50 per 11-qt, basket.

Lemons kept firm; Californias selling at \$5.75 to \$6 per case, and Verdillis at \$6 per case.

Oranges were a little easier, ranging from \$4 to \$4.75 per case.

Raspberries began to come in, and were of choice quality, easily selling at 25c. per box

Strawberry shipments were not nearly heavy enough to satisfy the demand, the price advancing steadily until they reached 17c. per box; the bulk, however, sold at 15c. per box, with some going at 13c.

Tomatoes.-Outside-grown Canadian tomatces came in in increasing quantities and sold at 85c, to \$1.25 per 6-qt, basket and \$2 to \$2.50 per 11-qt. basket; No. 1 hot house selling at 22c. to 25c. per lb., and No. 2's at 20c. per lb.; while imported outside-grown sold at \$1.75 to \$2.25 per 4-basket carrier.

Watermelons came in very freely and declined in price, selling at 30c. to 75c.

nuality and \$1.30 for lower grades. Sugar is 15c. per lb.

Eggs.-The market for eggs showed additional strength last week, more especially in the case of select stock, but also in the ordinary. This strength was doubtless due to the lighter arrivals, and to the increasing scarcity of select stock during the present hot, muggy weather. Select, new-laid were quoted at 42c. per doz.; selects, 40c.; No. 1 candled, 37c.; No. 2, 35c.

Butter. -Although there is little export and the present make of butter is not particularly desirable for storage purposes, everything offered is being quickly taken up at firm prices. Finest quality was quoted at 36c. to 361/2c. per lb., while fine creamery was quoted at 1c. less. Dairies ranged from 29c. to 31c. per lb., for good to finest grades, while lower grades sold down to 27c.

Cheese.—Cheese sold at a decline at country points last week, being around 20³4c. locally, the prices ranged around 21³4c. per lb., for No. 1 cheese and 21¹4c. for No. 2, while No. 3 was 20³4c., here, with lower grades selling at 2014c. Grain.—The market for wheat was

quite strong. Some feed barley sold at \$1.25 per bushel. No. 2 Canadian at \$1.25 per bushel. No. 2 Canadian Western oats were 81½c. per bushel, while No. 3 and extra No. 1 feed sold at 80½c. No. 2 American yellow corn was nominally \$2.06 per bushel, ex-store. Beans were very scarce and prices were as high as \$9.50 per bushel for Canadian 5-lb. pickers; Rangoons being \$9, yellow eyes \$8 and Japans \$7.50.

Flour.-The market was very firm in sympathy with the advance in wheat and prices were up about 50c. per bbl. Continued on page 1209

NDED 1866

xceptionally 15c. to **20c.** extra choice green beans

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all and sold iches. reased, and y, selling at o \$1.50 per

from Kala-. per dozen,

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Ice.

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where **new** tead of **old** at the new old usted and t anyway. ed and is cording to be around of potatoes. The supply d no trade prices were over comb, own comb, eat honey p was not re steady, r choicest

JULY 26, 1917

IN WESTMINSTER GAZETTE.

games they used to play: Och, Hide-an'-seek, an' Catch-who-can,

an' Houses in the hay; For, when the weary work bes done, there,

fornent the door, 'Tis how they play at sojerin'-marchin'

them on.

only wan!

the tin bugles blow,

Since in an unbeknownst grave, her own man lies low.

My ould apron is their flag, they stole it off a whin.

An' brave it waves above them, flutterin' out an' in,

wisht himself could see

The way they go purtendin' that they're bestin' Germany.

God, take the notion o' the war out o' the childhers' mind!

Ram'lin' up the Glen there, an' leppin'

Sure, the Saints themselves would join them in the games they used to

Betsy.

BY MARGARET RAIN. Until Betsy was pretty old I never came within the circle of her acquaintance, which was my loss. From time to time since I have collected little bits of her history, and noticed little characteristics which in a measure explain to me some of the great charms of a character so simple and true as hers. The first thing that struck everyone in Betsy was her great personal beauty-a beauty that never to fade, for when I first her she was, as I have said, past middle life. Her hair was still of that bright brown which George Eliot says must have been dipped in sunshine, and it was still very plentiful and grew low on her forehead, as in the Greek type of beauty. Her eyes, too, were brown and had in them a curious expression of shyness. Otherwise Betsy was like other of the cottage wives, of sturdy though handsome figure clad usually in homespun, and busy from morning till night outdoors and in. It was only in her regular features and the originality of her opinions and conversation that she differed from the dozens of good women who lived in such homes and I had the good luck to call my friends. Her father had been a farmer. He was of a good farming family who owned some land on the Tweed, but, as I was told, he was a "useless body." His farm was on the edge of the moors, reclaimed from them and maybe unwisely, for often that kind of land hardly repays cultivation. Betsy, the eldest of three children, was, when her mother died, a girl of twelve years old. The loss of a mother, particularly if she is the wife of a "useless body," is more easily imagined than described. Betsy left school so that she owed little to books and learning, but got her schooling in a harder but more thorough manner in the school of practical experience. Before she was twenty years old she was known as the best butter-maker, the best spinner and the bonniest lass in the part of Tweedside in which she lived. Needless to say her admirers were numerous but she would

have none of them, her whole interest in

life being centred in helping to put her

brothers, into a better position. Her mother's aunt had left her a sum of money, small we might consider it now, yet in those days quite considerable, but being a shrewd old lady and having made a fair estimate of the qualifications of her nephew-in-law to provide for her family, she left it to Dr. Sanders in trust for Betsy till she should reach the mature age of twenty-five years. Before that, however, the father had taken to himself another wife, and Betsy, after trying to fit herself to her new circumstances, gave it up and determined to work for strangers rather than for those who seemed neither to appreciate nor be grateful for her un-

selfish labor.

own family, her father and her two

When old Dr. Sanders was consulted he applauded her resolution, and through his interest in her she was engaged as housekeeper at King's Hope, a farm where there was a non-resident tenant. She was again her own mistress, and her accomplishments in spinning and dairy work soon became famous in that countryside. Her wages to begin with were £6 per annum-\$30-and one or two fleeces, I forget which. Latterly the wages were raised but were never more than $\pounds 12$ — five dollars a month. There she lived happily I suppose, attending to the men who worked on the farm, at times work-ing in the hay field or "fitting" peats, looking after the garden, and in winter spinning no end of yarn, knitting and having for her only recreation a weekly visit to the small town three miles away where she sold her butter and eggs and the ewe-milk cheese for which King's Hope

in her time became famous. When after nearly twenty uneventful years of this life Walter Jardine came up the King's Hope "loaning" one late afternoon in November, wrapped in his shepherd's plaid, a change came over the aspect of her affairs. Wat was a wellgrown, yellow-haired laddie, but it was the plaid that first attracted Betsy's attention. Many another such had her busy fingers dyed and spun. No doubt all artists take an interest, partly critical, an artist due take the products of others partly admiring, in the products of others of their craft. To Betsy Rob was "nocht but a ploughman," and the hill folk among whom she was bred think a ploughman infinitely the inferior of a shepherd. But how had he come by the plaid? It was not so with Walter. The minute he saw Betsy he made up his mind to marry her, and marry her he did in little more than a year after he first met her. Who can tell what made Betsy change all her life plan? When Wat had hung up his plaid and gone off to the barn she brought it to the window for better light and made a critical examination, no doubt deciding that though good of its kind she was able to produce better. Her mind having become interested in the plaid, perhaps began to occupy itself, there was lots of unoccupied space therewith its wearer. Be that as it may, when at the end of the next summer she took Dr. Sanders his supply of winter butter and the ewe-milk cheese, she had to ask his advice on an important questionshould she marry Wat or should she re-main single? Dr. Sanders on this occasion gave Betsy advice exactly contrary to the cynical humorist in Punch. He said, "marry Wat by all means and between you, you have money to take a farm of your own." But no, "Rob was nocht but a ploughman"-and could, in her estimation, not be trusted to handle stock or buy and sell. In any event her money, which was now a very considerable sum, was to remain in the doctor's care in the meantime. When in a few months' time Wat and Betsy stood up side by side for the marriage ceremony in her father's house, though there was a good twelve years' difference in their ages, Betsy looked as youthful as her bridegroom. For the hills had taken good care of her, the fresh breezes, the wholesome food and the undisturbed life she had led had kept on her the dew of her youth, and left her with that softness of complexion and contour which are girlhood's charm.

The young couple migrated from the hills to a district lower down where Wat had found a situation as foreman "grieve" we call it, to the Laird of Scotswell. About this situation Betsy asked only one question, a quaint one showing the penetrating power the hill life had obtained over her. It was not, how much does he pay you or will the work be hard or is the house good? The question was "Are there peats?" Yes, there were peats, and she felt no more care.

About twelve months later the natural event happened, Betsy had a son, whom in her old-fashioned loyalty she called David after Wat's father. The coming of motherhood into her life seemed to wake up and take possession of her in a way that caused alarm, for few people ever understood that high-strung nature of hers, deep and impassioned as it was simple. Wat knew his wife pretty well by this time, and said in most matter of fact tones, "I think it's just her being a mither." She soon got well again and pow some the happing types of Betwie now came the happiest years of Betsy's With her baby, her peat fire, her good husband and comfortable circumstances, her cup of contentment was full. Now had come the great climax it seemed, that which all her life she had uncon-sciously been working for. Her quite substantial savings had now found a purpose, and here was some incentive to make the hoard grow daily larger. Davie was to have an education, his father and she were and would always be working folk, but Davie would be a gentleman. Davie was, I have been told, a beautiful boy, brown-eyes like his mother and with all the quaint charm of manner which she had. In that district though the people seemed healthy and many of them lived to be very old, when epidemics came they seemed to cause more deaths among the children than I have ever seen or heard of elsewhere. Davie only lived eight years, and then his death of diphtheria came and shattered Betsy's life, devastating everything and making of all her future a lone waste she could hardly bring herself to think of. What could life be without Davie? Neighbors visited her and uttered the usual commonplaces, others anxious for her soul's salvation sent her more or less horrible tracts. The young broad church divine who had succeeded the old, moderate minister, coming in one day to administer the mite of comfort which his creed allowed, found her destroying one of the tracts, and taking it from her hand to look at it said, "But Betsy you are not afraid of the devil?" and was surprised at her reply, "Hoots no, he's just to fetch up young Betsy's anxiety was not for the boy. In her simple faith she knew it was well with the child," but oh, the misery of life without a hope or an object Rather would she be laid in the churchyard beside her little son. Mechanically she went about her work doing what must be done, from habit she saved up money and in a few years had added many another golden sovereign to her store and soon was beginning actually to love the gold coin in place of what could be done with it. Fortunately, though rather lax in her views, in fact I am afraid she had as hazy an idea of what constituted orthodoxy as I have myself, she still went regularly to church. There was nothing to keep her at home, and she said she had a respect for the minister and did not like him to preach to empty pews. "It's a puir job to preach to a timber yard," she would say—"but a short sermon for me, a few words and let me go.'

war had begun, but somehow its horrors had no appeal to her, they were quite outside the circle of her experience. This day, however, an appeal was made for the Belgian children who were left fatherless and destitute, and at once this moved her heart. On the short walk home she said little, but in the afternoon when all was quiet and she thought herself unobserved she took out all little Davie's clothes. From time to time she had laid them away, all of them worth preserving, from his infant's christening robe, made with such care, to the last little suit which he had hardly worn, all were there. She expected no more children. She could not have told why she had done this. It was, perhaps, that habit of hoarding which had taken so strong a hold upon her. Now she had found a use for the clothes, they were all to be taken to the association that had been formed to help the Belgian children, and with it went five of the precious golden sovereigns that were to have helped to start Davie on his upward career. Davie did not need them; he had a career on a higher plane where his mother's hard-earned sovereigns were of no use to him.

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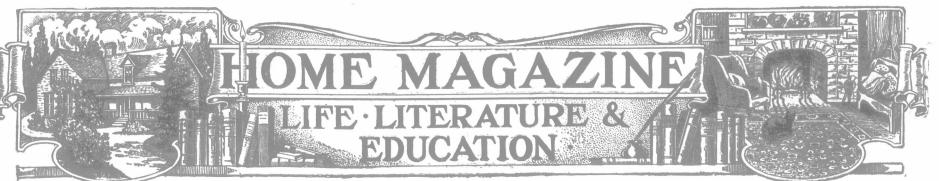
Her interest did not stop here. To-day Wat and Betsy have a soldier, "a puir lad who has nae hame," recovering his health in so far as it is possible for him, in their little cottage under the dark pines. He is not the first nor will he be the last that these kind hands have tended, and many a sovereign of Davie's has found its way into the hands of these friendless boys

Now life's outlook is brighter. The war which has dealt death and misery to millions has brought a revival of love and hope to the scathed heart of Betsy.

Hope's Quiet Hour

Strength Renewed.

Let the peoples renew their strength. -Isa. 41:1 (R. V.)



THE FARMER'S ADVOCATE.

Playin' Sojers.

BY FLORENCE M. WILSON,

God put into the childhers' heads the

four an' four.

He is their Captain, an' it's him that leads

The Widdy Ryan's Patsey;-now her

Now, pity her! she hides her face, when

An' tight they grip their wooden guns-I

May the Red Rain never drown them! -the Green Reek never blind!

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ery firm in wheat per bbl.

It was due to this habit that Betsy awoke once more to take an interest in life. She read the papers and knew a

- "Lord, carry me". "Nay, but I grant thee strength
- To walk, and work thy way to heaven at length."
- "Lord, why then am I weak?" "Because I give
- Power to the weak, and bid the dying live."
- "Lord, I am tired." "He hath not much desired
- The goal who at the starting point is tired.

CHRISTINA ROSSETTI.

TICX

"Let the peoples renew their strength" -is not that the desire of all the war-How is the miracle of weary nations? restoration to be accomplished? This was God's message long ago, and it is still his word of encouragement: "Keep silence before me, O islands; and let the peoples renew their strength : let them come near. . . let us come near together to judgment." That was the command of the King of nations; but it was preceded by a revelation of the King's power and and love. The doors of His treasury were flung wide open and all peoples were invited to come in and help themselves. He-the Greatest-declared his desire to minister to the least. "He fainteth not, neither the faint; and to him that hath no might He increaset h strength. Even the youths shall faint and be weary, and the young men shall utterly fall: but they that wait upon the LORD shall renew their strength; they shall mount

Alleged Profits of The William Davies Company in 1916 on Bacon, as Indicated by Department of Labor to be Five Cents per Pound, Untrue: ACTUAL PROFITS TWO-THIRDS OF A CENT PER POUND

THE statement issued by the Department of Labor concerning the business of The William Davies Company Limited has been given widespread circulation throughout the country and provoked public unrest.

Whatever the technical wording of the report was, the effect has been that the newspapers have published that "the profits on Bacon alone" of this Company "for 1916" were about "five millions of dollars." This interpretation of the official report is not surprising in view of certain statements that the Commissioner of the Cost of Living makes. The Commissioner is reported as saying that "There were two individual cases of profiteering in 1916 and that had these cases occurred since the passage of the cost of living Order-In-Council, he would consider it his duty to recommend that the facts be laid before the Attorney-General for consideration as to their criminality." The situation created by such erroneous and damaging statements is serious as emanating from a Government official, from whom one looks for not only accurate statements but correct conclusions.

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The William Davies Company, being a private concern, has followed the practice of all private corporations, except when it made a bond issue in 1911, in that it has not published reports of its assets and liabilities or profit and loss. The present circumstance, however, in which a Government Official has led the public to false conclusions, makes it advisable for this Company, for both the public interest and its own interest, to publish particulars of its business as well as point out the error of the statement of the Government Official.

For the last fiscal year ending March 27th, 1917, The William Davies Company bought and killed 1,043,000 head of Live Stock (Cattle, Hogs and Sheep). This, plus purchases of outside Meats, produced 160,-000,000 pounds of Meats. The Company handled 6,550,000 pounds of Butter and Cheese, 5,650,000 dozens of Eggs, and manufactured 26,500,000 tins of Canned Goods. The net profits on these were .68 cents (or two-thirds of a cent) per pound on meats, 1.04 cents on Butter and Cheese, 1.04 cents per dozen on Eggs, and .47 cents (or slightly less than one-half a cent) per tin on Canned Goods. These profits include profits on all By-Products derived from these accounts.

deducting war tax, was 1.69 per cent., or including war tax 3.45 per cent.

The William Davies Company has assets of \$13,385,000, of which \$3,865,000 is tied up in fixed investments.

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During the year the Company served at its retail stores 7,500,000 customers, the average purchase of each customer was 35c., and the net profit upon each sale was $\frac{5}{8}$ of one cent.

The turnover of the Company from all its operations for the last fiscal year ending March 27th, 1917, was \$40,000,000. The net percentage of profit upon this turnover, after To provide the necessary facilities for the increased volume of business the Company expended \$750,000 in buildings and equipment during the year.

Companies of other character present no more reasonable statement of profit and loss based upon the investments made in the business.

The William Davies Company offered to the Imperial authorities, as well as to the War Office Service (which represents the Imperial authorities in Canada) to place the output of its Factory with respect to Bacon supplies, Canned Beef and Pork and Beans at the service of the authorities, on the basis of cost plus an agreed percentage. These offers were successively declined, as the authorities evidently desired to purchase in the open market, and on this basis The William Davies Company has secured War Office business by open competition with the world.

(Continued on next page)

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THE FARMER'S ADVOCATE.

(Continued from preceding page)

Respecting the Report of the Commissioner on the Cost of Living :

Last Winter the Commissioner, under authority of Order-in-Council, required packers to submit statements under oath for some years back and up to December 1st, 1916, of incoming stocks of Meats and the cost of such, as well as statements of outgoing product and the selling value. This Company represented in writing at the time that the information as specifically required was not in accordance with Packing House Accounting methods, and invited the Commissioner to send an Officer to the Head Office of the Company to examine the books for any information desired, and to secure a viewpoint as to the best way of collecting data which would be of use to the Government. This offer was declined, and there was nothing to do but fill in the information required as literally as we could determine it. For example, there was no recognition of the fact that a raw product may enter a factory under a specific classification and leave the factory as a finished product under some other classification.

We submitted a series of accurate figures based upon our interpretation of the official requirements which made no provision for charges of any description other than incoming freight and unloading charges to be included in the cost or to be deducted from the selling price. There was nothing in the report which could be read so as to determine a profit and loss statement. The very fact that with only a statement based upon cost of raw products and value of sales in Great Britain a Government Official has deduced "Large margins," "Profiteering" and "Criminality" if it had occurred since the passage of a recent Act, shows too dangerous a trifling and incapacity to be permitted to deal with any important situation. The statements of this Company have been treated by the author of this report as if the outgoing product was identical with the incoming product, and from the series of reports he has singled out two items—the Bacon and Egg reports—and from the meduced an erroneous "margin" which the newspapers have interpreted as "profit." The author of the inquiry shows a strange lack of even a fundamental knowledge of simple bookkeeping and a dangerous inability to co-ordinate figures. The following are specific and outstanding errors in the report:

The principal item that is causing excitement deals with cold storage Bacon. The term "coldstorage" is not defined, and the public is allowed to make its own definitions. As all Bacon in a packing house is under refrigeration it is really all cold-storage, and therefore this Company's figures of cold-storage Bacon represent the complete quantity of Bacon handled in its entire Plant, whether in freezers or in process of cure for im-

mediate shipment. That some Companies interpreted cold-storage product as "freezer" product only is evidenced by the smallness or entire lack of figures on the Bacon list for some Plants, indicating that many Firms did not submit statements of their complete stocks, as did this Company. An Official of this Company pointed out this coldstorage distinction to Mr. O'Connor and Miss McKenna in Ottawa a few weeks ago, and the failure to make the distinction after having had it pointed out, evidences lack of desire for accuracy of the real information desired.

It is true The William Davies Company, in 1916, exported 97,791,000 pounds of Bacon, but we do not know how the margin of 5.05 cents per pound is arrived at by Mr. O'Connor, as there were no figures to justify such a conclusion. The probabilities are that the margin is arrived at by taking the average cost per pound of incoming product from the average selling price per pound of outgoing product. This may be a rough way of estimating the gross margin when dealing with small figures, but when dealing with figures the size that Mr. O'Connor has to deal with, a very small fraction of a cent per pound of error makes a very important difference in the total, and one must be careful to make sure that the outgoing product is the same finished merchandise of the incoming product reported on.

Allowing it to pass, however, as a rough estimate, we wish to point out—(first)—the inquiry of the Commissioner allowed only for incoming freight and unloading charges, and made no provision whatsoever for operating charges of any kind, such as labor, curing materials, refrigeration, et cetera. Such actual charges on the 97,791,000 pounds exported were \$1,162,000—or 1.2 cents per pound. This amount covered all charges up to the point of placing the Bacon on cars f.o.b. packing-house. In addition to this was the actual cost to land and sell this 97,791,000 pounds in England after leaving the packing house, which involved charges of 2.9 cents per pound—or \$2,-836,000. This 2.9 cents per pound included inland and ocean freight, landing charges, war and marine insurance, cables, and selling commission to agents. The ocean freight and war risk alone would make up 2.4 cents of the charge of 2.9 cents per pound. This 1.2 cents, plus 2.9 cents—a total of 4.1 cents—must be deducted from Mr. O'Connor's margin of 5.05 cents per pound, leaving a margin of .95 cents, or slightly less than a cent per pound, which still has to be reduced because of the error of premises and because of further factors which have to be considered to determine net profits.

It is quite evident some of the other packers did not show selling values in the country in which

the goods were sold—a proceeding quite proper, as the forms submitted to be filled in were indefinite and ambiguous, thus permitting without charge of evasion a variety of interpretation as to the information required. It is thus possible that of all the figures submitted by the different packers that no two sets of costs and sales prices are determined at the same common point. It is this difference of interpretation of what was required that accounts for the difference of the alleged "margin" made by the different companies. Common conclusions, however, have been drawn by the author of the report from varying bases of premises.

The figures of the Egg business were submitted on the same basis as Bacon, and similar deductions must be made.

(Second)-The above margin is further reduced in that the author of this inquiry singled out the Bacon figures as an item in which the selling price shows an alleged improper advance over cost, but he did not give us credit for the statements of other products, of which figures were submitted, the selling prices of which were under cost. The reason of this was through failure to inquire the Department entirely overlooked the fact that product may come in as pork and, through the process of manufacture, go out as Bacon, or, in another in-stance, enter the factory as beef and go out in the form of canned meats; for example: much of the product which came in as pork, and which was entered on the pork sheet submitted to the Commissioner-about which he makes no mention-was cured and left the factory in the form of Bacon, and was, therefore, entered on the outgoing side of the Bacon sheet-the result is that the Bacon sales are increased by this amount over the incom-ing stocks of Bacon, and, likewise, the sheet show-ing sales of pork is reduced by the amount that went out in the form of Bacon. If the Department takes one set of figures that show favorable to the Company they should take another set of figures that show unfavorable, as the principle in either case is the same, and failure to do so looks as if the author of the report was exercising more enthusiasm than sound judgment in his investiga-

(Third)—It is queried in the report, that "if the margin of 3.47 cents," alleged to have been made in 1915, "was satisfactory, why was it necessary to show increased margin in 1916?" Assuming again for the moment the soundness of the premises in asking such a question based on an erroneous "margin," it will be found that the increased margin is chiefly absorbed in increased ocean freight rates and war risk insurance in 1916, of which apparently the author of the report was in ignorance.

The Company does not challenge either the legal or moral

industry of this country, which is so valuable and essential a

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right of the Government to investigate business when public interest directs such an investigation should be made. If an investigation of the packing and meat business is ordered, the Company will place at the disposal of the Government not only the data it would be required to supply under Order-in-Council directing that inquiry be made, but will place the experience of its officers at the disposal of the investigating committee, if it is considered they can render any service which will be of value. The Company has not now—nor at any time during the fifty years of its operation—anything to conceal in method or practice of carrying on its business. It does, however, claim the right to conduct its export business without abusive comment from Government civil servants—especially when the conclusions drawn from the data asked for are improper and false.

One of Canada's chief export industries is the packing business. It is essential to the live-stock industry, and, along with other export industries, it maintains the financial stability of this country and should, providing it is on a sound basis, receive encouragement and not slanderous abuse. In view of the publicity given to the report of the Commissioner on the cost of living, the Company demands the same publicity in having an official Government investigation of this report to determine the truthfulness or untruthfulness of its conclusions. We do not seek public consideration as a company, but we do say that untruthful official statements, or statements the effect of which is to create an untruth, adversely affect the live-stock very people that the statement seeks to benefit.

If the passing out of existence of a corporation such as The William Davies Company, or if nationalization of packing houses would materially and permanently reduce food prices, then in view of the present world tragedy it ought to be consummated without delay. The fact of the matter is, however, that with millions of people in Europe turning from producers into consumers because of war, and the tremendous destruction of food products incident to war, there is no remedy for the high prices of food while such conditions last, except the remedy of thrift and increase of production.

Long before there was talk of a Food Controller in the United States or Canada The William Davies Company urged the Government at Ottawa, in writing, to appoint a Food Controller with full power to do what he saw fit, as we realized at that time the upward tendency in the price of food commodities unless checked by official effort. At the most a great deal cannot be done in reducing food prices while currency is inflated and until the scale of prices of all kinds of commodities declines also. What can be done can only be done by a Food Controller. We wish to point out that nothing at all can be accomplished unless the data secured are accurately and clearly made and the deductions therefrom sound. Only public harm arises from dangerous incompetency in the haphazard collection and careless use of important figures.

As far as The William Davies Company is concerned, this terminates all public statements of the Company, and it will pay no more attention to speculative and haphazard statements made either by newspapers or civil servants. The only further statement that will be made will be at an official investigation.

> E. C. FOX, General Manager THE WILLIAM DAVIES COMPANY, LIMITED

Toronto, July 17th, 1917

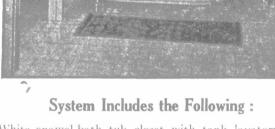
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White enamel bath tub, closet with tank, lavatory with fittings, hot water boiler for kitchen range, kitchen sink,water supply system with pneumatic storage tank, and all piping and fixtures necessary.

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up with wings as eagles; they shall run, and not be weary; they shall walk, and not faint."

The great hope of restoration is held out to us by prophets and apostles, and by Him Who is the Word of God. Over and over again the question of discouraged souls receives the same answer. We can tread hopelessness under our feet, saying with the buoyancy of faith: "Why art thou cast down, O my soul? and why art thou disquieted within me? hope in God: for I shall yet praise Him, who is the health of my countenance, and my God." That is the great refrain of the Psalmist. That is the reason so many Psalms begin sorrowfully and end joyfully.

When winter lays its icy grip upon the land the leaves and flowers wither and fall. But are we discouraged? Why, of course not! Winter won't last forever, and we look forward to the renewal of spring.

When a long, hard day is drawing toits close you may declare that you are "ready to drop"; but morning—with its gift of renewed strength—will come in good time.

"Why worry?" may be slang, but it is commonsense. The sun goes down and all is dark. Yes, but look to the east and watch for the glory of dawn. After years of terrible drought Elijah

Alter years of terrible drought Elijah sent his servant to look toward the sea. He looked and said sadly: "There is nothing."

"Go again seven times!" was the resolute answer of the prophet, who was hopefully waiting upon God. He prayed on, until a tiny cloud appeared in the sky. Then he knew the end of famine was near.

Do you feel discouraged because you have prayed and prayed, yet the war goes on? Our Lord has told us that men ought always to pray, and not to faint.

ought always to pray, and not to faint. The men who succeed are the men who "carry on," refusing to own themselves beaten. Clarence Hawkes-the blind American author-is a born fighter. He had made up his mind to be an author, and he sent off his manuscripts to publisher after publisher, never allowing a rejected manuscript to lie over-night on his desk. One of his poems was returned seventeen times—yet at last it became a great favorite. When he got downhearted he looked away from his own troubles, and found inspiration in the thought of others who had fought their way through defeat to victory. In the dark he could see people like Helen Keller, who— as he declared: "has contributed more to the world's courage and heroism than a whole regiment of soldiers," and Fanny Crosby-the blind hymn-writer-"for over ninety years in total darkness, who went on singing her songs of Faith and Glory."

Clarence Hawkes knows well that no one can carry a heavy load in his own strength. Every day he looks to God for courage, and every day the power of God is his strength. He has even made this surprising statement: "I can truly say that blindness has been a blessing to me, although the trail has been dark and the way long. There is a marvellous Fatherliness in the heart of God. He never fails to give the warmest of welcomes to each brokenhearted prodigal son, who—when all earthly hopes have failed—seeks the Love he has long despised. The prodigal is astonished to find himself warmly loved and welcomed when at last he turns to his Father. In that Father's arms he renews his strength for the battle against sin. Despair fades, like the darkest hour before the dawn, when a man can say: "This only have I felt, Christ's hand Sometimes, when bodily strength is ebbing fast, new life is poured into the veins through that mysterious operation known as "transfusion of blood." The life of one man becomes the life of another. This is a parable, a type of the great spiritual reality—Christ's Life in us. We are branches, grafted into the True Vine, and His life must flow in and through us if we are to be fruit-bearing branches. There is a story told of two wounded soldiers in a French hospital. One man had lost much blood, and the only hope of saving his life was this operation of transfusion. The other soldier—a Breton said: "Take my blood for the comrade!" The operation was successful and both men were steadily recovering. Some Red Cross workers, having found out that the Breton was a married man with a family of several children, made up

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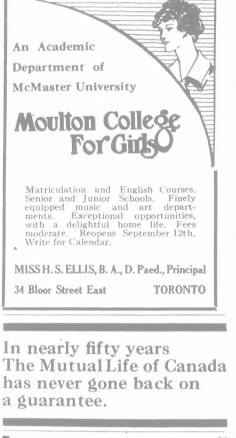
his own

JULY 26, 1917

Moodstock College A High-Grade, DIAMOND Well-Equipped JUBILEE School for 1857-1917 BOYS

Teaches the boy to learn and live. A thorough physical, mental and moral training for college or business. Efficient faculty, athletic fields, modern gymnasium, swimming pool, manual training. Calendar on request.

A. T. MacNEILL, B. A. Woodstock, Ontario Principal



Filing A choice, clear, sound-producing machine, with a marked absence of all rasping and

THE FARMER'S ADVOCATE.

a purse of five hundred frances. The money was offered to him as a token of admiration for his devotion to his comrade.

The Breton was poor, and he was also grateful for the kindness shown him; but he pushed the gift aside. "I must tell you how I feel," he said: "I gave my blood. I did not sell it."

How many, in this time of danger and of heroism, have given their lives for others. They "gave",—they could not "sell",—their lifeblood. That is not for sale-how could any sum repay one for a life? One who lays down his life for his friend-or for his enemy-has placed his great treasure fearlessly and trustfully in the hand of God. It is safe there. Such a life is not "lost" but found. God is keeping it, above all keeping, and He will restore it glorified.

"Therefore doth my Father love me, "Therefore doth my Father love me, because I lay down my life, that I might take it again," said the Leader of men exultantly, as He went forward to meet death. He did not sell His young life, but "gave" it freely to save the world. "No man taketh it from me," He said, "but I lay it down of myself. I have power to lay it down, and I have power to take it again."

He was young and full of the joy of life; and He was facing torture and scorn, -the scourge, the spitting, the dreadful cross,-yet He had joy and peace to use and to give away in overflowing measure. Death is a temporal thing, but life is eternal. He was not afraid to die; for He knew that on the other side of the last enemy new life awaited Him.

Despair in the great failure to be fought down. Those who wait on the Lord shall renew their strength. This life of difficulty is only the schooltime—only our childhood in which we prepare for the greater work ahead. These dark days are leading on to new light.

"In the fading of the starlight we may see the coming morn;

And the lights of men are paling in the splendors of the dawn: For the eastern skies are glowing with

light of hidden fire, And the hearts of men are stirring with

the throbs of deep desire.' HOPE.

Gifts for the Needy.

Four readers have this week placed "gifts for the needy" in my hands for distribution. "Margaret", "Fanny D." and "Isabelle" sent one dollar each; and two dollars from "Ray" arrived to-day

Some of this money has already been spent and the rest is waiting its mission —shut up securely in the ""Quiet Hour purse". Probably it will not have to wait long. Heartiest thanks to the givers!



United Fruit Companies alone. This is the best proof of satisfaction from two years' test of Arsenite of Lime.

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with a marked absence of all rasping and harshness. Priced from \$15 to \$250. Write for free illustrated catalogue and name of local dealer. Agents wanted. The Pallock Market and the second se

The Pollock Mfg. Co., Ltd., Kitchener, Ont.



Canning Vegetables.

The directions for canning green peas, greens", and young carrots, which are being given by the experts sent out by the Department of Agriculture are substantially as follows:

(1) Use new rubber rings, and have jars perfectly sterilized. Do not use a dishcloth about jars after the final

(2) "Blanch" the vegetables by pour-(2) "Blanch" the vegetables by pouring boiling water over and leaving for 5 to 10 minutes. Drain and cover with cold water. Drain again.

(3) Pack vegetables tight in jars fill with water, put on tops loosely and boil in boiler from 20 to 30 minutes.

(4) Remove jars and screw down tops. Leave until next day.

Loosen tops and boil again for 20 to 30 minutes the second day. Screw down and leave over night as before.

(6) Repeat process the third day. Before last boiling a teaspoon of salt may be placed on top of each jar. Let cool, and store in a cool, dark place. Before the final screwing down it may be necessary to fill up some of the jars from one kept for the purpose, or simply with boiling water.

Next week this subject will be given more attention in a report of a Demonstration on Canning given by one of the demonstrators sent out by the Department of Agriculture.

"What does your son expect to be?" "From the hours he keeps, I should say he is naturally cut out to be a milkman.'

For sale in large and small quantities by

T-EATON DRUG CLIMITED THE

AND ALL LIVE DEALERS

Curry-Jansen Mfg. Co., 57 Queen Street West, Toronto.

30 cents per lb. for beef is not high when compared to 50 cents per lb. live weight paid for the Champion of the Toronto Fat Stock Show.

Start feeding that steer now and get some of the big money at

THE EIGHTH ANNUAL **Toronto Fat Stock Show**

Union Stock Yards, TORONTO

December 7th and 8th, 1917

Secretary will mail prize list on request.

FUJI MICKO SAFELIA

1208

SEE

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ENGINE

THE FARMER'S ADVOCATE.

The Ingle Nook.

[Rules for correspondence in this and other Departments: (1) Kindly write on one side of paper only. (2) Always send name and address with communications. If pen name is also given, the real name will not be published. (3) When enclosing a letter to be forwarded to anyone, place it in stamped envelope ready to be sent on. (4) Allow one month in this Department for answers for questions to appear.] [Rules for correspondence in this and other

The 16th of July, as I write, and the sun shining! People are exclaiming over that as though it were a novelty, as, indeed, it is to some extent, for one could count on one's fingers all the really bright days we have had since spring.

Somewhere the poet Lowell speaks of:

"A dull and drizzling day, That makes us bitter at our neighbor's sins

I rather suspect that when he wrote the lines there was a twinkle in his eye -that he was enjoying to the full his sly poke at human "wobbliness" of temper,—but at the same time it must be acknowledged that there must be some touch of truth in the observation else it would lack the element that makes it humorous. There really are some people who are influenced to such an extent by weepy weather that when the sun refuses to shine they are out of tune with all creation and ready to take the head off everyone in sight. What a time these people must have had this season! What a chance for the condition to become chronic! And the worst of it is that yesterday was St. Swithin's day —and it rained, an occurrence that is said to presage more or less rain every day for the next forty days. It will be interesting to watch whether it falls so this year.

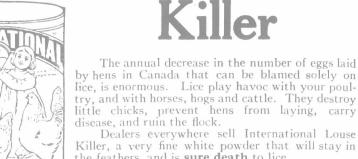
Do you know the story of St. Swithin? He was the bishop of Winchester and patron saint of Winchester Cathedral in the good old days of England, and was for some time tutor to the sons of King Egbert. He was famed as a man of great piety, and so great was his humility that he made his diocesan journeys always on foot. Whenever he gave a banquet, too, it was the poor and not the rich whom he invited. When he died, in July 862, he gave orders that he was not to be buried within the church, but outside in "a vile and unworthy place." A hundred years later when an attempt was made to move his body from this place to a new basilica, there came a tremendous downpour of rain, and legend grew about the occurrence extending the time to forty days. Hence the doggerel:

'St. Swithin's day if thou dost rain For forty days it will remain; St. Swithin's day if thou be fair

NATIONAL THRIFT and **PRODUCTION** in the Poultry Yard

The National Service Board of Canada is straining every effort towards greater productions of food for Canada and her Allies. It is your patriotic and profitable duty to help produce more than you ever did before-especially eggs and poultry.

International Louse



by hens in Canada that can be blamed solely on lice, is enormous. Lice play havoc with your poul-try, and with horses, hogs and cattle. They destroy little chicks, prevent hens from laying, carry disease, and ruin the flock. Dealers everywhere sell International Louse

Killer, a very fine white powder that will stay in the feathers, and is sure death to lice

Sold by dealers everywhere. If your dealer cannot supply you, write us, including 15c. extra postage per package.

Large Packages sold in 25c. INTERNATIONAL STOCK FOOD CO., LTD., and 50c. sizes. TORONTO



COLORS

Any except light grey, while or light buckskin. All horses must be sound, of good conforma-tion, free from blemishes, and broken to harness or saddle.

INSPECTION POINTS AS ARRANGED BY THE COMMITTEE:-TORONTO: Burns' repository every Monday; Union Stock Yards every Tuesday; McGregors, Hayden Street, every Wednesday. LONDON: July 26th and alternate Thursdays. Apply to James McCartney. BRAMPTON: July 19 and alternate Thursdays. Apply to E. J. Jones. PETERBOROUGH: July 20th and alternate Fridays. Apply to L. Green. ST. MARY'S: July 27th and alternate Fridays. Apply to L. M. Robinson, Toronto. COMMITTEE: E. C. H. Tiedde, Benerate West, West, Statistical Contents and Con

COMMITTEE:— E. C. H. Tisdale, Beaverton; Wm. Smith M.P., Columbus; Robert Gra-ham, Toronto; E. J. Jones, Brampton; C.F. Bailey, Assistant Deputy Minister of Agriculture; H. S. Arkell, Acting Live Stock Commissioner, Ottawa; Lt. Col. G. A Carruthers, Montreal; H. M. Robinson, Sec., 883 Broadview Ave., Toronto.

It is positively the only washer of its kind on the market. The halfhorsepower engine operates on gas, gasoline, kerosene or alcohol-about

five cents worth does the wash.

MULTI - MOTOR WASHER

This washer will not injure the daintiest linens, or the most delicate laces-and it will handle heavier blankets-doing the work twice as well and in less than half the time required by the old-fashioned washer or backbreaking, knuckle - skinning washboard and tub.

We also have in stock

"Maytag" Electric

"Maytag" Power and

""Maytag" Hand Washers ALSO THE

"Maytag" One H.-P. Engine

Each machine warranted FOR THREE YEARS.

Ask your dealer, or write for information to :

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HORSE OWNERS! USE CAUSTIC BALSAM. A safe, speedy and positive cure. The safest, Best BLISTER ever used. Removes all bunches from Merses. Impossible to produce scar or blemish. Send for circu-lars. Special advice free. HE LAWRENCE-WILLIAMS CO., Toronto, Canade

Burroughes' August Furniture Sale

Commences August 1st and continues until the end of the month. Easy terms for all.

Send for Special August Sale Catalogue Sheet

A collection of real bargains for out-of-town shoppers only. Profusely illus-trated. Special prices for August only. Send to-day.

Very Easy Terms Without Interest

Terms easier than ever throughout August. Every home should have this list of high-grade values.

PURROUGHES ("COR. QUEEN AND BATHURST STS") TORONTO, ONT.

DEGGS DEL Condensed advertisements will be inserted under this heading at three cents per word each insertion. Each initial counts for one word and figures for two words. Names and addresses are ash must always accomp ny the order for any advertisement under this heading. Parties having good pure-bred poultry and eggs for sale will find plenty of customers by using our adver-tising columns. No advertisements inserted for lising columns. N less than 50 cents.

POULTRY

THE FARMER'S ADVOCATE.

the breweries.-And in the meantime the efficiency of the people will be preserved. Sobriety means efficiency-drink means inefficiency. And if ever there was a time when every atom of efficiency must be conserved for the use of the world, and when children should be born free from the taint of alcoholism, surely that time is now.

Blueberries.

Dear Junia.—Will you please give in your column some methods of preserving blueberries, besides canning and jam. I live in a great wild country where there seems no limit to the quantity of blueberries and all of excellent quality.

And will you also tell me if there is any method of preserving mountain ash berries? There is a great quantity of them here. One time I did up about two quarts and someone told me they were poisonous, so I have never used them. I sampled them quite freely in the process of preserving and did not feel any ill effect. There are also Saskatoon berries here and high bush cranberries in abundance. I will appreciate any help you can give me for it seems such a pity to see so much wild fruit and I have often thought it must be some good.

And now just one more request. How long can clover and timothy seed be kept without losing its germinating power? Perhaps some day I can do something in return.

"One Who Would Like to Know."

Algoma, Ont. I really do not know of any way of

doing up blueberries besides canning, and making into preserves, jelly and jam. Huckleberries may be kept in "black strap" syrup, just put in raw, the syrup being drained off before the berries are used, so I should suppose blueberries could be done in the same way. You might try a jar to see.

Mountain ash berries are not poisonous, but surely they are rather bitter for preserving, are they not? Or did you put them through some process to remove the bitterness?

Saskatoons make perfectly delicious preserves. High-bush cranberries present some difficulty because of their flat seeds, but these may be removed by stewing the fruit then pressing it through a colander, the sugar to be addded afterwards. The cranberries may also be kept until spring in a small keg or tub of water which is let freeze. The berries may be chopped out at any time and the ice thawed away.

If perfectly dry and kept covered in a perfectly dry place, so that no moisture can be absorbed from the air, clover and timothy seed will keep good for a year or two. Do not risk it longer.

The Dollar Chain

of the committe over £2,400,000, subscribed throughout the British Empire for the relief of our oppressed Allies in Belgium, has passed through its hands. Mr. Goode says:

"I am sure you will join with us in satisfaction at the action of the United States Government in taking over this great responsibility but, at the same time, I hope that if unforeseen emergencies arise, (as they surely will) we may once more depend upon you for further generous assistance.

In compliance with this Mrs. Boomer will be glad to take charge of any do-nations for this emergency fund which sympathizers may entrust to her care for the sufferers in Belgium.

Current Events.

Premier Borden will appoint an officer to conduct a judicial inquiry into the findings in the O'Connor food report.

Greece has severed relations with the Central Powers, and is now definitely on the side of the Allies.

Kerensky has been made Premier of Russia.

Baron Rhondda, British Food Controller, has announced a substantial cut in the prices of bread and meat in Great Britain.

The Government of Russia may be removed from Petrograd to Moscow.

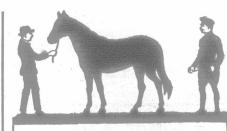
Chancellor Michaelis said in the Reichstag that Germany will now rely chiefly upon the fleet and the submarines to obtain the conditions upon which Germany can demand peace.

Russia admits a reverse in Galicia, due to lack of unanimity in the spirit of the troops. Because of this Kalucz was lost, but an attempt is being made to regain it. . . In the West very fierece fighting is taking place between the French and Germans along the plateau near Craonne, north of the Aisne; at time of going to press all the crest positions remain in possession of the French.

. . Canadian troops are now, reported to be fighting in the streets of Lens, while British troops have made a slight advance near Monchy-le-Preux. During the past week the heaviest air-fighting in the history of the war took place along the British lines.

Some significant changes have taken place in the British Cabinet. Sir Edward Carson has resigned as First Lord of the Admiralty, and has been succeeded by Sir Eric Campbell Geddes. Winston Changed Dr. Christopher Ad Churchill succeeds Dr. Christopher Ad-dison as Minister of Munitions, and Rt. Hon. E. S. Montagu succeeds Austen Chamberlain as Secretary for India.





1209

Join the Government's Thrift Campaign

Make Your Horses Sound

Thousands of Farmers have done so. They have treated lame, limping, broken-down horses with

KENDALL'S **SPAVIN CURE**

and made them strong and healthy. Perhaps you have a horse, crippled with Spavin, Curb, Ringbone. Thoropin, Bony Growth, Swelling, Sprain, Strain or Lameness? Or, you may know of one that can be bought cheap?

Join the Government's thrift campaign-get Kendall's Spavin Cure, the old reliable remedy-and put the lame horse back to work, or in condition to sell for the top price.

Sold by druggists everywhere, \$1 a bottle, 6 for \$5. Also ask for copy of our book, "A Treatise on the Horse", or write us.

Dr.B.J.KENDALLCO. Enosburg Falls



RINGLET BARRED ROCKS - PUREBRED, trap-nested, heavy winter layers, beauty and utility combined; setting \$1.50; 100% fertility guaranteed. Book order now. Particulars, F. Coldham, Barriefield, Kingston, Ont.



COOK; HOUSEKEEPER; FOR COUNTRY residence, close to Toronto. Apply Mrs. Jos. Kilgour, Eglinton, Ont.

⁴ between Brock and Mariposa, near Cannington, 155 acres, choice clay loam, never-failing stream. Brick dwelling, 2 story, 22x32—16x44; bank barn, 56x112, as good as new. All modern conveniences. Implement house, 22x100. A rare chance to get a good home and money-making farm on a leading road. H. C. Shipman, Cannington.

FARMERS URGENTLY REQUIRING HELP, single or married couples, wire, Sares. State wages. Men want sixty dollars per month and women want thirty-five. Toronto Engineering Agency, 57 Queen St. W., Toronto.

WANTED, POSITION AS SHORTHORN herdsman or farm manager by experienced far-mer. (married). Box 73 Collingwood, Ontario.



A fund maintained by readers of The Farmer's Advocate and Home Magazine for the soldiers and all who are suffering because of the war.

Contributions from July 13th to July 20th: Mrs. John Knister, Ruscomb Ont., (for French Red Cross), \$1.00; Howard Gardiner, R. 2, Newbury, Ont., \$2.50; Fletcher Buckland, R. 2, Wiarton, Ont., \$2.00; Wm. Chatwell, Bass Creek, Ont., \$1.00; Fred Moody, Big Lake, Ont., \$1.00; W. J. Moody, Big Lake, Ont., \$1.00; Morley Hanbridge, R. 1, Dobbinton, Ont., \$1.00.

Previously acknowledged.....\$4,790.90

.....\$4,800.40 Total to July 20.....

Kindly address contributions to The Farmer's Advocate and Home Magazine London, Ont.

Re Belgium Relief.

In thanking the many friends who have by their gifts through the Dollar Chain helped Mrs. Boomer to forward to the National Committee for Relief in Belgium no less than eleven remittances of £50 each. She asks space for the following message condensed from the formal notice which she has received from Mr. W. A. M. Goode,the Honorary Secretary.

In view of the fact that the United States Government has generously assumed all financial responsibility for the work of the Commission for Relief in Belgium, it has been decided that the National Committee for Relief in Belgium will suspend its appeals to the public in the British Empire. Any moneys received after June 1st will be held to provide for emergencies now unforeseen in connection with relief in Belgium. During the existence

Manitoba first patents were \$13, seconds being \$12.50, and strong bakers', \$12.30. Ontarios were still steady at \$12 to \$12.30 per bbl., and \$5.75 per bag, but higher prices seem imminent. Millfeed.—The market was stronger.

Bran was up to \$35 per ton, and shorts to \$40. Middlings were quoted at \$41, mixed mouille at \$44 and pure grain mouille at \$48.

Hay.—A large crop is practically assured and prices were about steady at \$11 to \$11.50 per ton for No. 2, with No. 3 at \$9 to \$9.50. Quotations were largely nominal.

Hides.-Lamb skins advanced to 90c. each, the market being very strong. Calf skins were up 2c. per lb., at 38c and 40c., while beef hides were steady at 27c., 26c. and 25c. per lb. Horse hides were steady at \$7 each. Rough tallow was 3c. to 6c. per lb. and rendered 11c. to 13c. per lb.

Cheese Markets.

Cowansville, Que., 20¼c.; St. Hya-cinthe, Que., 20¼c.; London, 20¾c.; Vankleek Hill, 20¾c.; Belleville, 20 15-16 and 21c.; Mont Joli, Que., 20½c.; Montreal, finest westerns, 21¾c.; finest easterns, 21¾c.; New York, specials, 22½c. to 23c; average run, 22c. to 22½c.

Chicago.

Cattle.—Beeves, \$8.40 to \$14.05; western steers, \$8.65 to \$11.60; stockers and feeders, \$6.35 to \$9.40; cows and heifers, \$5.50 to \$12; calves, \$10 to \$14.75.

Hogs. - Light, \$14.10 to \$15.30; to \$14.50. mixed, \$14.05 to \$15.55; heavy, \$14 to Sheep.-Lambs, native, \$10 to \$16.

DICK AGRICULTURE WORKS

T. A. DICK, Manager, Bolton, Ontario

\$15.65; rough, \$14 to \$14.25; pigs, \$11.25

The Breezes Will Keep Your Home Supplied With Running Water FREE SOMETHING FOR NOTHING

F a great electric company offered you free power for all time for pumping water, would you accept? You will install the necessary electric motor, pump and plumbing, and count yourself fortunate. You are fortunate. Nature has provided you with ample power, properly harnessed, to give you running water in every room you desire it.

TORONTO Water Systems

With a Toronto Pressure Tank, a few hours' breeze will give you a day's supply of water. Turn on any tap and get city pressure, with force enough to send a stream of water through a hose over your house -first-rate fire protection. At a moderate cost and free power you get a city waterworks in your home.

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Fit Up Your Bathroom with Modern **Fixtures**

A bathtub like this makes bathing a luxury. A modern basin like this is a convenience that you will appreciate, many times a day. Take full advantage of the new power, and install these modern conveniences at the same time you put in the windmill.

TORONTO Pumping

Our windmill is the most efficient and satisfactory means yet devised for utilizing this power. From foundation to fan tips, it is sturdy enough to stand up to any gale that blows-yet is scientifically built, so that it will work in the lightest breezes which couldn't turn other mills. Used with a Toronto Water System, the wind may blow but an hour or so a day, but you will never have to resort to the pump handle.

WRITE TO-DAY FOR THE **CATALOGUE**

While you have the matter on your mind, drop us a line asking for the booklet of information on Toronto Windmills. Address:

Ontario Wind Engine & Pump Company, Limited Ontario Toronto, Montreal

Winnipeg Regina



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Antidotes For Poisons.

The most common poisons used about the farm at this time of the year are those contained in the common insecticides and fungicides. Below are the commonly prescribed antidotes for such poisons: First.—Send for a physician.

Second.-Induce vomiting (except in cases where caustics have been swallowed) by tickling throat with finger, or drinking hot water or strong mustard and water Soap suds is commonly effective as is also common salt. After vomiting give sweet il (olive oil

1210

Third .- Apply the appropriate antidote, if the kind of poison is known, as follow

Carbolic acid, creosote, lice killer, etc: Give Epsom salts (magnesian sulphate). or Glauber salts (sodium sulphate), one ounce to a pint of water; then induce vomiting if possible or use the stomach tube and give olive oil or milk. Use alcohol, then water, for external burns Diluted alcohol may be used internally

if the salts cannot be had. **Copper.**—(In Paris green, copper sul-phate, blue vitrol or bluestone, Bordeaux mixture): Treat same as in case of arsenic.

Copperas.-(Ferrous sulphate, green

itrol): Strong tea, soapsuds. Lead.—(In lead arsenate, sugar of lead): Treat same as in case of arsenic Epsom salts is also effective.

Trade Topic. A Big Fair for Ottawa.

The Central Canada Exhibition As sociation will spend \$10,000 in improve ments in anticipation of the biggest fair in the history of the Association. Build ings and extension to Lansdowne Park will be commenced at once and all will be in readiness for the big fair to commence Sept. 8 and run smoothly until Sept. 17. In addition to many other new attractions and features an Inter-County Live Stock Judging Competition will be put on with prizes of \$2,000 offered. This is open to farmers' sons in the Ottawa Valley who are not graduates of an agri-cultural college or school. A bacon hog



HINMAN

THE UNIVERSAL MILKER

Think of the time lost milk ing during harvest !

the drudgery that drives boys

away from dairy farms.

SAVE two-thirds of this valuable time by using a

HINMAN MILKER

It enables one man to do three men's work. Write for FREE Milker Book "H."

H. F. BAILEY & SON, GALT, ONTARIO

Stewart's Magic Fly Chaser

Is without an equal in the market. The safest, most lasting and reliable prep-aration to combat attacks of the pestulant fly, which causes live stock owners serious loss in the produc-tiveness of their animals.



\$1.50 per gallon, F.O.B. Toronto 5% discount on 6-gallon orders. $10 \frac{\rm C_{\odot}}{\rm /c}$ discount on orders of 12 gallons or more. Send money order. DR. J. G. STEWART, V. S. Toronto, Canada

diarrhoea high fever and lies down and grunts. What is the cause and cure?

Ans .- It is caused by food or water of poor quality, or by some irritant in the fodder. Treatment consists in removing the cause. Feed on food of first-class quality. In the early stages, while the patient is still strong it is good practice to give 1 to $1\frac{1}{2}$ pints of raw linseed of and in 24 hours commence to give drugs to check the diarrhoea, as 2 oz. laudanum and 1/2 oz. each of catechu and prepared chalk in a pint of water as a drench every 5 hours until diarrhoea ceases. In the meantime add to her drinking water of its bulk of lime water. In cases where the patient is weak, omit the oil.

Fatality in Pigs.

I turned 14 three-months-old pigs into a field of alsike clover. The second day found one dead, and the third day two more were found dead. They were all bloated. I removed them from the field and have had no more trouble. H. C. F.

food Ans.-The sudden change of caused acute indigestion, which resulted in death. Alsike frequently causes trouble in pigs, probably it contains some ingredient that acts somewhat as a poison, when the clover is eaten in larger quantities at first. In most cases where the clover is allowed use only very small quantities the first day, a little more the following day, etc., by which means the system gradually becomes accustomed of it. It can, after a few days be allowed in unlimited quantities, but many think that alsike, under any condition, is not sale for pigs.

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CENTRAL CANADA EXHIBI Ottawa, Sept. 8th to 17th, 1917

\$25,000 In Prizes for Live Stock New York Hippodrome, Vaudeville Acts, Balloon Ascensions, Aviator. \$9,000 for Horse Racing. Pure Food Show. Gov't Exhibits. Dog Show. NIGHT SHOW-Magnificent Spectacle and Fireworks. British advance in Mesopotamia-Destruction of the Forts at Kut-El-Amara. Entries Close August 31st. Reduced Railway Rates.

Stewart McClenaghan, President, J. K. Paisley, Mgr. & Sec'y.

Alloway Lodge Stock Farm

Angus—Southdowns—Collies SHOW FLOCKS

Rams and ewes. Heifers in calf to Queen's Edward, 1st prize, Indiana State Fair.

Robt. McEwen, R, R. 4. London, Ont. Kennelworth Farm Aberdeen-Angus

At special prices, six young bulls sired by Victor of Glencairn. All are of service-able age, and show individuals. PETER A. THOMSON, Hillsburg, Ont.

BEAVER HILL ABERDEEN-ANGUS AND OXFORD-DOWN SHEEP

Cows with calf at foot and bred again. Shearling rams and ram lambs. One Ayrshire bull calf for sale. Alex McKinney, R. R.. No 1, Erin, Ontario.

BALMEDIE ABERDEEN-ANGUS Get high-class Angus bull and breed the cham-pion steers. I have show-ring quality bulls from 10 to 24 months of age; also choice 1 and 3-yr.-old heifers. T. B. BROADFOOT, FERGUS, ONT.

Brownlee Shorthorns. Offers a choice lot of young bulls, ranging in ages up to nine months and sired by the Nonpareil bull, Royal Saxon. See these before buying elsewhere Could also spare a few females. Douglas Brown Bright, Ont., R. R. 3, Ayr Station, C. P. R.

PLASTER HILL HERD

DUAL-PURPOSE SHORTHORNS A few choice bull calves coming on; also a few heifers in calf to Butterfly Champion 110726. F. Martindale & Son, Caledonia, Ont. R. R. 3

WANTED A number of pure-bred dual-purpose Shorthorn females with high records. State in first letter, pedigree, price, full information and give photo of each animal. Harvey Daw, R. No. 1, Glanford Station, Ont. (Maple View Stock Farm)

Questions and Answers. Miscellaneous.

THE FARMER'S ADVOCATE.

Seeding Low Land.

Is alsike and timothy good seeding for a piece of land that is rather wet?

Ans.—The two crops mentioned prove very satisfactory. Alsike does better than other clovers on rather low land; in fact, that is where it makes abundant growth. If seeding to a permanent pasture a little red top might also be added.

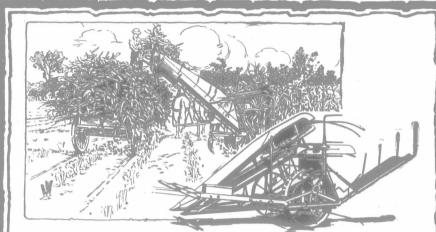
Four-horse Hitch.

1. What is the proper kind of a doubletree to use to work four horses on a two-furrow plow so that none of the horses will walk on the plowed ground?

2. Is there any penalty for people making a noise on the road when they do no harm and are not intoxicated? C. M. A

Ans.—1. It is very difficult to get a four-horse attachment for a small plow that will allow the off horse to walk in the furrow. The long doubletree with a two-horse doubletree on each end is the only practical method of hitching four horses so that each will have the same draft. By having a wide head-clevis on the plow it is possible to move the hitching clevis over far enough so that the off horse will not be forced to walk on plowed ground. However, there is likely to be a side draft. It is difficult to overcome it where only ten or eleven-inch furrows are turned. If your two-furrow plow turns a fourteen or sixteen-inch furrow this style of four-horse attachment will work satisfactorily. Rather than have the off horse walk on the soft ground, we have seen one team driven ahead of the other. By having the reins adjusted

properly one man can drive two teams tandem and manage the plow. 2. A person can be held liable if he knowingly creates a noise or racket which disturbs the peace of the community.



More Corn Money—Less Work

FROM every corn field two crops can be harvested - one of grain and one of hay. The usual practice is to harvest the grain only, and waste the hay. The value of the wasted hay (stover) is estimated at an average of \$260 a year for every corn-growing farmer.

This is something for farmers to think about and to act upon now. Eighty tons of good palatable roughage blowing away or rotting on almost every 40-acre field of corn is too much to waste this year with hay prices where they are. Harvest your corn with a **McCormick Corn Binder** and make two savings — one, the fodder which is now going to waste, the other, a big saving of time and money.

Cutting five to seven acres a day with a tractor or horses doing the hard work, and saving the expense and the trouble of getting corn and harvest help, the corn binder is certainly a machine worth having.

Write the nearest branch house for catalogues and get in your order now for a McCormick Corn Binder, so that you can pocket your share of the corn-crop saving.

International Harvester Company of Canada, Limited **BRANCH HOUSES**

WEST – Brandon, Man., Calgary, Alta., Edmonton, Alta., Estevan, Sask., Lethbridge, Alta., N. Battleford, Sask., Regina, Sask., Saskatoon, Sask., Winnipeg, Man., Yorkton, Sask. EAST – Hamilton, Ont., London, Ont., Montreal, Que., Ottawa, Ont., Quebec, Que., St. John, N. B,



Thirty-five imported cows and heifers, forward in calf to service in Scotland; also five imported bulls. Our 1916 importations are all choicely bred. Have also home-bred bulls and females. Farm half mile from Burlington Junction. Write or call and see us. J. A. & H. M. Pettit, Freeman, Ont. SPRUCE GLEN SHORTHORNS

of such popular strains as Minas, Fames, Miss Ramsdens, Florences, Emilys, etc. Have still a few young bulls—thick, mellow fellows, fit for service. JAMES McPHERSON & SONS DUNDALK, ONTARIO







Questions and Answers. Miscellaneous.

Destroying Sucking Insects on Rose Bushes.

1. Our tea-rose bush is in full bud, but is beginning to die before the flowers are fully out. On examining the leaves we find underneath small white flies. They appear to suck the substance out of the leaves and leave them white. We have tried Paris green and water and also coal oil and water without satis' actory results. What is the proper remedy to use?

oil and water without satis actual, and What is the proper remedy to use? 2. Our turkeys are fairly good sized but are gradually becoming stupid, hang their wings and mope around. They neither pick around nor eat, but stand around with their eyes shut and soon die. It appears to be contagious. They are with a hen and the healthy ones scratch in the garden during the day, while the sick ones hang around the coop. What is the trouble and what cure do you advise? Do you advise feeding chop to young turkeys? Should the hen be taken away from them? V. B. S.

Ans .--- 1. The insects which are attacking your rose bushes evidently suck the sap from the leaves and stems, and, therefore, must be treated differently from those which eat the leaves. Possibly the best remedy for sucking insects on the rose bushes is a strong solution of obacco water, or whale-oil soap, which kills the insects because of its caustic There are also a number of nature. commercial preparations on the market which prove effective. If a little soap had been added to the coal oil and water to make kerosene emulsion it would have proved effective. The proportions of this material are 2 gallons of coal oil, one gallon of rain water and one-half pound of soap. Dissolve the soap in water by slicing and boiling; take from the fire and while hot pour in the coal oil and churn vigorously for five minutes. This is a concentrate solution and when it is to be applied, dilute with nine parts of water. Care must be taken to see that the material is applied to the under side of the leaves where the insects are working. Tobacco water is made by steeping one pound of refuse tobacco in one gallon of water for one hour and apply to the leaves. In making a solution a certain amount of water will evaporate;

this should be made up. 2. Part of the symptoms are those of blackhead, a disease which in most cases proves fatal, as treatment of diseased birds is not very effective. Prevention is the best means of saving the flock. The flock must be kept healthy, and it is necessary to put the birds on new ground each year, as the germs of this disease live over in the ground. A post mortem examination of a victim of blackhead will likely show the caeca, or blind pouches at the lower end of the small intestines, to be thickened. The liver becomes en-



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Ouestions and Answers. Miscellaneous.

JULY 26, 1917

Stud Fees and Colt Queries.

If A bred a mare to B's horse and A sold the mare to C and A did not pay service could B hold C responsible for service? And if C will not pay could B hold the colt at weaning time?

2. If A bred a mare to B's horse for a galloping colt at 9 days old, and the colt was a little weak at 9 days could B collect for colt when all right? 3. Please tell me what is a galloping

colt, one that can stand and walk around? G. F.

Ans.—1. As a rule the terms printed on stallion bills, etc., state plainly that the man who breeds his mare must pay for service if he disposes of the mare whether she is with foal or not. At any rate under the circumstances given in the question the buyer of the mare

to us.

I have a valuable calf which has a thick neck and a small lump about the size of a hen's egg on the jaw. The neck was a little thick when born. The calf has sucked the hind teats of a cow for two The cow always stood down in months. a hole in the stall, which caused a con-siderable strain on the cords of the neck. The lump does not appear sore, and the calf is doing well. Does this require any special treatment, or will it come all right?

Ans .- It is rather difficult to account for the thickening of the neck. You do not state whether the lump was on the jaw when the calf was born, or whether it has developed lately. It may be lump jaw, or it may be a tumor which has de-veloped from a bruise. If the lump does not appear sore nor interfere with the calf's feeding, it might be well to delay operating for a time and bathe with hot water and apply an absorbent liniment. If this does not remove it, the lump may be dissected out if it is not attached to the bone. If attached to the bone the iodide of potassium treatment might be used when the calf got a little older. It would be advisable to have your veterinarian do the work if you decide that an operation is necessary.

Value of Brewers' and Distillers' Grains.

Please state the relative feeding value of the grain refuse from a brewery or distillery and whole grain. R. M. W. Ans.—It is difficult to compare brewers'

and distillers' grains with normal grain pound for pound. The value of these by-products depends larely upon the quantity in the ration. Wet brewers n about 75 per and have slightly over one-fourth the feeding value of an equal weight of dried grains. Owing to their tendency to sour they are also less satisfactory to feed. Owing to their bulky nature dried brewers' grains are not well suited to pigs. They are widely fed to dairy cows and in some cases form a part of the concentrate allowance for horses. Experiments at the New Jersey Station show that where oats were substituted in a mixed grain ration for horses with dried brewers' grains the change produced no ill effects on the horses, and the conclusion was reached that pound for pound good-quality dried brewers' grains were fully equal to oats. With dairy cows where this by-product has formed a part of the ration it has been found equal to wheat bran. Dried brewers' grains have given good results when fed to fattening cattle, but they are seldom used for sheep. Distillers' grains from corn contain from 28 to 32 per cent. crude protein and are, when dried, about equal to gluten feed in feeding value. Dried grains chiefly from rye are of con-siderably lower value, carrying only about 23 per cent. protein. Not being especially palatable, distillers' grains should be mixed with other concentrates. From two to four pounds per head daily are usually fed to dairy cows and when fed as a part of a ration it has been found equal and in some cases slightly superior to an equal quantity of cornneal and bran. These grains when dry, meaning distillers' and brewers' grains, should form only a part of a ration and when used thus are in practice about equal to a like amount of millfeeds or chop.



A Warning to **Cow-Owners**

The weeks are slipping by. Summer is here, and fall soon will be.

If you have not yet made plans for a silo, we urge you, in the name of hard, practical common sense, to do so without further delay.

This is no time to waste food or waste money. The man who owns cows and does not own a silo is doing both.

He is spending 15 or 20% more for feed than he needs to, and is getting 25% less milk than he could.

Every farm paper on the continent has been urging its readers to put up silos this year. It is common knowledge among successful dairymen that no other equipment is so necessary to the cow-owner.

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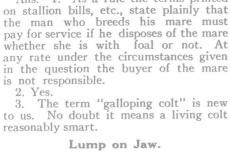
Don't let another winter catch you without an IDEAL GREEN FEED SILO

Make your plans right now to have one ready to receive your crop this fall.

A good silo is the best investment any cow-owner can make, and there are definite reasons why the Ideal is the best silo to buy.

These reasons are fully explained in our silo catalogue. Sit down and write for this catalogue now, before you forget it. There is little time to waste. Freight conditions make silo shipments uncertain, and you will avoid the possibility of delay and inconvenience by ordering your silo now.

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For over thirty years we have been one of the largest buyers of wool in Canada. We could not continue in business for this length of time if we had not treated our customers fairly and paid top prices.

We send your money the same day as wool is re-ceived, only deducting freight or express charges. We are now paying for wool as follows:

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Ship to-day, or write us telling how much wool you have, if washed or unwashed, and breed of aheep clipped from. We will then quote you a straight price and send you shipping tags with



From choice stock on both sides. Several young litters. Also some young sows, ready to be bred.

WELDWOOD FARM Farmer's Advocate, London, Ont.



THE FARMER'S ADVOCATE.

Questions and Answers. Miscellaneous.

Age of Mules.

What is the average age which mules live? J. J. C.

Ans.-Mules are longer lived than Ans.—Mules are longer lived than horses, and have been known to do effective service at thirty years of age. In "Types and Breeds of Farm Animals," by Plumb, it is stated that "cases are recorded of mules living to seventy years of age." The average age of usefulness extends probably to between twenty and twenty five ways twenty-five years.

Following an Award.

A B C and D petition a municipal council to have a ditch cleaned out, for the purpose of giving better drainage of the It is an award drain. An engineer land. took the levels, made assessment and gave the estimate of cost of work, and recommended that a tile be put in on one side of the road and the dirt taken from the ditch on the other side of the road used to fill in over the tile. The owners of land benefited by the drain were assessed accordingly. Everything has been done in compliance with the Municipal Drainage Act which gave all parties a chance to appeal at a certain time but no one did so. However, when it is too late, one ratepayer says they can put the ditch in front of his farm but that he will stop a contractor putting the dirt in the place previously mentioned. Can he stop the contractor from doing so, when he is going by the engineer's report? D. M

Ans .- From the information given the ratepayer has no right to stop the con-tractor who is following the engineer's award. If he was not satisfied with the way the work was to be done he should have appealed against the award at the proper time. Failing to do so then was practically as much as saying that he was satisfied

Concrete Stable Floor.

1. I recently put a cement floor in my stable and would like to know if it is advisable to allow the cattle to stand on the bare cement or would it be better to cover the floor with lumber? 3. Should horses stand on bare cement

or plank?

3. Is there any danger of pigs crip-pling if allowed to sleep on a cement floor?

4. My cattle stable has 2 inches of a slope in 6 feet towards a trench, and has 6 inches of a slope in 40 feet towards the door. Is that sufficient? This is my first experience with concrete floors.

5. What slope should the horse stable floor have in the stalls? Would it be better left level behind them? J.H.

Ans .--- 1. In many stables the cattle stand on the bare cement with apparently no harm. However, there are some who claim that their dai cattle have udder trouble, due to coming in contact with the cold cement. Some lay inch lumber on top of the cement, but we doubt if there would be much trouble, provided you have a fair quantity of bedding to keep under the cattle.



farm crop competitions and extended

JULY 26, 191

Wilkins LEGISTER Er St

Our "B" n the farmer. -it will c into the hig into the m raise 6 inches compact cuttin out stopping. pneumatic del No lodging, e balance. Stee

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MEADOW BROOK YORKSHIRES From the best strains of the breed. A choice lot of young pigs of either sex and almost any age. Also sows bred and others ready to breed. Prices reasonable. G. W. Miners, Exeter, Ont., R. R. No. 3. Huron Co.

Morriston Tamworths and Shorthorns. Bred from the prize-winning herds of England. Tamworths, both sexes; 12 sows, bred to farrow in August and September. Young boars, from 2 to 10 months old. Shorthorns, males and females. Chas. Currie, Morriston, Ont.

TAMWORTHS Young sows bred for Fall farrow, and a nice lot of young boars for sale. Write: John W. Todd, R. R. No. 1, Corinth, Ont

YORKSHIRES Sows 170 lbs. and under not yet bred. Boars 2 and 3 months, 60 to choose from. Bred from prize-winning stock, Eldon Duke still at the head. Tell us your wants. your wants.

Wm. Manning & Sons, Woodville, Ontario.

Champion Berkshires — When buying, buy the best; our present offering are sons and daughters of the two great champions, Lucky Lad and Baron Compton, and out of winners, including champions. Both seres, W. W. Brownridge, Georgetown, Ont., R.R.3.

Berkshire Pigs Registered stock, choicely bred young boars, and sows in pig, all ages. Can supply pairs not akin. CREDIT GRANGE FARM

J. B. Pearson, Mgr., Meadowvale, Ontario.

When writing please mention this paper.

2. We prefer a plank floor for the horses. If they are allowed to stand on the concrete their shoes would not remain sharp very long. Two-inch plank could be laid on top of the concrete.

3. Where there is a scarcity of bedding there is a certain amount of complaint regarding hogs crippling on cement. However, concrete floors are permanent and sanitary, and any difficulty from crippling can be overcome by having a raised sleeping place. A floor about 6 feet square, raised 2 or 3 inches, would be satisfactory.

4. Two inches' of slope in 6 feet will certainly drain the moisture away, and is a little more than is generally used. It is not advisable to have breeding stock lying on floors with too great a slope. However, the 2 inches in 6 feet should not give trouble. The slope in the trench is sufficient. Cement is coming into general use for stable floors, and if it is properly put down you will find it very satisfactory. In laying the floor, especially the passageway, it should be left a little rough so as to lessen the danger of the stock slipping.

5. Two inches in the length of the horse stall would be sufficient slope. The passageway might be a trifle lower than the stall, but it is better to have it comparatively flat rather than sloping, so as to prevent slipping.

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JULY 26, 1917

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THE FARMER'S ADVOCATE.

Ensilage and Straw Cutter Our "B" machine, built especially for the farmer. A combination machine it will cut and deliver green corn into the highest silo or dry straw or hay into the mew. 12-inch throat, rolls raise 6 inches and set close to knives — solid, compact cutting surface. Can change cut with-out stopping. Can be reversed instantly. Direct pneumatic delivery. Knife wheel carries fans. No lodging, everything cut, wheel always in balance. Steel fan case. Made in two styles-mounted or unmounted. We also make larger type machine for custom work. Ask your dealer about this well-known machine and write us for new catalog showing all styles. THE BATEMAN-WILKINSON CO., LIMITED 41 Jampbell Ave. Toronto, Canada LIFT YOUR CORNS OFF WITH FINGERS Tells How to Loosen a Tender Corn or Callus so it Lifts Out Without Pain. A noted Cincinnati chemist discovered a new ether compound and called it Freezone, and it now can be had in tiny bottles as here shown for a few cents from any drug store. You simply apply a few drops of Freezone upon a ten-der corn or painful callus and instantly the soreness disap-pears, then shortly you will find the corn or callus so loose that you can just lift it off with the fingers. No pain, not a bit of sore-ness, either when applying Freezone or afterwards, and it doesn't even irritate the skin. Hard corns, soft corns, or corns between the toes, also toughened

calluses, just shrivel up and lift off so easy. It is wonderful! Seems magical! It works like a charm! Your druggist has Freezone. Ask him!

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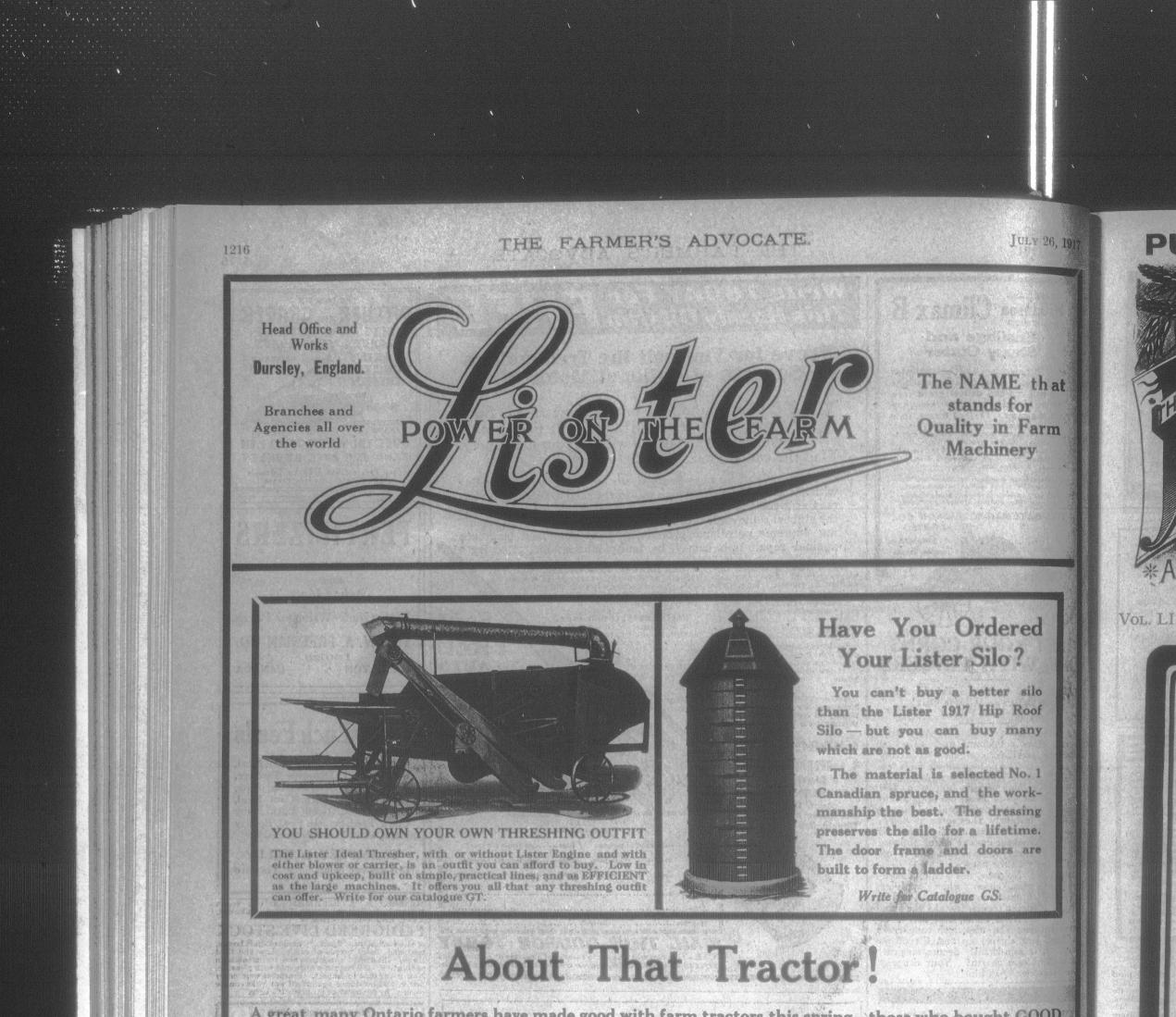
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we will send you photos of AVERY TRACTORS in use in Ontario, and testimonials from the owners.

You can practice the best methods of farming with a tractor. -Plow deep and do all your work at the right time to get the best results. Besides, you have all the power you need for belt work.

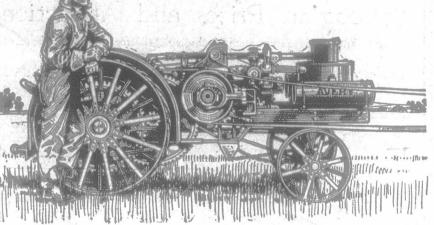
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