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Operated by the

One of a Big Chain of Elevators

Marketing Grain Without Gambling On Prices

Canadian Grain Growers Have Done Big Things by Combining to Market Their Grain Crops .-- By Earle W. Gage

it goes through the natural channel of the grain growing business in Canada. trade, where a dozen men decide its

Many think because the government connect with the large has set a price on wheat that growers elevators. The are going to get more profit. They Grain Dealers' are—provided they demand it. But Exchange was selling wheat at government prices, the first organiand receiving all the profit possible, are two different things, as many wheat growers know.

Canadian grain growers have been ered that they doing big things through cooperation. were neither re-They have the world's greatest farm- ceiving freight ers' cooperative enterprise; the grain service nor pric-Growers' Grain Company, of Manitoba, and the Alberta Farmers' Cooperative Low prices were Elevator Company joined hands after it was foreseen that they could do points and there team work profitably, and formed the were many commost powerful grain exchange, entire- plaints of underly in the hands of the farmers.

last year of \$100,000,000. It operates the three wheat-growing provinces.

been working only eleven years. And bution of products.

HERE is more gamble in a bush- of the fifteen million acres of wheat el of wheat than anything I now in Western Canada, more than know of," said a farmer who two-thirds will come under cooperative belongs to one of the cooperative control, so that you can see these men growers' associations, "especially when have been ironing the wrinkles out of

Winnipeg is the greatest primary destiny and price; men who never did grain exchange in the world. More a solitary thing to produce it, and to than 275,000,000 bushels of wheat are whom no one, farmer or consumer, handled each year. Railroads from the great wheat-growing sections

> zation, but in due time the

United Grain Growers' Ltd., has more that salvation lay in organizing to han- greatest success. It was organized offtimes unfair, forced by organized than thirty-five thousand shareholders. dle their own products. They success- with the idea of making a company interests, was waged against these assets of \$6,000,000, and a turnover fully organized three associations, in which should obtain a seat on the grain growers, who had a big vision

nearly four hundred grain elevators, Local associations were the initial a commission agent for consignments obstacle that the grain dealers failed two hundred and fifty flour warehous- organizations, later joining into large of grain, either domestic or foreign. to put in the way of these men, it was es, nearly two hundred coal sheds, two associations, the object being a com- It did its first work in 1905 with some because they didn't think of it. But terminal elevators, two implement bined plan of action. They learned forty stockholders. It grew, and the the old prophecy, "right rules might," warehouses, and a large timber mill. how to get together, work together, following year a seat in the Grain Ex- came true in the case of the farmers. It also owns a large timber tract and then how to stay together. The change was purchased for \$2,500, and These figures are more impressive methods of grain culture, seed selec-

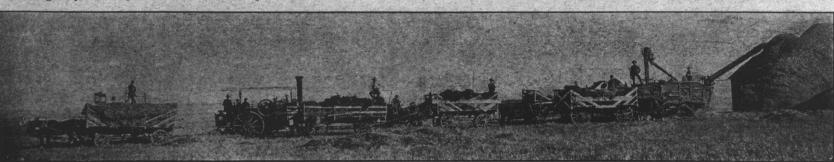
in the hands of the farmers. Weighing and heavy dockage charges. Up until the joining of hands, the had depended upon a middleman for The company, now known as the Abuses grew until the farmers realized Grain Growers' Company had the all their sales. Heavy competition,

without previous experience, but who

Winnipeg Grain Exchange, and act as of better things. If there was any

The organization prospered, becomwhich supplies lumber to the com- organization aimed to influence legis- a line of credit established by the ing the largest single factor in handpany's shareholders and other farmers lation to bring about improvement in joint signatures of grain growers. Few ling grain in the Winnipeg Exchange. in Canada. More than one thousand marketing, grading, and transportation things in connection with business The secret of its success lies in the people are employed by this great of grain. Another work was the profarming are more interesting than the very fact that its members hung loymotion of advanced and improved starting and growth of this association. ally together in the face of discourage-The organization started in debt ment. They faced ruin and defeat, but when we remember that the idea has tion, purchase of supplies, and distri- from the very first, began with leaders would not see it, and even advanced





At Threshing Time the Ears of the Crop Reporters Are Turned Toward the Great Wheat Fields of the Canadian Northwest.

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CURRENT COMMENT

Germany's Peace Note

S we go to press A the world is anxiously awaiting President Wilson's reply to Germany's first direct and formal bid

for peace. But the people of our own and allied countries appear to be united in the opinion that Germany's offer to make the President's announced peace program the basis for negotiations falls far short of the unqualified acceptance of that program as a basis for peace, to which Germany must undoubtedly come before peace may

The German note was transmitted ing point. to the President through the medium of the Swiss government. It asks the President to take in hand the restoration of peace, to acquaint all of the belligerent states with the request and Equipment invite them to send plenipotentiaries for the purpose of opening negotiations. It accepts on the part of the German government the program set forth by President Wilson in his message to Congress on January 8 and in his later pronouncements, especially his speech of September 27, as a basis peace negotiations, and asks for the immediate conclusion of an armis-

the German note as given through the as possible. press reports, two ideas have been strongly voiced. One generally expressed thought is that by means of inauged the same and inauged to lay bare before the antiquency of the influence in the National Milk Production of the same and inauged to lay bare before the antiquency of the Influence in the National Milk Production of the same and inauged to lay bare before the antiquency of the Influence in the National Milk Production of the same and inauged to lay bare before the antiquency of the Influence in the National Milk Production of the same and inauged to lay bare before the antiquency of the Influence in the National Milk Production of the Influence in the sparring for time until winter brings urgency of war needs. This means that Michigan Milk Producers' Organiza-

America have fully absorbed the idea otherwise it may be impossible to semanufacturers to know what the findthat Germany is not to be trusted, and cure equipment for next year's use ings of the Detroit Commission would resolutions, nominations. Election of that a lasting peace brought about by when it is needed.

negotiation with the German government is not possible of attainment. What the official answer to Germany's appeal may be cannot, of course, be forecast, but it is a safe conclusion that there will be no thought of a peace, the terms of which shall in any justice and human liberty to every people for which we are fighting.

Past events make it certain that the official reply will be made as promptly as diplomatic usage permits, and as clearly as the English language can be made to express our government's position. In the meantime, the answer of loyal Americans will have been written on applications for Liberty Bonds to an amount which will for-"peace offensives" directed against the American people are wasted effort.

Selling the Wheat

Administration assuring farmers that there is no need whatever

"Reports reach the Food Administration that some farmers are selling their wheat at less than the guaranteed price because of the railway embargoes placed in parts of the country against wheat shipment. While the el-evators are temporarily overstocked because seaboard movement has not because seaboard movement has not kept pace with internal movement, this condition should be improved during the next thirty or sixty days. No farmer who will have patience until the situation improves need sell below the guaranteed price, for the government will buy all wheat as fast as it can be moved."

Obviously, all of the country's wheat crop cannot be moved at once. Under such as taxed the elevator and transportation facilities of the country would have demoralized the wheat market. While there is a natural inclination on the part of farmers to cash in on the wheat crop because of the fixed price, those who are in a position to hold their wheat for a few weeks will be able to market it in a less busy period, which will be some compensation. Certainly no farmer should sell his wheat to any profiteerhandling charge and the cost of trans- cost of production than eyer before. portation to the nearest official receiv-

Anticipate Needs

facturers of agricultural implements indicate that dealers are not stocking up liber-

ally with equipment for the late fall experience of many farmers who have your business a respectable standing undertaken to buy needed farm equipment from local implement dealers supports this theory. This being the case, it is more than ever necessary how much you have done in the last 11:00 a. m., call to order.

Address, "Past, Present and Future of the Milk Producers' Association," President N. P. Hull.

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11:30 a. m., Department of the Milk Producers' Association, and the milk Pro case, it is more than ever necessary how much you have done in the last for farmers to anticipate their equip- years for your own business along the ment needs and place orders for same only line that can work out a profit:

materials, particularly steel, due to the sand up-state members have given the sparring for time until winter brings relief to her battered armies, and another commonly expressed thought is that the peace note, coming at this means that the peace note, coming at this mitters in the midst of our Fourth Libnites, it will be impossible to secure success by giving the people of America the idea that the war is practically over and that their continued financial support is unnecessary.

These very commonly expressed to hought is materials, particularly steer, due to the state to the state of the farmers of their communities, it is the part of wisdom place his orders at the earliest possible to secure is ted two months, and yet the advanced price on your milk has been determined financial support is unnecessary.

These very commonly expressed thought is urgency of war needs. This means that Michigan Milk Producers' Organization Could not have extended the idealers of any section do not ton for the last year. Had it not been for the support of the Detroit area, the resident organization could not have extended to make a survey of this reason, it is the part of wisdom place his orders at the earliest possible to secure is ted two months, and yet the advanced their Benefit Trom, and Obligation to Understant their Benefit Trom, and Obligation to, the Organized Movement?"

Five-minute talks, M. L. Moon, Jackson; W. H. Keddy, Fenton; Robert C. Blank, Maple Rapids.

3:15 p. m., "How Can the Up-state divine to the organization could not have extended their state organization could not have extended the industry." Ex-Gov. Fred M. Warner.

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Criticizing the Farmer

THE other day the

way be dictated by the German gov- big thing out of this war. "Why," he everybody should get proper remunerernment, or which does not insure the said, "Look at the price of wheat. A ation for their services and investment lasting peace and the full measure of few years ago wheat was selling at so usually these criticisms of the farmeighty to ninety cents per bushel and er come from a misunderstanding on ting \$2.00."

thought more about this problem than cause he never has endeavored to he had. He remarked, "The present place facts before the consumer showprice of wheat was fixed by a commit-ing what it costs to produce various tee appointed by our government. That crops in different years. committee represented consumers and This conversation between these producers and transportation men, in two consumers is an illustration of fact, all classes of citizens, and as what could be done in a large way by ever convince official Germany that near as they could they based the a national chamber of agriculture. Depresent price of wheat upon cost of termining the cost of production for production and a decent profit to the one individual farmer is better than farmer. Now, it seems to me that no nothing. To get the average for one A N official state- fairer method could be devised for decounty is better still. To get an averment was recent- termining what the farmers should get age for the whole state is fine. But in ly issued by the Food for their wheat. I am convinced that order to get properly before the high many of us criticize the farmer un- court of public opinion, as Professor justly because we do not know how Rood says, we must have average cost much it costs to produce crops. We for the whole country, and when this of selling wheat at less than the guar- must admit that the farmer is entitled is ascertained there will be but little anteed price. The text of this state- to what it costs him to produce the chance for consumers to criticize the ment follows:

crop, and a fair profit."

price which the producer gets.

This argument satisfied the fault writer, while on finder; he hadn't looked at it in that a train, overheard a way. It had not occurred to him that conversation touching the Tarmer should figure on cost plus upon the farmer's a profit, like various manufacturing inprofits. One man de- dustries, but most people are inclined clared that the farmers are making a to be fair and they are willing that even less, and now producers are get- the part of the consumer. The critics don't understand conditions. And the His companion was a man who had farmer is largely to blame for it be-

Milk Producers of Michigan

A Message from Field Secretary R. C. Reed

terests. They are protected by sure industry. profits fixed by the government.

at least the cost of milk and butter- to the organized movement. fat, feel the need of a general organitire country.

Stop and Think!

Stop and think why, in the last year, ing miller or elevator man below the you have come from ten to forty per guaranteed price less a reasonable cent nearer a price that equals the

each cow you own.

Think that men, like Hon. Milo D. Campbell, President of the National the officer of your local, have been the following program:

be, and when this finding was made officers.

N Washington right now there is a known the up-state price of the manucontinuous hearing going on with facturing plants was largely controlled the Food Administration upon the by it. So your price is fixed largely by price to be paid for butter and butter- the Detroit Commission, which was fat for the next six months or year created by the Michigan Milk Producahead. This will be followed upon others' Association; which has had the er milk products. The manufacturers sanction of the governor of the state normal conditions a heavy movement and dealers are interested, organized and the broad-minded men who are inand on the job to look after their in-terested in the stabilizing of this great

The Detroit market is today the Our representatives at the seat of backbone of the Michigan milk margovernment, who have been struggling ket, and you are getting the benefit. for a price that will give the farmers Think this out and see what you owe

I know of one place today, outside zation of milk producers over the en- of Michigan, where there is no Milk Producers' Association, and where milk is under contract until January 1, 1919, for \$2.00 per hundred pounds.

A Call to Arms.

Now is the time for all loyal members to come to the aid of their Think why the broad-minded men of association. If you will be counted the nation are asserting that, as a re- with those who are striving for a legitsult of our organized movement, you imate basis for your business, then be R EPORTS from a have received in the last year at least with us at the annual meeting at the number of manuten dollars increased income from State Capitol, Representative Hall, have received in the last year at least with us at the annual meeting at the Lansing, October 22, at 11:00 a. m. Every local is entitled to four delegates. Be sure to have a good repre-Milk Producers' Federation, down to sentation. We are proud to present

12:00 m., Dinner.
1:00 p. m. sharp, report of auditors, report of treasurer, report of secretary.
1:30 p. m., "The Milk Producers' As-In general discussion of the text of as far in advance of their actual needs and place orders for same only line that can work out a profit:

1:30 p. m., "The Milk Producers As namely, the organized movement. How sociation: what it has done for you; ess reports, two ideas have been much have you put into this? I would what you should do for it," Prof. A. C.

Association.

Association.

The Relation of the Pairy

CORPORATION FARMING

HERE are in Michigan numerous instances of large farming operations carried on from different motives; some to gratify the innate desire to subdue the earth and make it bring forth its products, others to apply some ideas of live stock growing, establish an American estate or be a country gentleman.

Near Alger, in Arenac county, there is an unique undertaking by a corporation of shareholders of moderate means to solve at least three problems; first, to be assured of their own food supply; second, a safe and profitable investment, and third, to participate in the world's great patriotic service.

The location of the farm was well chosen for there was a sufficient area under cultivation to allow the corporation to do a considerable job of farming at once, and still a large area to bring under cultivation, which will increase in value so that the farm can pay modest dividends and have a surplus in the increased valuation of the farm. To have purchased a farm in the older sections of the state this increasing increment would not have been an asset. Under the old agricul- machinery. The present and prospec- directly to the stockholders and conoperating his farm.

ital investment. By hand-labor indusequipped farm with modern power and potatoes to Cleveland and distribute will benefit the whole agricultural sec- achieve success.

It Produces Food and Provides Safe Investment for Surplus Capital. By JAMES N. McBRIDE



A Field of Potatoes on Farm of Cleveland Community Company.

inadequately equipped, where the la- and was put into the service late in would be available at a good profit.

The work of building a farm is slow-bor is personal, with the crude ma- the spring. Splendid crops of oats

The meetings of the neighborhood er than most persons realize, but evchinery it corresponds more nearly to and barley have been harvested, and people at this farm are events of im- ery day there is being added increased the shoe shining parlor or barber shop, the photograph of the large potato portance. It is broader than most ag-values and betterments, which are a when these are compared to the in- field speaks for its area and careful ricultural meetings for it is inclusive, part of the work. • The Community vestment and employment of a fully cultivation. It is planned to send the without membership or creed. What Farms Company deserves and will

tural regime much of the gain of agri- tive range of farm prices would also sumers. The bean crop can be handculture came in that way so that the seem to be an assurance of productive led in the same way. It is a healthy peonage, it is also a feature. Ameriowner, when he retired, had an asset production. Much of agriculture in the economic sentiment that interests the can democracy can now apply the idea which did not seem real to him when years past has not been productive in actual consumer with the problems of clothed in separate form, where the the sense of adequate pay and to food production. The future plans interest is to serve all, is getting a Can a large farm, managed as a cor- leave a margin for improvement and that may be worked out would include good start at the Community Farm poration does other business, be made continuance. It is the introduction of a midget mill in the elevator, where Company. to pay? This is a fair question to ask, the business type of farm corporation the grains could be milled into flour especially when many large farms have which will aid the individual farmers or breakfast food, a creamery where it would seem that development will failed non-resident owners. The an- in price matters. The large farm will dairy products could be made ready follow with success. The sheep indusswer would seem to be that with mod- raise the level to that of the higher for the city consumer, and the by-proern machinery agriculture has been plane of production, and the ability of ducts converted into finished pork pro- mer range on the cheaper lands away taken out of the hand-labor industries, the larger farm to determine price ducts. A canning plant is also under and can be made to conform to the grades and distribution will be most consideration for, in addition to the roughage on the farm for winter feedoperation of similar industries in cap- healthy to all engaged in agriculture, ordinary farm-grown crops for canning ing. There is also under considera-Carl Robinson is the manager of the there is usually a large huckleberry tion the development of a large apiary, tries one means that the small farm, Cleveland Community Farm Company, crop to the north of this place which for bees do well in this section.

tion is the general scope of discussion. There are light refreshments and the yard is filled with farmers of the country adjoining.

Heretofore the ability to get prompt threshing of the grain crop in that section has been a disheartening one. The Community Farms Company have brought in a small unit grain separator operated with tractor power. This outfit is easily transported, gets into action at once, and has a reasonable capacity. It was easy to thresh one bushel of barley per minute. The grain crop in this section of Arenac county is a fair average with other portions of the state. Fields of oats, barley, and spring wheat were being harvested that would yield very high. The Marquis variety of spring wheat seems most promising. There is a difference of opinion as to whether this has been an ideal season for spring wheat. There was little or no rust development, but rather too little moisture for best crop making.

In different sections the idea of a farm under central management is an engaging one. In the southern states under the slave labor system, this was well worked out. In Mexico, under

There are so many opportunities that try could be made a feature with sumfrom the present holdings, and use the

Dust, Bacteria, Bad Odors and Flavors

ing steps for their elimination on every farm; and already much prevention work has been accomplished on the better class of dairy farms.

In every business where food is quality, if not actual spoiling. Dustlessness pays. Cleanliness is next to profits. Dust inside a dairy barn or When the trouble is studstruction. ied, and when the cause is corrected be partially solved. The president of one of the big city milk companies recently said to the writer: "We place more stress upon the sedime than upon the bacteria count, because if milk is comparatively free of sediment the number of bacteria, as a rule, will not be excessive." In a broad way the ceiling of the side walls and overhead of the dairy stable and milk house with lath and plaster or matched material will lead to the production of cleaner milk. Bacteria are closely related to dust when it comes to producing sanitary milk, and the same care in stable and milk house construction produces as pleasant results. It is still impossible to produce a germless milk-a few dust particles and bacteria enter the milk in such mysterious ways that there will always be more

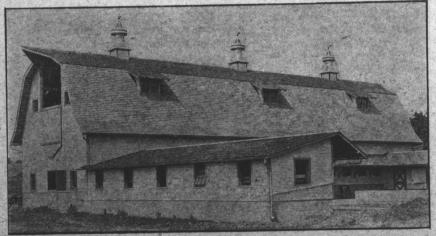
UST, bacteria, bad odors and fla-vors are four wastes so big that Handling the Milk and Methods of Feedtoday the dairy interests are ed stables care must be exercised in dealing with them as live issues, tak- ing Determine the Healthiness and Flavor feeding, cleaning the stables, bedding

and practical.

the problem of reducing the amount interested in the fact that dust and need less food than is the case when of sediment and bacteria in milk will bacteria are injurious to the health of they are confined in a stable, and ex-

careful stable management has reduc- ures were introduced. In a little while ed the amount of dust and number of it was found that the cows produced bacteria to such an extent that the better milk, more of it and that the handled dust means direct lowering of milk produced on many farms is a men were better-tempered through the pure and healthful food. As the dairy day and less tired at night. Dust and farmer understands that this sort of bacteria in the dairy barn often indithing pays the incentive to abolish cate something out of balance. When milk house often indicates faulty con- dust and bacteria becomes very direct the trouble is studied and the cause is corrected the cows will produce better A few dairy farmers have become milk, more of it, remain healthy and

or less trouble from such sources, but their cattle. Many preventative meas-



Clean Barns Are Essential to the Production of Clean Milk,

posed to bacteria laden dust and dirt.

Even in the most carefully constructed stables care must be exercised in culation of the air in the stable and milk house. Hay and roughage should not be fed until after milking time and it is better to change the bedding material during the middle of the day so that the dust will settle before milking time. If milking machines are used care should be taken not to allow the teat cups to hang close to the floor where the suction will draw dust into them and deposit it in the milk.

Healthy cows secrete healthy milk. Bacteria get into the milk after it is drawn from the cow or in the process of milking. The cow is not the guilty party. Milk does not come from the cow entirely free from bacteria, because it is impossible to keep the teats of the cow sterile; however, we can keep them clean and reduce contamination from this source. The ducts of the teats and the body temperature of the cow afford ideal conditions for the bacteria to multiply and, the best we can do, the lower ducts of the teats will contain considerable numbers of bacteria. By using the first few jets of milk to wash out the ducts, the milk that goes into the pail will be practically free from bacteria. If proper care is taken at this stage of production, the few bacteria which get into the milk from this source are of but

(Continued on page 340).

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undertaken to buy needed farm equip- in the eyes of the world. ment from local implement dealers Then think again—now think hard, 11:30 a.m., Appointment of commit-supports this theory. This being the you up-state milk producers. Just think tee on nominations, resolutions. ment from local implement dealers In general discussion of the text of as far in advance of their actual needs namely, the organized movement. How

urating peace talk Germany may be sparring for time until winter brings relief to her battered armies, and another commonly expressed thought is that the peace note, coming at this time in the midst of our Fourth Liberty Loan, may have been aimed at its success by giving the people of America the idea that their continued financial support is unnecessary.

These very commonly expressed to the time and the sand up-state members have given the surgency of war needs. This means that Michigan Milk Producers' Organization to the Organized Dairy if the dealers of any section do not tion for the last year. Had it not been for the support of the Detroit area, the for the support of the Detroit area, the needs of the farmers of their communities, it will be impossible to secure is ted two months, and yet the advance this reason, it is the part of wisdom mined largely by the Detroit Milk Producers' Association.

2:30 p. m., "The Relation of the Government to the Organized Dairy Industry," Ex-Gov. Fred M. Warner.

2:50 p. m., "How Can the Up-state will two months, and yet the advance is ted two months, and yet the advance of price on your milk has been detered to milk producers' Association.

2:30 p. m., "The Relation of the opposite two months, and yet the advance of price on your milk has been detered two months, and yet the advance of price on your milk has been detered to make a survey of or every farmer to make a survey of or every farmer to make a survey of this reason, it is the part of wisdom mined largely by the Detroit Milk Producers' Association.

2:30 p. m., "The Relation of the opposition of the Organized Dairy Industry," Ex-Gov. Fred M. Warner.

2:50 p. m., "How Can the Up-state organization could not have expected two months, and yet the advance of price or your milk has been detered two milk for every farmer to make a survey of milk for Detroit.

Some the dealers of any section do not to the organization could not have expected two months, and yet the advance of price or your milk has been detered two mont America have fully absorbed the idea otherwise it may be impossible to se-manufacturers to know what the find-

the Farmer

ever convince official Germany that near as they could they based the a national chamber of agriculture. Deis no need whatever much it costs to produce crops. We for the whole country, and when this of selling wheat at less than the guar- must admit that the farmer is entitled is ascertained there will be but little anteed price. The text of this state- to what it costs him to produce the chance for consumers to criticize the crop, and a fair profit."

HE other day the This argument satisfied the fault writer, while on finder; he hadn't looked at it in that a train, overheard a way. It had not occurred to him that conversation touching the Tarmer should figure on cost plus upon the farmer's a profit, like various manufacturing inprofits. One man de- dustries, but most people are inclined peace, the terms of which shall in any clared that the farmers are making a to be fair and they are willing that way be dictated by the German gov- big thing out of this war. "Why," he everybody should get proper remunerernment, or which does not insure the said, "Look at the price of wheat. . A atton for their services and investment lasting peace and the full measure of few years ago wheat was selling at so usually these criticisms of the farmjustice and human liberty to every eighty to ninety cents per bushel and er come from a misunderstanding on even less, and now producers are get- the part of the consumer. The critics don't understand conditions. And the His companion was a man who had farmer is largely to blame for it beas diplomatic usage permits, and as thought more about this problem than cause he never has endeavored to clearly as the English language can be he had. He remarked, "The present place facts before the consumer showprice of wheat was fixed by a commit-ing what it costs to produce various

written on applications for Liberty producers and transportation men, in two consumers is an illustration of "peace offensives" directed against the present price of wheat upon cost of termining the cost of production for production and a decent profit to the one individual farmer is better than farmer. Now, it seems to me that no nothing. To get the average for one A N official state fairer method could be devised for decounty is better still. To get an averment was recent termining what the farmers should get age for the whole state is fine. But in ly issued by the Food for their wheat. I am convinced that order to get properly before the high Administration assur- many of us criticize the farmer un- court of public opinion, as Professor ing farmers that there justly because we do not know how Rood says, we must have average cost price which the producer gets.

Milk Producers of Michigan

A Message from Field Secretary R. C. Reed

price to be paid for butter and butter- the Detroit Commission, which was fat for the next six months or year created by the Michigan Milk Producahead. This will be followed upon others' Association; which has had the er milk products. The manufacturers sanction of the governor of the state and dealers are interested, organized and the broad-minded men who are inand on the job to look after their in- terested in the stabilizing of this great terests. They are protected by sure industry. profits fixed by the government.

at least the cost of milk and butter- to the organized movement. fat, feel the need of a general organitire country.

Stop and Think!

Stop and think why, in the last year, ing miller or elevator man below the you have come from ten to forty per guaranteed price less a reasonable cent nearer a price that equals the

the nation are asserting that, as a re-

Think that men, like Hon. Milo D. Campbell, President of the National not stocking up liber- Milk Producers' Federation, down to ally with equipment for the late fall the officer of your local, have been and early spring trade. The personal working to give you this profit and experience of many farmers who have your business a respectable standing

Then think again-now think hard, case, it is more than ever necessary how much you have done in the last namely, the organized movement. How sociation: what it has done for you; much have you put into this? I would what you should do for it," Prof. A. C. Farm implement manufacturers, in be ashamed to lay bare before the Anderson.

that Germany is not to be trusted, and cure equipment for next year's use ings of the Detroit Commission would resolutions, nominations. Election of that a lasting peace brought about by when it is needed. be, and when this finding was made officers.

N Washington right now there is a known the up-state price of the manucontinuous hearing going on with facturing plants was largely controlled the Food Administration upon the by it So your price is fixed largely by

The Detroit market is today the Our representatives at the seat of backbone of the Michigan milk margovernment, who have been struggling ket, and you are getting the benefit. for a price that will give the farmers Think this out and see what you owe

I know of one place today, outside zation of milk producers over the en- of Michigan, where there is no Milk Producers' Association, and where milk is under contract until January 1, 1919, for \$2.00 per hundred pounds.

A Call to Arms.

Now is the time for all loyal members to come to the aid of their Think why the broad-minded men of association. If you will be counted with those who are striving for a legitsult of our organized movement, you imate basis for your business, then be R EPORTS from a have received in the last year at least with us at the annual meeting at the number of manu- ten dollars increased income from State Capitol, Representative Hall, Lansing, October 22, at 11:00 a. m. Every local is entitled to four delegates. Be sure to have a good representation. We are proud to present the following program:

11:00 a. m., call to order.
Address, "Past, Present and Future
of the Milk Producers' Association,"
President N. P. Hull.

12:00 m., Dinner. for farmers to anticipate their equip-ment needs and place orders for same only line that can work out a profit:

1:00 p. m. sharp, report of auditors, report of treasurer, report of secretary.

1:30 p. m., "The Milk Producers' As-

"Michigan's Share and

Association.

CORPORATION FARMING

HERE are in Michigan numerous instances of large farming operations carried on from different motives; some to gratify the innate desire to subdue the earth and make it bring forth its products, others to apply some ideas of live stock growing, establish an American estate or be a country gentleman.

Near Alger, in Arenac county, there is an unique undertaking by a corporation of shareholders of moderate means to solve at least three problems; first, to be assured of their own food supply; second, a safe and profitable investment, and third, to participate in the world's great patriotic service.

The location of the farm was well chosen for there was a sufficient area under cultivation to allow the corporation to do a considerable job of farming at once, and still a large area to bring under cultivation, which will increase in value so that the farm can pay modest dividends and have a surplus in the increased valuation of the farm. To have purchased a farm in the older sections of the state this inbeen an asset. Under the old agricul- machinery. The present and prospec- directly to the stockholders and con- under the slave labor system, this was creasing increment would not have tural regime much of the gain of agri- tive range of farm prices would also sumers. The bean crop can be hand- well worked out. In Mexico, under culture came in that way so that the seem to be an assurance of productive led in the same way. It is a healthy peonage, it is also a feature. Ameriowner, when he retired, had an asset production. Much of agriculture in the economic sentiment that interests the can democracy can now apply the idea which did not seem real to him when years past has not been productive in actual consumer with the problems of clothed in separate form, where the operating his farm.

ital investment. By hand-labor indusinadequately equipped, where the la- and was put into the service late in would be available at a good profit. The work of building a farm is slow-bor is personal, with the crude ma- the spring. Splendid crops of oats The meetings of the neighborhood er than most persons realize, but evchinery it corresponds more nearly to and barley have been harvested, and people at this farm are events of imery day there is being added increased equipped farm with modern power and potatoes to Cleveland and distribute will benefit the whole agricultural sec- achieve success.

It Produces Food and Provides Safe Investment for Surplus Capital. By JAMES N. McBRIDE



A Field of Potatoes on Farm of Cleveland Community Company.

the sense of adequate pay and to food production. The future plans interest is to serve all, is getting a Can a large farm, managed as a cor- leave a margin for improvement and that may be worked out would include good start at the Community Farm poration does other business, be made continuance. It is the introduction of a midget mill in the elevator, where Company. to pay? This is a fair question to ask, the business type of farm corporation the grains could be milled into flour especially when many large farms have which will aid the individual farmers or breakfast food, a creamery where it would seem that development will failed non-resident owners. The an- in price matters. The large farm will dairy products could be made ready follow with success. The sheep indusswer would seem to be that with mod- raise the level to that of the higher for the city consumer, and the by-pro- try could be made a feature with sumern machinery agriculture has been plane of production, and the ability of ducts converted into finished pork pro- mer range on the cheaper lands away taken out of the hand-labor industries, the larger farm to determine price ducts. A canning plant is also under from the present holdings, and use the and can be made to conform to the grades and distribution will be most consideration for, in addition to the roughage on the farm for winter feedoperation of similar industries in cap- healthy to all engaged in agriculture. ordinary farm-grown crops for canning ing. Carl Robinson is the manager of the there is usually a large huckleberry tion the development of a large apiary, tries one means that the small farm, Cleveland Community Farm Company, crop to the north of this place which for bees do well in this section.

vestment and employment of a fully cultivation. It is planned to send the without membership or creed. What Farms Company deserves and will

tion is the general scope of discussion. There are light refreshments and the yard is filled with farmers of the country adjoining.

Heretofore the ability to get prompt threshing of the grain crop in that section has been a disheartening one. The Community Farms Company have brought in a small unit grain separator operated with tractor power. This outfit is easily transported, gets into action at once, and has a reasonable capacity. It was easy to thresh one bushel of barley per minute. The grain crop in this section of Arenac county is a fair average with other portions of the state. Fields of oats, barley, and spring wheat were being harvested that would yield very high. The Marquis variety of spring wheat seems most promising. There is a difference of opinion as to whether this has been an ideal season for spring wheat. There was little or no rust development, but rather too little moisture for best crop making.

In different sections the idea of a farm under central management is an engaging one. In the southern states

There are so many opportunities that

the shoe shining parlor or barber shop, the photograph of the large potato portance. It is broader than most ag-values and betterments, which are a when these are compared to the in- field speaks for its area and careful ricultural meetings for it is inclusive, part of the work. • The Community

Dust, Bacteria, Bad Odors and Flavors

ing steps for their elimination on every farm; and already much prevention work has been accomplished on the better class of dairy farms.

In every business where food is handled dust means direct lowering of quality, if not actual spoiling. Dustlessness pays. Cleanliness is next to profits. Dust inside a dairy barn or milk house often indicates faulty con-When the trouble is studied, and when the cause is corrected of sediment and bacteria in milk will be partially solved. The president of one of the big city milk companies recently said to the writer: "We place more stress upon the sealment than upon the bacteria count, because if milk is comparatively free of sediment the number of bacteria, as a rule, will not be excessive." In a broad way the ceiling of the side walls and overhead of the dairy stable and milk house with lath and plaster or matched material will lead to the production of cleaner milk. Bacteria are closely related to dust when it comes to producing sanitary milk, and the same care in stable and milk house construction produces as pleasant results. It is still impossible to produce a germless milk-a few dust particles and bacteria enter the milk in such mysterious ways that there will always be more

UST, bacteria, bad odors and fla- Handling the Milk and Methods of Feedtoday the dairy interests are ed stables care must be exercised in dealing with them as live issues, taking Determine the Healthiness and Flavor feeding, cleaning the stables, bedding

and practical.

bacteria are injurious to the health of they are confined in a stable, and ex-

or less trouble from such sources, but their cattle. Many preventative meascareful stable management has reduc- ures were introduced. In a little while ed the amount of dust and number of it was found that the cows produced bacteria to such an extent that the better milk, more of it and that the milk produced on many farms is a men were better-tempered through the pure and healthful food. As the dairy day and less tired at night. Dust and farmer understands that this sort of bacteria in the dairy barn often indithing pays the incentive to abolish cate something out of balance. When dust and bacteria becomes very direct the trouble is studied and the cause is corrected the cows will produce better A few dairy farmers have become milk, more of it, remain healthy and the problem of reducing the amount interested in the fact that dust and need less food than is the case when

Clean Barns Are Essential to the Production of Clean Milk,

posed to bacteria laden dust and dirt. Even in the most carefully constructed stables care must be exercised in

culation of the air in the stable and milk house. Hay and roughage should not be fed until after milking time and it is better to change the bedding material during the middle of the day so that the dust will settle before milking time. If milking machines are used care should be taken not to allow the teat cups to hang close to the floor where the suction will draw dust into them and deposit it in the milk.

Healthy cows secrete healthy milk. Bacteria get into the milk after it is drawn from the cow or in the process of milking. The cow is not the guilty party. Milk does not come from the cow entirely free from bacteria, because it is impossible to keep the teats of the cow sterile; however, we can keep them clean and reduce contamination from this source. The ducts of the teats and the body temperature of the cow afford ideal conditions for the bacteria to multiply and, the best we can do, the lower ducts of the teats will contain considerable numbers of bacteria. By using the first few jets of milk to wash out the ducts, the milk that goes into the pail will be practically free from bacteria. If proper care is taken at this stage of production, the few bacteria which get into the milk from this source are of but (Continued on page 340).



THE Hot-All-Over Top is a patented device, found only on the JOY ECLIPSE range, which forces the flames to pass under all six lids before escaping. You save time in preparing meals; save fuel by keeping the flames from being sucked out the chimney too soon, and can have a comfortable kitchen in summer.

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Write us for name of the Eclipse dealer near you. Ask him about our cast-iron range—wears a life-time; guar-anteed never to rust out; always looks well; gives per-

fect satisfaction. He will gladly show you the Eclipse Adjustable Damper, by which you can control the oven temperature.

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For Sale. New Moline Universal Tractor, model C. with plows and full equipment, will self right, cash or part stock, owner having to leave farm. E. P. JOHNSTON, R. Milan, Mich.

Growing and Marketing the Potato Crop--By C. B. FORD

ing must study the business states. phases of the undertaking, keep production charges low and find the best vest and market at a time when other certain general principles.

First grow good potatoes; second, large crops of early potatoes. grow an acreage sufficient to do all the interest other men in the business.

ments to distant markets.

cheaper in New York, Philadelphia and hastily seeded. and Baltimore than in Chicago and St. In some potato growing localities ten cents per bushel over the distant by rubbing against each other.

be obtained for the early crop than for cleaner and will keep better in storthe late crop. In the interior cities of age. This is not always possible, for the northern, eastern and central when the season is crowding along it states early potatoes bring remunera- is good policy to keep the work moving tive prices. The crop gets to market and give the potatoes an opportunity ahead of those from the irrigated dis- to dry off as much as possible before tricts and northern states. The grow- picking them up. Never allow them to ers along the Atlantic coast, because lie exposed to the sun long enough to of the almost prohibitive freight rates, become green, or the quality will be home-grown crop. This is a phase of

HE man who grows potatoes as potato growing that is worthy of spea complement to general farm-cial study among farmers in these

The early crop is usually fit to harmarkets for his crop. To make profits farm crops do not demand attention. he must produce cheaply and sell wise- Besides, the proceeds from a few hunly. The cost of production and meth- dred bushels of early potatoes are a ods of selling will depend upon vary- mighty welcome addition to the working conditions. There are, neverthe- ing capital of most farmers at this parless, a few fundamental rules which ticular time of the year. Another adapply roughly to all farms where the vantage of growing early potatoes is crop can be grown successfully. the fact that the crop is not so apt to Though the methods must be adapted blight as the late crop. Farmers who to the farm and local conditions one have a few acres of sandy or gravelly cannot go far wrong in adhering to land can put it to no more profitable use than getting it in condition to grow

The work of harvesting a large crop work with machinery; third, try and of potatoes should not be undertaken without a good mechanical digger. The Quality is an important factor in modern machine has a shovel point marketing the potato crop. If one can that runs under the row of potatoes grow ten acres each year it will justi- and lifts up and places them on an elefy the use of a good planter, sprayer vator, which separates the soil from and digger. In order to compete suc- the tubers and sifts them onto the cessfully with the commercial growers ground, the tubers and vines falling beall of the work must be done with ma- hind the machine on top of the loose chinery. When ten or twelve men are soil. These machines cost from \$100 interested in potato growing, econ- to \$130, and it requires three or four omies can be introduced in the pur- horses to keep them working at maxichase of seed, fertilizer, machinery, mum efficiency. Some manufacturers spraying materials and in making ship-claim their machines have very light draft, but the very nature of the work, Marketing economies are a big fac- especially if the ground is heavy, detor in determining the profits from po- mands plenty of horsepower. Four or tato growing. The usual low price of five acres a day can be harvested with potatoes per bushel and the bulk of a good machine and eight or ten pickthe crop makes it necessary to make ers. The use of the digger makes it up profitable shipments. Cheap trans- possible to prepare a good seed-bed for portation by water has made it possi- the wheat or rye crop without plowing ble for many distant localities to put the ground. In many cases where a potatoes on the large eastern markets digger has been used spring grains at a very low price. During the aver- give better yields than is the case on age season one can buy potatoes much ground that is plowed in the spring

Louis. Early potatoes from Bermuda, growers hire a gang of Italian or Pol-Florida and Virginia are shipped by ish women to pick up the potatoes afwater to many eastern cities. The ter the digger. These growers pay growers of Colorado and other irrigat- about two cents per bushel to their ed sections cannot put their potatoes hands and find it an easy way to rush on eastern markets at a profit; they the work and get their potatoes into must depend upon the markets within storage. As a rule all of the potatoes profitable shipping distance from their are picked up at the same time. If the localities. Hence, the area which will crop goes direct to market the sorting be grown in these localities must be is done on tables placed at convenient restricted for some years to come. The spots in the field. The bushel basket cost of transportation and distribution is the handiest thing for handling the of the potato crop is sufficient reason crop from the field to the sorting tawhy farmers within easy shipping dis- bles or storage house, but the bushel tance to large cities should grow pota- crate is better for hauling to the car toes. In many instances the local grow- or market. It is easy to load and uners have an advantage of more than load and the potatoes are not injured

It is always best to dig potatoes In many localities better prices may when the ground is dry; they come out cannot compete successfully with the ruined. Potatoes should be handled Continued on page 326.)



The Owner of this Cellar Can Market His Crop During The Winter.

The Apple with the Flavor

By H. S. FISHER

Washington or Oregon. The markets west. of the United States are turning to the East for fruit grown more slowly and naturally on heavier soils, without ir-

W HEN will the east come into its east over the west lies in the differown? Never in the history of ence in cost of transportation. The American fruit production has Hood River or Yakima Valley grower there been such an opportunity for is two thousand miles from the marthe eastern fruit grower—the man who kets he attempts to reach. It costs can produce the "Apple with the Fla- him sixty cents a box or \$1.80 per bbl. The people are tired of the high- of three boxes to get his fruit to the ly colored, but tasteless fruit from the Chicago market. Icing charges of sev-Pacific Northwest. They have begun enty-cents for three boxes must be adto discover that the eastern apple is ded to this. Stated in another way, so far superior as to remove it from the western orchardist must receive the ignominy of a comparison with the \$660 a carload in order to break even. coarse-grained, flavorless apple from These are the facts that confront the

Listen to the Opportunities of the East.

In Michigan, for instance, fine, gravrigation—the fruit that has texture and elly, and rolling lands—ideal for orchard planting-may be purchased at But why in the past have people so from \$25 to \$100 per acre. Irrigation



The Eastern Grower Must Pack Perfect Apples Uniformly and Honestly.

willing to pay the price for it, although by 300 to 500 per cent. he could get fruit of doubtful quality

der the hallucination that he could er of the east. "fool all the people all the time." He paid him the cost of production.

ed a standardized pack that has made clamoring. the eastern orchardist sit up and take notice, and has given a new aspect to the industry.

ble reaction from its earlier boom, and eases a sound basis for the fruit-growing industry there is still in the future.

But the greatest advantage of the must be one of perfect apples-all

eagerly bought the western apple? is unnecessary, the average annual Standardization is the answer. The rainfall being thirty-two inches. Thus, western apple has been scrupulously in the first cost of land the Michigan graded and honestly packed. The buy- grower can beat the Wenatchee orer knew what he was getting and was chardist by \$350 to \$600 per acre, or

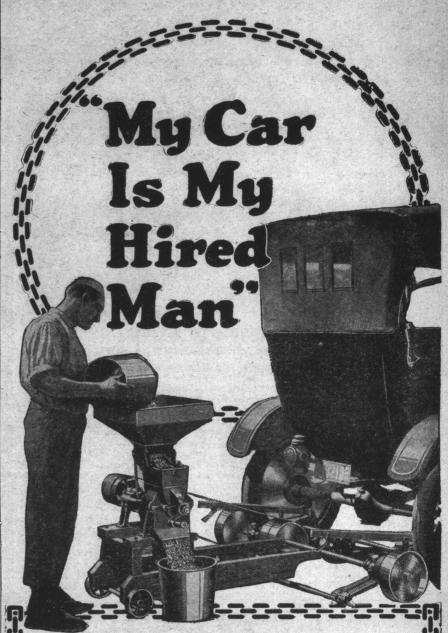
Freight to Chicago costs the Michifor much less in the east. Hood River gan man twenty-six to thirty cents per apples were accepted on the markets barrel, and icing is unnecessary beeverywhere without inspection, be- cause of the nearness to market. Here cause the buyer does not take the again, the difference of \$1.50 per bargambler's chance he must assume rel is in his favor. He can sell a carwhenever he buys an unlabeled bar- load of apples for \$300 and break even. rel of Spys or Baldwins from Michigan This difference in transportation costs of \$360 a carload represents in itself The eastern grower has labored un- a substantial profit for the apple grow-

This is not a situation peculiar only has grown his apples unscientifically, to Michigan, however. There are as harvested them carelessly, and pack- good or better opportunities throughed wormy and under-sized fruit in his out Ohio, Indiana, Illinois, Pennsylbarrel, finishing off with the deceitful vania. New York, and New England. choice layer beneath the barrel top. Probably seventy per cent of the na-He has chuckled at his cunning—and tion' population reside in these states. accepted a price which has hardly The eastern grower's market lies right at his door, and opportunity is knock-The western grower, on the other ing at it. The advantages of the east hand, realized at once the handicap of as a region in which to grow apples isolation and distance from markets are overwhelming. It is the natural that he must overcome. Under the place to produce the "fruit with the spur of necessity, then, he has develop- flavor," for which the public now is

How to Meet the Situation.

First, he must grow his apples more scientifically. He must prune and But they of the west are playing a spray more thoroughly, and learn the losing game. They have barely made practice of thinning to secure fruit of expenses during the past five years. greater size. He must get away from In the Wenatchee Valley, for instance, the idea that he can give his atteneighty per cent of the orchard property tion to other crops of the farm and is mortgaged at interest rates of from let the apples take care of themselves, eight to twelve. Their overhead ex- with perhaps a half-hearted attempt or penses are too high. Land was pur- two at spraying. Apple growing of chased at inflated "boom" prices, often the future must be a specialized busiin excess of \$1,000 per acre for newly ness given highly specialized and scienplanted orchards. Raw land was sold tific attention. Nature has done her for \$250 to \$300 an acre. Irrigation best by producing in the east an apple systems had to be installed at a cost of superior flavor and finer texture. It of \$125 to \$200 additional, making a is up to the grower, then, to see that total first cost of \$375 to \$700 per acre, they are sizeable and free from blem-The west is now suffering the inevita- ishes of controllable insects and dis-

And finally, the eastern grower must pack uniformly and honestly. His pack



Takes the Place of the Men Who Are Gone

OU are already short of man-power. The help problem Y is getting worse, not better. Make use of the Mechanical Farm Hand—buy an inexpensive LAY Porta Power (an implement for utilizing the power of your automobile to obtain belt power for running your farm implements) and you have power wherever you want and need it. You can take it all over your farm-to the woodlot, the barn, the wagon-shed, in the fields; with it you, your sons, wife and daughters can greatly increase your farm's efficiency. It delivers at least 8 H. P. from any automobile, to any mill, sheller, press, elevator, saw, pump, milker, separator, cutter on your farm.

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Power, is a rapid worker, and is guaranteed. It is the simplest, best constructed mill ever

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Besides being the strongest and most comfortable cow tie made, the Louden Swinging Stanchion is the only one which permits the use of

The Louden High Built-Up Feed-Saving Curb

without inconvenience to the cow. It precents cows from nesting feed out of the mangers onto the stall floor—saves many a dollar s worth of high priced feed in the course of a year which would otherwise be wasted with the ordinary low level curb. Now, when every ounce of feed is needed, the Louden High Built-Up Feed-Saving Curb is a real necessity.

With Louden Stalls and Stanchions and other Barn Equipment you can actually save one-half your barn work every day in the year—for years to come You can install Louden Stalls and Stanchions yourself in your present barn, just as it stands, noderate cost, and will find it a paying investment even if you have but a few cows.

Large Louden Catalog Shows You How to Save Labor Its 224 pages with many fine illustrations show the full Louden Line of Labor-Saving Barn Equipment: Stalls and Stanchions, Litter and Feed Carriers, Animal Pens, Hay Unloading Tools, Power Hoists, Barn and Garage Door Hangers, Sanitary Water Bowls, Cupolas, Ventilators—"Everything for the Barn." Sent postpaid, no charge.

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Lowdown, light draft. Loads and pulls without undue strain on man or team. Has solid bottom with chain conveyors. Pulverizes

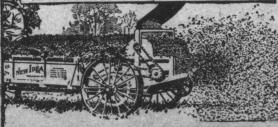
man or team. Has solid bottom with chain conveyors. Fullerizes thoroughly and spreads evenly. 5 to 7 ft. wide. Spreads from 3 to 15 loads per acre, at your option, by merely shifting a lever.

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Drives with heavy sprocket chain—no gears.

See the "New Idea" at your dealer's. Don't wait for him to see you as he is probably short of help. Insist on the "New Idea," and don't buy regrets by taking some other machine. If you don't know who sells the "New Idea," write as and we will give you his name. write us and we will give you his name. Get our Book—"Helping Mother Nature," which gives much new information J. H. McCLUER about manure and soil fertility.

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Apples with the Flavor."

That this can all be done has been the "Golden West." progressive orchardists who are aver- markets of the country.

through; and it must be graded to aging much better than this. One orstandard sizes. It must be labeled for chard, for example, belonging to Mr. what it is. Having produced such a J. A. Stokes, near Sandusky, Ohio, and pack, the grower will no longer hesi-reported in Ohio Circular No. 112, has tate to stamp his name and orchard averaged an annual net profit, after detrade-mark upon the package; and to ducting all growing and marketing add to its attractiveness by wrapping costs, of \$400 to \$500 an acre. In westand using catchy labels that give the ern Michigan, Oregon methods have consumer a "hankerin'" that must be been applied, and boxed apples have satisfied with a box or barrel of "The been sold on the Detroit market at prices higher than those of apples from

most forcibly demonstrated by ener- The opportunity is in the East! Now! getic growers throughout the apple- And when once the eastern grower growing regions of the east. Two hun- sets out in earnest to grow "The Apdred to three hundred dollars an acre ple with the Flavor," the west will be net profit has been of common occur-hopelessly outstripped, and the east rence, while there are hundreds of will come into its own in the apple

Growing and Marketing Potatoes

(Continued from page 324).

the weather becomes quite cool.

prices. Experienced potato growers waste and labor. figure that eighty cents per bushel at A leading dealer recently said: "The harvest time is as good as a dollar market is never so dull that good potaand ten cents from the cellar or stor- toes cannot be sold at fair prices. Last

cellar to store fruit and vegetables and quality stock at equally as satisfactory the northern states the storage house ing freight on some of the stuff they them cool.

ready for his next crop.

The farmer who has good storage ciations." facilities and plenty of time to look several thousand bushels every year to to good advantage. He can sell his hotels, restaurants and grocery stores

carefully to prevent breaking the skins and deliver them at any time when and bruising. Unless the days are cool wanted. Hotel and restaurant owners it will pay to let the potatoes stand are becoming critical in their demands one or two days in a cool place before for quality and uniformity of type in putting them in the cellar or storage potatoes for serving in their dininghouse. If they are put in the cellar rooms. By grading the potatoes to the windows should be left open until meet their demands many progressive growers are finding it possible to sell If an early frost checks the growth the potatoes at advanced prices. The of the crop early in the fall it will be hotel and restaurant trade calls for best to sell the potatoes as quickly as white potatoes, of medium size-from possible. The tubers will begin to six to ten ounces-and oblong, round, shrink in weight if put into storage of uniform appearance, shallow eyes, for any length of time. Taken one year dry and floury when ready to serve, with another the grower will come out and with a flavor that pleases an epidollars ahead if he can sell his crop cure. Such potatoes look better on the for eighty cents a bushel from the field table; medium size prevents waste; at digging time. It saves labor and and oblong round bakes better, and risk in holding the crop for higher smooth, shallow-eyed potatoes save

age house during January or February. week a Minnesota grower consigned The potato grower should have plen- four cars of the choicest stock that we ty of storage room. For the farmer have received this year. In just two engaged in potato growing as a side hours after inspecting the cars, by the line, or money crop, the large house use of the telephone, we had disposed cellar is, perhaps, the most economical of the four cars at six cents above the and efficient kind of storage. Many market for choice potatoes. We could will protest against using the house have sold ten more cars of the same point out doleful stories of disease prices. And this was at a time when epidemics caused by decaying fruit and the market was liberally stocked, and vegetables, but it is not to be expected the buyers holding back on account of that the progressive potáto grower is the crop rotting in storage. If you going to allow his crop to rot in the could see some of the stuff that comes cellar and the fumes to come up into the market you would wonder why through the floors in the house. In intelligent men would persist in payshould be a cellar of some kind. The ship. This cull stuff pulls down the tubers should be placed in bins six grade of the whole carload or shipfeet wide and as long as necessary, ment, besides the cost of shipping the and the tubers piled from five to six waste is charged against the grower. feet deep in them. Care must be taken It is absurd to think that an otherto see that the fubers are dry when wise intelligent man would mix variethey are put into storage, also to keep ties, disregard color and perfection in size and shape and ship such low grade As a general proposition it pays to stuff to distant markets where the get the crop out of the cellar during freight charges amount to almost one-January and February. From harvest- half of the prices for the potatoes. Yet ing time to about the middle of Feb. this is the very thing that many growruary potatoes may be kept at a rela- ers are doing and these are the ones tively small shrinkage if they have who are doing the most writing and been stored in proper condition. After talking about dishonest commission this time they shrink rapidly and pric- men and dealers. Fortunately, there es must be advancing to make it pay are growers who are showing the way to take chances playing the market to better methods and higher prices. game. As soon as the sprouts grow They plant just the type of potato the the loss of weight increases rapidly, market prefers, and sort and ship the so that the man who waits for the better grades. Moreover these careful usual advance in the spring market is men are getting busy and trying to imbusy sprouting his last year's crop prove conditions in general. It is a and hauling it to market at the time pleasure to do business with such prowhen the prudent grower is getting gressive growers, either individually or through one of their shipping asso-

One must watch the market and after the marketing end of the busi- keep track of the crop yield and moveness during the winter can frequently ment through the different trade jourmake good profits supplying customers nals. He must also make due allowin nearby cities and villages. By sell- ance for local conditions. If prices ing direct to the family trade and put- begin to reach a certain level in his ting up good potatoes one can frequent- district it may be a good time to sell ly get from ten to twenty cents per before growers in other localities bebushel above the market prices. Many gin to ship in stock. The man who has commercial growers who live nearby a farm in a section where potatoes are the markets operate trucks and sell imported can play the market game

(Continued on page 343.)

Marketing Grain Without Gambling on Prices

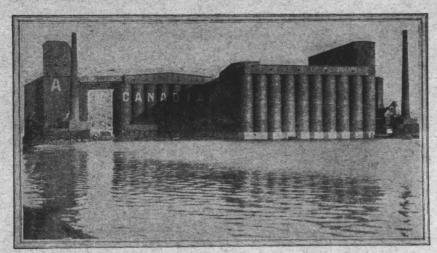
(Continued from first page).

ating another day.

plan to pay what they termed a "pat-other.
ronage dividend." What they meant A powerful reserve fund was built objected, advising that it was against providing coal, lumber, and other sup-

more money to save an organization The growers appreciate that the life that gave every evidence of not oper- of the great grain industry depends entirely upon cooperative effort and they And the Winnipeg Grain Exchange, have never cashed their checks for controlled by grain dealers, did not their first dividend, but have them do much to make the grain growers framed and hung in their parlors, and joyous. It was strictly opposed to proudly point to them to all visitors, farmers' organizations. A month after as a monument to the faith of a band the Grain Growers' Exchange started, of farmers, who built a great and profa circular was issued, declaring their itable industry upon their faith in each

was that they would pay a fair rate up, which gives the farmers' cooperaof dividend to shareholders, and dis-tive company added power throughout tribute surplus profits to growers in the nation. The money taken from proportion to the amount of grain the earnings has enabled the company shipped by the grower. The Exchange to enter into various activities, such as



The Largest Elevator in the World, Port Arthur, Ontario.

on their commission for their life.

The grain growers knew that they on holding together. were face to face with a crisis. The ager sought an eastern market, buyers bers in April, 1907.

ure to pay dividends as intended. If than a copper cent. it had carried out its original plan, cent dividend; cond year per cent, and so on. While the orig- prosperity unmolested. belt, save as it increased profits. in force.

their rules, and took the seat in the plies; buying fruit for members as well house away from the farmers. This as operating grain elevators. In these would have left the company without activities the farmers were able to revenue, and would seem to bring succeed, whereas other interests failabout early ruin, as they depended up- ed. The members appreciated that the success of their business depended up-

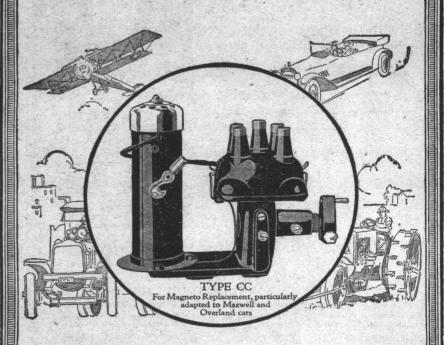
Before many months the Winnipeg Exchange was the only market for Grain Exchange became alarmed at its grain, and while the cooperative man-lessened business and at the increased surplus of the Grain Growers' Explainly advised him that he must be- change, every dollar of which reprelong to the Winnipeg Exchange before sented the cash that the dealers had he could be recognized. Did any farm- pocketed at the expense of the grain ers ever face more direct influence of grower. In 1909 the Winnipeg dealers powerful influences against him enjoy- suspended operations on the commising just privileges? The grain grow- sion basis. The cooperative organizaers' manager returned, called his aides tion transacts its business as a regular together, and an appeal was made di- commission merchant for its members, rect to the Manitoba Provincial Gov- except that all profits are returned to ernment, asking it to compel the Grain the farmers. It charges one cent per Exchange to reinstate the company's bushel on consigned wheat. The plan member. The influence of thousands of the Grain Exchange was to put this of prosperous grain growers was suffinew company out of business. Therecient. The legislature took the farm- fore, the Exchange offered to handle ers side and threatened to revoke the wheat at one-half a cent a bushel, calcharter of the Exchange if it refused culating that the farmers would fall to recognize the farmers. Promising over each other in chasing a half-cent to abandon the "patronage dividend instead of sticking together. But these plan," the growers again became mem- men were the regular kind. They were pioneer settlers, who had faced A blessing in disguise was the fail- rascals, and could see a little further

When approached with the offer to the Grain Growers' Company would no sell out their organization, the farmdoubt have paid out all of its profits ers promptly refused. They told the as dividends without building up a agents if they could do business at much needed reserve fund. At first such a rate now, they must have been the profits were generously divided. robbing them deliberately in former The first year there was a seven per years, when they charged more. The dealers became discouraged, and dis per cent, and the third year thirty banded, leaving the growers to enjoy

inal subscribers to the company paid The Grain Growers' Company startin cash only \$7.50 for shares, these ed in 1906 with \$25,000 subscribed, and are today valued at about \$30 each. At \$5,000 paid capital. In 1909 the capital the end of the third season, dividends subscribed was \$188,950, while in 1911 paid were equal to the original amount it was \$615,000, and at the opening of paid for shares. Without cooperative the war this had grown to \$1,060,925, effort all these dividends would have of which \$771.409 had been paid in. gone with an increased amount into Dividends and earned commission the hands of-the middlemen and the totaled nearly a quarter of a million growers would have been under the dollars for the same year, all of which thumb of men who did not care about would have gone into the till of the the future production of the wheat middlemen without cooperative effort

ATWATER

SCIENTIFIC IGNITION

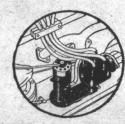


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Its big, hot, perfectly synchronized spark at all motor speeds assures better motor performance wherever used.

It facilitates starting, saves gas, increases motor power and is so unfailing in performance and simple in construction as to rarely need attention.

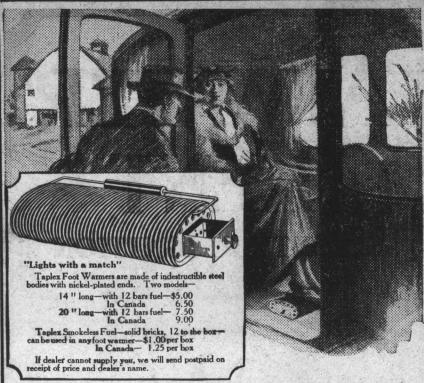
Note the position of the Atwater Kent System on your motor—the identical spot formerly occupied by your magneto. Easy and inexpensive to install, fits your



This system will replace any magneto on any car and give better service-for cars electrically equipped or not. Quickly and economically installed. Send for booklet.

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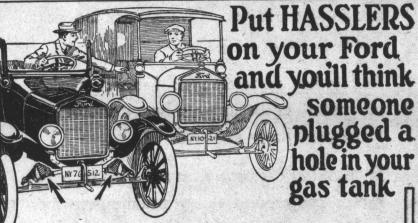
TAPLEX FOOT WARMER

"Needs but a match"

It's the only foot warmer you can put in operation at any time and anywhere simply by applying a match.

You'll find dozens of other uses, too, for the Taplex Foot Warmer and also for the other Taplex Warmers: Body Warmer, Bed Warmer and Handy Warmer. All of them are put in operation instantly merely by applying a match. Give out generous heat for 6 to 8 hours—no flame—safe, efficient, economical. All Taplex Warmers guaranteed satisfactory or money refunded. Sold by leading general, drug, hardware, department and automobile accessory stores. Write for descriptive folder—sent

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increase the flock as one gains experi- country. ence in handling sheep. First of all, stamp and quality, roomy, low down, chosen. He is more than half of the meat-making form.

ue of the animals.

otherwise. Ewes that have the abil- is entirely forgotten. ity to transmit physical force and energy to their young are the kind ev- himself with the conditions surround-

the birthplace of the majority of our road to ultimate failure. hest breeds of mutton sheep, and it of our animals.

a cooperative basis. Agricultural socie- duces its portion of mutton and wool.

N starting a flock of mutton sheep ties, adverse public opinion and uniit is always better to get a few versal disapproval have discouraged good ewes and a pure-bred ram and the use of the scrub ram in that

In the selection of a suitable ram it see that the ewes are of the right is important that he shall be carefully with good bone, clean skins and good flock that has the power of depreciatfleeces. Select a ram that possesses ing as well as improving the quality of the true meat-making form, with short his lambs. He should possess marked legs, good fleece, large neck, neat, evidences of the qualities to be imtrim ear and a broad nose. Such a proved in the flock. No matter what type of ram will mate well with rath- particular line of breeding one may er coarse ewes and produce medium pursue, well developed shoulders indithick-set, blocky lambs, which are the cating strong constitution, should be a sort that make good feeders. The se- strong characteristic in the ram. His lection of the breed is a question of ability to transmit vigor and early maless importance than the selection of turity is the most important quality to individuals that possess the desired be considered. Make a close scrutiny of your ewes, noting their strong and In selecting breeding ewes to pro- weak points, more particularly the mote early maturity and quality in the weak ones, and resolve in your mind's mutton flock, uniformity of type is of eye the type of ram needed to bring first importance. Care must be taken about the desired improvements. Thus to weed out inferior ewes and retain equipped with an idea of what you only those that are of one type. Al- want, make a visit to some of the best ways save a few yearling ewes of your flocks of the breed you believe best own breeding even if they are not as adapted to your needs, and keep a gogood as you can buy elsewhere. It is ing until you find what you want. making the flock uniform and more of Above all, do not get stuck on some one type than buying odd ones from finely conditioned ram lamb that is other flocks. If pure-bred sheep are not just what you want, and make a kept it is a good deal easier to select compromise. Look further, perseveruniform breeding ewes than where ance will bring its reward. You will cross-breeding is practiced. In connec- not only be able to see the rams, but tion with selecting uniform ewes one the stock from which they are bred; should aim to establish a type that thus you will have some assurance conforms to the purpose for which that your purchase will produce aniwhich they are kept. If to produce mals like those in the flock where he fine mutton, select the meat-making was bred. Do not be afraid to invest type. Ewes of the blocky type mature a few extra dollars when it is a quesearly and make the best mutton. Suc- tion of deciding between rams of incessful breeding has as its object the ferior and average quality and those gradual fixation of type and character- of superior individuality and breeding. istics that add commercially to the val- The best is always the cheapest, and the pride and satisfaction of a fine Every ewe that shows signs of a crop of uniform lambs at weaning time faulty constitution should be disposed remains long after the few dollars exof, no matter how good she may be tra money paid in the cost of the ram

The successful flock owner acquaints eryone wants. A faulty constitution is ing his flock and steadily improves his generally indicated by a loose, thin methods of handling his sheep and fleece, narrow chest and dull, lifeless lambs. The farmer who invests in actions. Examine these points care- breeding stock is looking for the profit fully and if the animal fails to meet he can secure from the industry, but these requirements dispose of her. he should never be so "penny-wise and Ewes that are in any way diseased, pound-foolish" as to overlook the imno matter how good a fleece and lamb portance of keeping as good a breedthey may produce, should be immedi- ing flock as the best line of breeding ately disposed of. There is always and kind of feeding can produce. Many plenty of trouble with disease without failures in sheep breeding are due to inviting more through careless selec- the fact that good judgment is not exercised in retaining the best animals Though many American flock own- for breeding purposes. The success of ers have achieved success in the pro- every famous breeder of mutton sheep duction of a few specimens of nearly has been due to his skill and wella perfect type of mutton sheep, yet the trained judgment in selecting sires and average farm flock reflects little credit dams that possess the proper qualificaon our skill as shepherds. One does tions. The demand in this country tonot need to spend much time investi- day is for fancy mutton and breeders gating the history and development of and feeders who fail to take advantage the leading breeds of mutton sheep be- of this demand for quality mutton and fore he finds that England has been better breeding stock are well on the

Complete also leads the world in the work of de- flock of mutton sheep, either for breedvelopment. A study of the English ing stock or mutton for market, will flock owners' methods would essential- come only when the most painstaking ly aid us in developing our farm flocks care is exercised in tooking after the and add much to the value and welfare welfare of the flock. Shiftlessness, irregularity and neglect will ruin any The first fundamental recognized by flock. While different breeds possess the English flock owner is the absolute slightly different qualifications the value of the pure-bred ram. The value same general methods of breeding, of high-class rams has long ceased to feeding and flock handling must be be questioned with him, and even the practiced to attain the desired results. smallest tenant farmer, who is not Rigid culling of inferior animals must able to buy pure-bred rams, arranges be practiced and a standard fixed for their services, either by loan or on whereby every sheep in the flock pro-

Financing the National Board of Agriculture

FRIEND asked me how the expenses of this proposed organization would be met. Of course, nothing is settled definitely, but it seems to be that the county farm bureaus would be the logical body to finance the organization. The farm bureaus represent the farmers of the county. It is the farmers of the county that are to be represented and benefited. The representative selected by the farm bureau should have some compensation if he leaves his business and participates in the state and national chambers of agriculture, also his actual expenses. This would only be a few days at most and the farm bureau could easily finance this proposition. Then all the farm bureaus of the state, or in other words, the state Chamber of Agriculture, would elect a representative to the National Chamber of Agriculture and the state chamber would finance this member.

Later on it would be necessary to maintain a regular office and office force, both for each state and the nation. This would have to be maintained by the organization but the expense need not be heavy. These expenses would be small compared with the good that would come if the organization prevented any crop from being sold below the cost of production. In Michigan there are over two hundred thousand farmers. If expenses could be distributed among all the farmers, the expenses for each would be only a few cents. At first, of course, the expenses wouldn't be evenly distributed. The more enterprising farmers who now belong to the farm bureaus would pay not only their share but that of somebody else as well. But supposing they did, the money they would expend, if it works out would be nothing in comparison to the benefits they would recieve. If the bureau in any particular county hasn't many members, it would be the duty of those present members to get others interested.

A farmer in the northern part of the state said, "I believe that you have got a good idea there. The only question is about working it out. Won't it fail, the same as all other farmers' organizations fail, by having someone squander the money, get it complicated financially and wind up in failure?" Of course, we farmers are suspicious because we have seen many cooperative associations end up in some such way as this-poor management of business that represented large amounts of money have failed many times. Nobody proved dishonest, but simply poor management coming in contact with new problems.

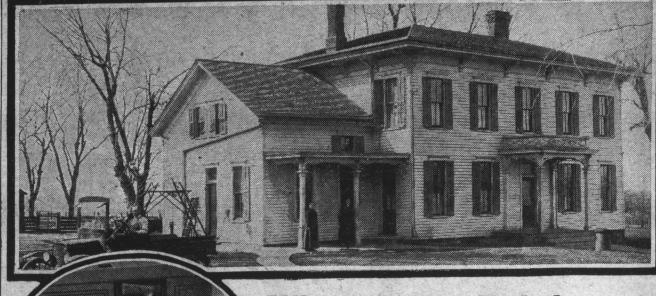
LIVENS ROOM

REGISTER

DINING ROOM

KITCHEN

This is a different proposition. We are not going to handle money. There will be nothing to sell. All the expense necessary will be to pay the expenses of the organization. This state and national body simply ascertains the cost of production of the farm crops: that is all. The organization won't sell anything; it simply makes a public statement that takes into consideration the whole United States. It costs so much to produce a certain crop; if the farmer gets anything out of it farming must be put on a business basis; in other words, to stabilize agriculture this product must be sold at a certain amount. Now, it is believed that farmers will insist upon that price before it is sold. If they do they are directly benefited by it. Let the selling be done through the ordinary channels. We haven't got to worry about that at all, but we must have this organization conducted by the farmers themselves COLON C. LILLIE.



Where Others Failed the Caloric Succeeds

The big farm home shown above is owned by Mrs. Annie M. Strawn of Lincoln, Ill. Last year she installed a Caloric Furnace. Previous to that she had used a hot water system, following it with a pipe system. Let her tell you about the advantages of the Caloric Pipeless What I Think Furnace over all others:

"I am writing you in regard to what I think of the Caloric Pipeless Furnace.

"When I first heard of heating an entire house from one register I did not believe it possible. My house has thirteen rooms and it had been difficult to heat with a pipe furnace.

"Expense of Heating Much Less"

"I am more than satisfied, for all thirteen rooms have been comfortable this winter, which was unusually severe, and we had no trouble at all keeping warm. The Caloric has proved far more satisfactory than any other heating I have ever used.

"It has been very economical, too. We used only twelve tons of a lower grade of Illinois soft coal than used in our kitchen range, and glad to say the expense of heating was much less than heretofore.

"I heartily commend the Caloric for economy, efficiency and cleanliness."

Thousands of others have spoken equally well of this remarkable furnace, which has over fifty thousand users in the country, from Maine to California. The comfort they enjoy may be yours in the house you now live in, at low cost.

See the Caloric dealer, or write to us for our beautiful free catalog, which describes the principles of Caloric heating, and tells why this furnace furnishes the maximum of heat at the lowest cost. With it we will send the names of users in your vicinity, so you can see for yourself.

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KEYSTONE DEHORNER All over in 2 minutes. Not a harsh method clear, clean cut. Cowe give more milk; stemake better beef Send for free booklet M.T. Phillips, Box 126 Pomeroy, Pa



50 good Belgian Hares, and other large Ra bits, also some fox and Rabbit hound enclose stamp. W. E. Lecky, Holmesville,

Agricultural News LARGER MILK DEMAND FOLLOWS PROHIBITION.

NCREASED demand for milk following curtailment of brewing in the United States is a probable development in the nation's food situation during the coming year. In a recent conference with Food Administration officials at Washington, R. C. Reed, Secretary of the Michigan Milk Producers' Association, presented facts of unusual interest to all dairymen. Since last May when Detroit became dry, consumption of milk, according to Mr. Reed, increased twenty per cent and of buttermilk about fifty per cent. To satisfy this sudden demand, it became necessary to bring in milk from greater distances and to a considerable extent utilize the supply formerly made

Not only has consumption of milk increased in private homes but many saloons have been converted into lunch rooms and ice cream parlors. establishments have become new outlets for milk and its numerous products. The large increase in buttermilk consumption is explained by its mild acidity, which seems to allay the alcoholic craving.

While the Detroit percentages should not be considered an exact index to future conditions in other cities, they emphasize the present importance of dairy products in the world food program. Curtailment in the supply of alcoholic beverages and similar drinks may be expected to stimulate demand for milk to a very material degree.

END THE MEAT TRUST.

S ENATOR BORAH, of Idaho, who has been selected to push proposed legislation to take over parts of the packing industry, and Herbert C. Hoover, Food Administrator, have been holding conferences with a view of bringing the Federal Trade Commission, the Food Administration and Congress into an agreement as to the best method to pursue to control the meat industry of the country.

Hoover is said to admit the advisability of the government's taking over the stockyards and the rolling stock controlled by the five big packing concerns, but he is hanging back on taking over the branch houses of the big packers in various cities throughout the country for fear such action might interfere with the plan of food distribution necessary to the conduct of the war.

Senator Borah is strongly of the opinion that the packers must be divorced from nearly all of the one hundred and eight industries in which they are interested outside of meat packing. To break up their alleged monopoly, he contends, it will be necessary to enact legislation to confine

them to the business for which they were primarily organized.

A strong fight is expected in congress on the proposition of permanent government ownership of the stockyards as a public utility.

MUST POST PRICES.

EVERY retail grocer and vegetable grocer and vegetable dealer in California will be ordered to post in a conspicuous place in his establishment a placard list of a dozen or more leading staples and vegetables with the prices he paid and the prices he is charging the consumer.

Ralph P. Merritt, Federal Food Administrator for California, in announcing this order Tuesday, which is effective September 26, said it was a measure to protect the public against profiteering.

The man who calls improved live stock "fancy stock," will have an account to settle with his Maker, on the judgment day.



THAT is what thousands of delighted home owners all over the United States are telling their neighbors and friends. In the coldest weather the Mueller Pipeless Furnace is successfully heating their homes, saving one-third and more in fuel, giving them all the comfort and convenience of furnace heat at minimum cost.

If you are a dweller in a stove heated home, you cannot afford to ignore the great advantages of this remarkably efficient and economical heating system. Your entire house heated through one register—no pipes or flues to tear up your floors or walls or heat your cellar. Constant circulation of fresh, warm, moist air throughout every room-better health and better living conditions for your family.

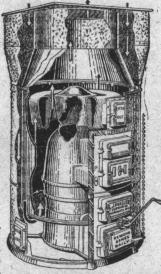
The Mueller Pipeless Furnace is a mar-velously efficient utilization of the well known law that warm air rises and cool air falls. In its design and construction this law has been scientifically and correctly applied for heating the entire house through one register. The Mueller Pipeless is the result of over sixty years' experience in furnace building—the work of expert heating engineers—and is sold under a binding guarantee to heat the entire house to a comfortable temperature.

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The Mueller Pipeless heats the entire house with a remarkably small amount of fuel. It burns hard or soft coal, coke or wood, is simple to operate, dependable under all weather conditions, and completely removes all fire danger.

Do not consider the purchase of any other heating system until you have thoroughly investigated the Mueller Pipeless. Its strikingly superior features of design and construction will quickly convince you that it is the only pipeless system you will wish to install in your home—that it is reliable, economical and built to last a lifetime.

Write at once for free book "Heating Your Home." You want this book because it gives you valuable information about heating and a complete and detailed description of the Mueller Pipeless. We will send it free at your request and give you the name of the nearest Mueller dealer.



MICHIGAN HARDWARE CO.

GRAND RAPIDS, MICH.

Distributors for Michigan





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270 Acre Farm and
\$500 pair horses, driving mare, Holstein bull, 3 calves, harness, wagons, mowing machine, tedder, ensilage cutter, harrows, plows, all crops, furniture, all ready to go on making money. Dairy alone paying \$170 monthly, 2 miles to 2 towns. Smooth, machine-worked dark lonn fields, meadows cutting 70 tons hay, wire-fenced, spring-watered pasture for 40 head, estimated more than 1000 cords wood, 40,000 feet timber, variety fruit. 7-room house, 3 stock barns, granary, other buildings. To settle, everything goes for \$6500, \$3000 down; 2 nearest farms valued \$12,000, \$15,000. Details page 17 Strout's Fall Farm Catalogue of this other bargains, east, west, north and south, many with stock, tools, crops; copy free.

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CHOICE Florida Lots and farm locations as famous automobile manufacturer, 15 miles west of Tampa, on Tampa Bay, Dirie Highway, Seaboard Railway. Delightful clmate, tropical scenery, low prices, easy terms. Free booklet.

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Beautiful modern home, steam heat, 8 lots, expensive shrushbery, fruit and shade, block from CENTRAL MICHIGAN NORMAL COLLEGE will sell or trade for small farm, or stock genera merchandise. Cooper, Goyor & Francis, Mt. Pleasant, Mich

For Sale Rainy Lake settlement-land, better. \$10 to \$15 per acre, easy terms.

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Wanted To hear from owner of farm or unim-proved land for sale.

Baldwin, Wisconsin

A Visit to an Afghan Bek

By DR. ERNST A. BESSEY



The Sellers of Bread Walk Around.

was sent by the United States De- cupied. partment of Agriculture, as an agthat some strains of Turkestan alfalfa ed at the top.

stop being at the new Russian city there. As the bricks of which these called New Bokhara. One of the two vaults are made are only sun-dried or hotels there was full and at first I where burned, only of very poor qualcould not obtain accommodations at ity, and as after the interment the relthe other hotel for myself and Mr. atives have a superstitious fear of the Nylo, my interpreter. At length, after grave, it is not to be wondered at that much persuasion on Mr. Nylo's part, these burial vaults soon become dilapithey fixed up a cot in the billiard room dated, so that the cemetery contained and put bedding on one of the billiard them in all stages from newly made tables. I occupied the latter. There to those entirely collapsed. The only was no lock nor even efficient latch on exceptions were the much larger vaults the door, so we barricaded it with fur- where were interred the remains of niture. As it was August and very hot reputed holy men. These are often we had to leave the windows wide op- surrounded by mud walls and invarien and so were rudely disturbed long ably have long poles bearing rags atafter midnight by a drunken army offi- tached, to keep away evil spirits. They cer who tried to climb through a win- are often shrines to which the ignor-'N the summer of 1902 the writer dow, thinking the room to be unoc- ant natives come.

nearer to the city than ten miles, the inscriptions to show who is buried

The next day we took the short thirty feet or more in height and is for riding purposes and the streets are ricultural explorer to Russian Central stub-line train ten miles (forty-five battlemented at the top. It seems to so narrow that most of them are im-Asia, or as it is generally known, Rus-minutes) to Old Bokhara. All the way be made, like most of the houses in passable for vehicles of any kind. sian Turkestan. An agricultural ex- we passed between fields, chiefly of Turkestan, of sun-dried mud bricks, al- Aside from the two or three carriages plorer is a person sent to a foreign alfalfa, gardens and orchards, for this though the facing is apparently a poor attendant upon the railway station the country to study the agricultural con- region is well watered by the Zeraf- quality of burned brick. The gateway only other vehicles were the native ditions there and to bring or send back shan River which takes its rise in the is broad and high and remains open arbas with their two enormous wheels seeds and plants that seem to have mountainous part of Bokhara. The all day, the big wooden gates being and rounded, decorated hood. promise of being of value somewhere fields were not separated by rail or closed at sunset. The road leading up Within the walls the narrow streets in the United States. My special mis- barb wire fences but by walls of mud to this gate was a very interesting with the almost windowless houses sion was to obtain seed of alfalfa from a foot or more thick and four to ten sight. Here was a short caravan of were strange to one used to the wide various parts of Turkestan, a previous feet high, often very ornamentally eight or ten heavily laden camels streets and bewindowed houses of Amexplorer having obtained indications marked on the surface and battlement- starting off for the southern part of erica. The dreary monotony of the the Khanate or even for Afghanistan, narrow streets bounded by their mud was of promise. In addition to alfalfa The railway station at Old Bokhara over the mountains to the south; there walls is broken at frequent intervals I was to obtain cereals of merit, also lies about a quarter of a mile outside came a donkey so piled with bundles by paved squares, usually adjacent to any promising fruits, such as grapes, of the city walls. The broad road of freshly cut alfalfa that all that was mosques and often beside large pools leading to the city gate passes a large visible was his head and his feet, and, of filthy looking and evil smelling wa-I reached the Khanate of Bokhara cemetery which, as is too often the on top of the load, a big man who had ter. Into this water the refuse from late in August on the Central Asiatic case in the Orient, was in a sad state to hold up his feet to keep them from the squares is swept and the drain-Railway from Oskhabad. I planned to of neglect. Burial is not, as with us, dragging on the ground. Most of the age from the streets flows, and from stop at the city of Bokhara for several in a grave but on the surface of the people were walking, the better class this the people drink. Is it any wondays but found, as seems to be fre- ground in a little brick vault just large clad in silk and wearing turbans, the der that when cholera reaches Bokquently the case with Russian rail- enough to receive the body. No grave poorer in ragged, padded cotton clothes hara it finds so many victims! roads, that the main line did not go stones are erected nor are there any and with little peaked caps. Very few



General Norbhookomi Afghanisti.

horses were to be seen, as only the The city wall varies from twenty to wealthiest people could afford them

WORLD EVENTS IN PICTURES



Some of the Great Number of Heavy German Guns Captured by British During August.



Nazareth, Home of Christ, Again in the Hands of Christians.



Great Hordes of German Prisoners Being Marched to Rear Under British Guard.



French Officer Commanding Allied Armies on the Bulgarian Frontier Reviewing Greek Troops Before going Into Battle.



Arabs Who Have Come to the Assistance of the British in Driving Turks Out of Palestine, on the March Across the Desert.



Meet Mrs. Munson—who has two in the Army—and two selling W. S. S.

RS. ALGER tells me I look ten years younger since we got our Colt Lighting and Cooking Plant, and I believe her. I know I feel lots younger. It gives me more time to myself than I ve ever had before. I visit friends now as I haven't done since I was married.

"Now that we have a Colt Light the Red Cross workers come to our house in the evenings to sew. They say it is a good deal easier to work by this soft, strong, white light, and they certainly do more work than they used to.

"I can't help smiling when I see the way boys have taken to calling on my two girls of an evening, to sing and dance or play games. The whole atmosphere of the place seems more alive, more wide-awake. The lights seem actually life-giving, as plants grow in the sun.

"Out in the barns the Colt Light is a perfect Godsend when the days begin to shorten. James has said to me dozens of times: 'Mother, since we got the Colt Plant this place runs like an automobile engine—easier and smoother at night than it does in the daytime.'

"All our old fear of the barns catching fire from matches or lamps has gone. We pull a tiny switch and the barn is flooded with light. We shut off the switch and out she goes. No matches or fuss with lanterns.

"Nothing would ever persuade me to go back to the old days, cooking with coal or wood or kerosene. Our Colt gas cooking range has forever banished those dreary hours over a hot fire! I shudder when I think of them. In the bottom of my heart I pity the poor women who are still chained down to such a tiresome, listless life. Cooking is a real pleasure with a Colt Gooking and Lighting Plant.

"And the Colt is so wonderfully simple! We've had it over a year and never know it is in the house. Not a sound. No chugging engines. Nothing to get out of order. The Algers have had their Colt Plant seven years and have not spent a penny for repairs."

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The Colt system costs less than any other. It is so small it can stand in a corner of the cellar or outbuilding. The operation of plain water on crushed stone (carbide) produces the gas. These are added once a month. It is so safe that 700,000 miners use it for miners' lamps. Write us today for the names and addresses of enthusiastic neighbors, who can tell you all about it.

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Wednesday, October 2.

Wednesday, October 2.

THE foe's entire line yields to the heavy blows of General Foch. Belgian cavalry is operating far on the road toward Bruges and Ostend. The French and British troops press beyond St. Quentin both to the north and south of that objective. It is also reported that some of the Allied troops have already entered the city.—Hard fighting by the French carries them in a long advance from the Alsne river, which outflanks Laon.—Americans capture and sweep beyond Cierges.—In Palestine, General Allenby's army has completely encircled Damascus.—Turkey demands cash and men of Berlin, and if these are not forthcoming that country will follow the lead of Bulgaria in asking for peace with the Allies.—Serious uprisings have occurred in Roumania.—United States Senate defeats the bill providing for woman suffrage, by a vote of sixty-two to thirty-four, or two votes short of the necessary two-thirds majority.

Thursday, October 3.

Thursday, October 3.

Thursday, October 3.

A LLIES continue to gain along the entire western front from the North Sea to Verdun. The Belgians are close to the U-boat bases on the North Sea coast. They have captured Roulers and cut the Mennin railway. St. Quentin is in the hands of the Allies and the Hindenburg line is opened up a distance of eight miles at this point. The French take new ground to the northwest of Rheims, and Americans and French cooperating clean out the Argonne forest in the Champagne sector and press farther to the north.

—In Palestine the British occupy Damascus and take seven thousand prisoners.—It is hinted that Austria is about to make another peace offer. A daily consignment of airplanes is being daily consignment of airplanes is being shipped from America for overseas service.—The government announces minimum and maximum prices for shoes which are \$3 to \$12 respectively.

Friday, October 4.

GERMAN newspapers predict a German retirement on the western front to a line extending from Antwerp through Metz, which would surrender the western half of Belgium. Germans the western half of Belgium. Germans evacuate Lens and Armentieres. The Allies smash German fortifications between Cambrai and St. Quentin.—American, British and Italian warships destroy the Austrian naval base at Durazzo, and sink the war ships anchored there.—Austrians are withdrawing from Albania, being hard pressed by Italian forces, who have captured Berat.—General Allenby captures entire Turkish army in his operations in northern Palestine.—Austrian Chamber of Deputies takes up disations in northern Palestine.—Austrian Chamber of Deputies takes up discussion of the question of peace with the Entente Allies.—A bill before the United States Senate to authorize the President to name a reconstruction board is hotly opposed.—The influenza epidemic in army camps shows an increase during the past twenty-four hours, in which period 331 deaths are reported, sixty more than for the previous day.

Saturday, October 5.

A USTRIA requests Holland to inpeace negotiations. The Americans advance on a twenty-mile front for a distance of three miles in an offensive near the Meuse valley. Fighting of the most furious nature has occurred along the British front in the region the most furious nature has occurred along the British front in the region east of Le Catelet. Germans launch six powerful counter attacks in this region. All were repulsed except one, which obliged the British to withdraw for a time from Beaurevoir and Montbrehain. Enemy is hard pushed far to the east of Lens.—Italians sweep for the promotion of the second of the from Albanian positions.—Explosions of munitions near Perth Amboy, N. J., resulted in fifty or more deaths and many scores of persons being injured.

Sunday, October 6.

News is received that Germany, Austria-Hungary and Turkey are asking President Wilson to make representation for a general armistice and negotiations for a general peace. In their appeal the Central Powers declare that they are ready to negotiate on the fourteen points in President Wilson's message of January 8 and the four points of his speech of February 12 and September 27.—British reach the Haute Deute Canal and Germans are evacuating Lille. The French

take Fort Brimont, and the massif of Moronvillers and encircle Nogent L'Abbesse. Americans and French are crushing in the southern wall of the German defense which extends from Rheims to the Meuse.—During the fighting of the past week the Allies account for 194 aircraft of the enemy.—A new record is established in the movement of forty-eight million bushels of grain across Lake Michigan from the beginning of the crop season to October 1.

Monday, October 7.

Monday, October 7.

Monday, October 7.

THE united stand of allied nations on the peace proposal of the enemy is for an unconditional surrender of the armies of the central powers, this being the attitude of the civil populations as reflected through the press and from pulpits.—On the western front Haig captures Fresnoy, and the Americans take St. Etienne in the Champaigne sector, thereby compelling the Germans to withdraw on a twenty-eight-mile front.—Italians open an offensive along the Aillete. In the southern theatre the Austrians are being forced to withdraw by the pincer movement of allied forces in Macedonia and Albania.—Nearly 7,000 cases of Spanish influenza are reported at Camp Custer.

Tuesday, October 8.

Tuesday, October 8.

Tuesday, October 8.

A USTRIA claims she is ready to cede to Italy such land as the Italians have won and to the new nation of Poland parts, of Galicia as a guarantee that the latest peace offer is sincere. The Allied nations, however, look upon the appeal for an armistice as a pleading for time to reorganize the armies of the central powers.—The enemy line from La Fere to the Meuse is tottering, the Americans having crossed the Aire river while French take Berry-au-Bac near the east end of the Chemin-des-Dames.—The armies of Marshal Foch are forcing the invader from the Belgian coast without pause and the Serbs and Italians are fast recovering territory occupied by the enemy in Albania and Serbia.—The French capture Beirnt on the Mediterranean Sea, a new point from which attacks can be made against Turkey.—Loyal Russia notifies America that the new government will raise an army to fight the central powers.



The Leader of Our Armies in France. Yes, this is our own General John J. Pershing at the Age of Six.

"By the Way"

OUT AND IN.

The class in natural history being asked to state the difference between a dog and a tree, the head boy promptly gave this answer:
"A tree is covered with bark, while

a dog seems to be lined with it."

WHAT DID HE MEAN?

Clara, very earnestly: "If you had never met me, darling, would you have loved me just the same?"

George, fervently: "Yes, dear-

Conundrum.-What is dust? Answer .- Mud with the juice squeezed out.

COULDN'T FOOL HIM.

"How do you know it was a stork and not an angel that brought your little brother?"

"Well, I heard pa complaining about the size of the bill, and I guess the angels don't have bills!"

HE'D GET MO' LATER.

Little Rastus had come to see if Miss Jane would give his mother "a little 'lasses."

"Why don't you say a little molasses, Rastus?"

"Why, Miss Jane, you don't nach'ly think I'm goin' ter say mo lasses when I ain't had none yit!"

SHOT IN THE MELEE.

Loquacious Visitor.-So you were wounded at the front, my good man? Irishman.-No. Begorry. wounded in the rear av me.

FOOD CONSERVATION.

Two British soldiers went into a restaurant in Salonika and ordered the waiter to bring them "Turkey with Greece."

"Sorry, but I cannot Servia," replied the waiter.

"Then bring the Bosphorus," cried the soldiers.

The boss came, and after hearing the complaint, answered, "I regret to Russia, but you cannot Roumania."

So the soldiers went away Hungary.

NOT EVEN A GERM.

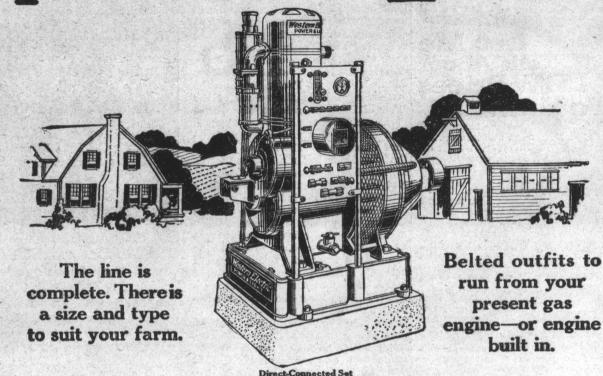
A country school teacher was cashing her monthly check at the bank. The teller apologized for the filthy condition of the bills, saying: "I hope you are not afraid of microbes."

"Not a bit," answered the school-ma'am; "I'm sure no microbe could live on my salary."

Today's Riddle



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WESTERN ELECTRIC COMPANY

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WESTERN ELECTRIC CO., Inc.

P. O. Address.



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WHETHER or not you have been in a habit of sending your furs to Prouty, tag your next catch to us.

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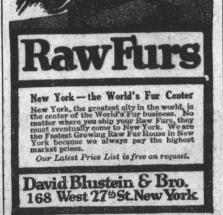
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is easy to operate. Our No. 1 is the best and cheapest saw made to which a ripping table may be attached. Guaranteed I year. Money refunded if not satisfactory. Write for catalog.



4'Saw Wood!" saw wood for yourself, saw wood for the Government, saw wood for the Government, saw wood of the greeze. Use a gasoline drag saw that will do the work of ten men. Write for eatalogue. Address S. N. CASTITE & COMPANY.

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Wanted: Lady or gentleman at once to place a neighborhood preliminary to securing a dealer. Liberal discount to consumer: liberal pay to you.

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HILLBROS. FUR CO. 352 HILL BLDG Wanted: To place a few advertising orders your locality. Liberal discount the trial orders to the consumer and liberal payme to you. No selling experience necessary. Cle legitimate, easy and quick way of making fifty one hundred dollars Christmas money. Write once for representation in your neighbood. The X-CEL-ALL COMPANY.

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Wanted Clover Seed & Peas All Kinds
Please submit us an average sample of any quantities
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you a price that will look attractive.
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WE WANT VETCH. SEND US YOUNG-RANDOLPH SEED CO., Owosso, Mich.

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A Visit to an Alfghan Bek

(Continued from page 331).

usually have their wares, muskmelons and watermelons, on the ground. The sellers of bread walk around, calling their wares in not so unmusical voices, carrying the round, flat loaves in trays on their heads. Facing one of the largest squares is the palace of the Emir of Bokhara, a large pile with a great arched entrance above which is a clock that was not running at the time of my visit. The natives claimed that the Emir had six hundred wives at that time; quite a modern Solomon! Not very far from the palace stands a tall tower with a winding stairway inside, leading to a sort of balcony at the top, from which until recent years criminals were thrown for the purpose of execution, a very sure means, as the tower is a hundred or more feet in height. I talked with a native who had seen such an execution some years the practice but the tower still remains.

We fell in with two tea merchants, uncle and nephew, from Samarkand and the uncle invited us to go with him to see the drill and review of a portion of the Emir's army. We took a carriage and drove out to the edge of the city, to a field perhaps five acres arrive, some singly from all directions, others marching upon the drill ground by companies. The uniforms were in but the shades of red in the trousers varied greatly so that hardly any two uniforms exactly matched. They were, moreover, extensively patched, the patches often being of entirely different color. The guns were held at all angles and were in very poor condition. Some had bayonets and ramrods, some lacked them, and some had rags stuffed in the muzzle. They were muzzle-loading, percussion cap guns, probably at least fifty years old. With the army came a band of thirty or



A Street Scene in Bokhara.

and making a noise worse than the barracks. As we drove back into the way into the large garden at the rear After the companies were all lined up removing their uniforms and putting a little pavilion resembling a bandthe band played the national anthem on their native costumes which they stand such as one would find in a soldiers knelt while it was being play. stones, etc., in the fields that we was smoking his "chillim" or water ed. They were then given the com- passed. mand "Rest," and squatted on their In the city again we traversed afoot heels and ate bread and melons or the bazaars, i. e., the streets devoted grapes, which they bought from hucks- to shops. These were mostly shaded nied us as we went along. We inspectters walking up and down the lines. temporarily by poles across from the ed the fig trees, testing their fruit, as The general and his staff took refuge roof of one building to that on the opfrom the hot sun in the shade of a posite side of the narrow street, high mud wall, sitting on beautiful branches of trees or coarse sacking berugs which were spread by servants ing spread over these poles so as to were not yet ripe. who presently brought refreshments, produce a sort of dim twilight below. Our Samarkand tea merchant, who The shops were small, from four to six we found our host seated on a chair, knew the general, took us over and in- feet square, about sixteen inches above in full uniform-fur cap, gold braided troduced us. At his invitation we sat the level of the street. The proprietor coat, bejewelled sword, etc., but lookdown and partook of refreshments af- sat cross-legged, in the middle and ing rather ludicrous in his baggy,

Nearly every square serves as a the native bread, made of whole wheat rising. The customer stood in the

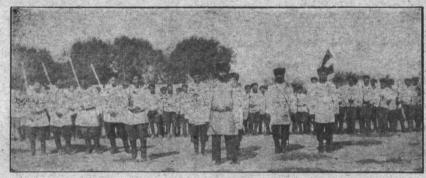


Criminals Were Thrown from Tower.

so drawn up that I need not have my honesty. camera facing the sun. When the luncheon was over the general called with whom I had some business to in extent. Soon the soldiers began to through various evolutions, the most the city and had a large garden, as did amusing being the forming of a hol- his neighbors. He suggested that we imitation of the Russian army uniform ordered to aim (without the prelimi- was typical of the better sorts of nanary order to load or to cock their tive gardens. We went afoot, as it was guns) and then to fire. At the com- but a short distance, four of us, our

market place and on it are erected flour, and baked in flat, round loaves street at the front of the shop unless rough tables with awnings above, the about eight inches in diameter and an a camel caravan passed by, when he vendors sitting on these tables among inch or so thick, and grapes and mel-would have to scramble into the shop their goods. The melon merchants ons, and, of course, tea. The general as a camel has a very unpleasant habit of biting a piece out of any unwary person within reach. All the shows devoted to the same things were together, so that on one street were nothing but hardware booths, on another the shops for silks, the spiceries being all together and scenting up the street long before one reached them. Here and there a money-changer sat behind his table ready to change a Russian fifteen copek piece (about eight cents) for four or five ill-shaped copper coins minted by hand and belonging to Bokhara or one of the several khanates formerly existent in Turkestan. These coins in turn were exchangeable for sixteen irregularly round unminted copper disks, looking like short segments of copper trolley wire hammered thin. Although they were worth only about an eighth of a was curious to find out where we came cent apiece they sufficed to buy quite before. Soon after the Russian occu- from. He had heard of America, it a handful of roasted pistachio nuts. We seems, for he was a traveled man and saw one money changer's table where had been as far as Moscow, but he had the owner had gone away leaving his never seen an American before. See- money on the table. People in need ing my camera he asked if I would of change came up, made the change photograph his army, to which I gladly and departed, apparently never thinkassented. I explained that it must be ing about the fine chance for dis-

> We eventually found the Russian his army to attention and put them perform. He lived in the outskirts of low square to repel attack by cavalry. go, while dinner was in preparation, to While in this formation the men were visit the garden of a neighbor as it



The Army of the Emir of Bokhara.

forty "musicians" with fifes and drums and the rest marched away to their garden, so we passed through an arch-"Streets of Cairo" at the Worlds Fair, city we passed several of the soldiers and found him sitting cross-legged on (whatever it was called) and all the had hidden in holes in the walls, under small country town in America

mand "Fire" every man shouted at the Russian host, whom I shall call Mr. top of his voice, making a rather re- Lipsky, Mr. Nylo, my interpreter, a spectable noise, even if it did not servant of Mr. Lipsky's and myself. sound exactly like a volley of mus- Arrived at the house Mr. Lipsky's servant pounded at the door and called Finally the general lined up his army out a warning for any women to get facing the sun, and then sent an aide out of sight, for it was very probable to learn if the position suited me. I that some member of the household was mean enough to take two pictures, might be out in the courtyard unveilthe first before the general had gotten ed. When we were informed that the the men's guns and the officers' wood- way was clear we entered and found en rods all at the proper angle (he ourselves in a courtyard bounded on alone carried a sword), the second pic. three sides by the house and on the ture after all was in order. Then part fourth by the stable. A servant told of the army was dismissed on the spot Mr. Lipsky that his master was in the pipe. We asked his permission to view his garden and it was granted. His little son and two servants accompawell as other fruit trees whose season was past. The grape vines showed great promise of fruit but the grapes

When we returned to the pavilion ter he had asked a blessing. We had was able to reach anything without white, but none too clean cotton trousers and bare feet. He invited us to take refreshments consisting of tea, cakes, candies, nuts and raisins. After that he began to talk. In the Afghan language he asked me where I came from. One of his servants translated this into the Sart language (the language of Bokhara), and Mr. Lipsky in turn translated the question into Russian, Mr. Nylo making the final rendering into English. I answered that came from America, and back through the different languages the answer went until it reached our host in the Afghan language again. He looked at me in surprise and then with deep interest. "Americoon, Americoon," he said, and then began a most guttural jabbering that reminded me of a couple of dogs having an argument. This when duly translated into Sart, Russian and English was an expression of surprise at seeing an American and an inquiry as to whether Columbus was still a Bek (Prince) in America. I was somewhat taken aback at this, for I hardly expected an Afghan to know about Columbus, but to be asked if he were still alive and a prince in America was still more surprising. I answered that Columbus was dead, news that appeared to interest him very much.

After asking what I was doing in Bokhara he began talking about himself. He was, he said, a Bek in Afghanistan, i. e., a Prince or Chief of one of the districts of which that nation is comprised, all such Beks being subject to the Emir of Afghanistan much as the several kingdoms of Germany with their kings are subordinate to the German Empire with its Emperor. Our Bek had a feud with a neighboring Bek and made a raid with his army and killed seventy or more of his neighbor's subjects. This incensed the Emir who started after him with his army, determined to get his head. He fled to Bokhara where he threw himself at the feet of the Emir of Bokhara and putting his hand on his head said, "My head is yours." The Emir raised him to his feet, made him a general in his army, confiscated somebody's house and garden and gave them to him. So there he was living, with two of his wives, his favorite son, his Arab horses and his slaves, proud of his past deeds and of his high favor with the Emir of Bokhara.

I asked him if I might take his picture and he eagerly assented, asking me to send him a print. The accompanying picture shows him with his son and two servants. I asked him his name and he gave it as Noibhookomi Afghanisti, General of Bokhara, and that of his son as Hoolom Haidar Khan. These were pronounced with a guttural roughness that makes the harshest German or Russian sound smooth and musical in comparison. I attempted to repeat the boy's name but unfortunately neglected "Khan," which means something like Prince. The father was indignant and repeated the name again several times, emphasizing the word Khan until I got it right.

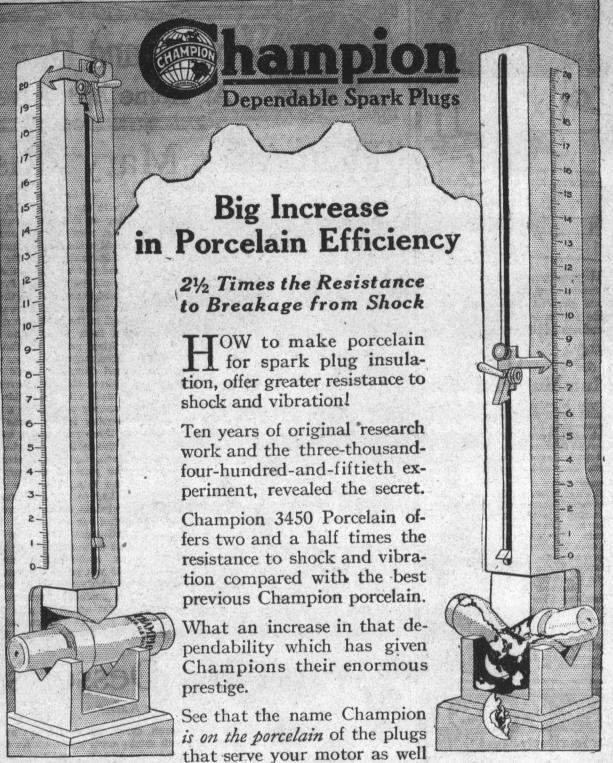
Bek Nolbhookomi wanted us to take dinner with him, even offering to send for Mr. Lipsky's cook so that the dinner might be satisfactory to us, but we were unable to accept, much as I would have enjoyed being his guest. As we were leaving he insisted that we see his Arab horses. The last we saw of the grim old man he was get ting down, out of his unaccustomed chair and settling down again in comfort, cross-legged on the floor of his pavilion.

AUTUMN.

BY L. M. THORNTON.

The whip-poor-wills are calling Are calling soft and low, And back and forth a pheasant flock Like frightened shadows go. The highway beckons deep with dust, And blue the skies and clear, But the white-winged moth has told me

That Autumn draweth near.



There is a Champion Spark Plug for every type of motor as on the box. car, motor truck, tractor, motorcycle and stationary engine.

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Amount Paid \$25,423.19 102 Claims Paid Fire Total \$69,620.18 19,297.41 in 1918 26,899,58 Liability 217

Fire losses occur many times in the public garage, and, as cars grow old, there is a greater danger

A few days ago one of our members driving his car away from home left it standing; another driver accidently bumped into the gas tank, setting the car on fire and burning it.

No man can afford to go without insurance at this time.

The Government expects everyone to keep well protected. They encourage insurance of all kinds, especially for those who are poor or in moderate circumstances. A small amount paid makes you safe. When the committee for Liberty Bonds comes, it is a poor excuse to say "My Automobile burned or was stolen or I have a lawsuit to defend, and cannot buy." You can keep yourself safe by carrying automobile insurance, as the cost is only about 2c per day.

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Dear Aunt Mary" Rises to Protest

perament of the grownups.

Instead, to save the pride of a daugh- days out, if you do their work. If they

wornout little woman with a six-weeks' stead of being paid wages for work in their homes. either pampered and spoiled, or nag- these are the things many a grand- beds or dusting or washing dishes. ged and spoiled according to the tem- mother has had to take, because she It is simply a case of two extremes. By all means let grandmother and insist on living her own life.

salary, and a snug little bank account. and having your own room and your thoughtful, and then we have harmony.

COME weeks ago the trials of a ter or a son, they have gone to make will not agree to this arrangement, young mother of four was referred their home with the young folks. Here, then go out and work for someone to in this column. The grandmoth- as the writer of the letter suggests, else. There are plenty of women who er and aunt were driving taxis and do they have not received the ordinary would pay you almost anything you ing "farmerette" stunts, while the good treatment a maid would get. In- ask these war days if you would help

old baby, struggled along alone. The which no hired girl would do, they are The case referred to in The Farmer, article has aroused the ire of a maid-told they should be thankful for hav- however, was different. The mother en aunt, who quite evidently stayed ing such a good home, and all the tire- in question absolutely could not get home to do her bit and got no thanks some tasks which no one else wants to domestic help. Her mother and sister for it. She writes calling attention to do are told off to them. Peeling vege- were well-to-do and had their own the number of grandmothers and aunts tables, when their bread and pies home. They both proclaimed themwho are slaves to their relatives and could be taking prizes at the fair, selves anxious to help in any way to makes some very pertinent remarks. washing dishes, mending clothes which win the war, yet failed to see that Chief of her contentions is the idea are so ragged daughter would never their best way to help was to give a that parents should be left to work bother with them, staying in evenings, lift at home. The idea was that inout their own salvation, while grand- and days as well, with the children, so stead of spending all their time on outmothers and maiden aunts spend their the young mother can "have a rest," side work they might both give the lives as they see fit. To this I say a probably sleeping in the same room daughter and sister an hour or two hearty "Amen." Any other arrange- with two or three youngsters, because each day. She would gladly have paid ment is bad for all parties concerned, they bother the mother, and she must her mother for doing the mending, or for the parents, for the relatives, but have her sleep, taking the shabbiest the sister for stopping on her way most of all for the kiddies, who are room and the pickings of everything, down town every morning and making

hadn't the wisdom or the courage to In both cases selfishness is at the root of the trouble. Occasionally grand-'Aunt Mary" live by themselves. I Most heartily am I in favor of ev- mother and aunt just naturally can't have in mind several grandmothers, erybody, man or woman, old or young, see anything they might do to help old women now, who, had they done insisting on maintaining their inde- out at home. More often the mother as they wished and gone as a house-pendence. If you go to live with son of a growing family thinks she is the keeper at a good wage when they were or daughter, brother or sister, on any- hardest used person on earth and acwidowed, would have had several thing but a business basis you are cepts all one does as only her right. years of independence, work at a good doomed. Insist on being paid wages Sometimes both sides are just and

War-Time Desserts

Kitchen Shots at the Kaiser

Sweet Apple Cobbler.

three cupfuls of water for fifteen min- into individual molds to cool. and one-fourth cup of raisins. Place instead of dates. this in a baking dish, and cover with one's favorite biscuit dough. The ley flour, wheat and corn flour or quarters cup of milk. wheat and oat flour are good combinautes. Remove cover, brush crust over roll it to one-half with melted butter or a little molasses, inch in thickness and set in a hot oven for fifteen min- Cut as for bis-

Cereal Fruit Pudding.

- 1 cup cooked left-over cereal
- 1 cup fruit, raisins, dates or figs
- 1 teaspoon salt
- 2 cups milk
- 2 teaspoons butter

1 cup fruit juice.

water and boil until thick; add the erous amount of sliced canned peach- ASK FOR THIS BREAD BULLETIN. milk and boil slowly for one hour; add es. Put the the chopped fruit. Brush a baking serve while still warm, with cream. dish with butter, pour in the cereal, place in a moderate oven and bake for forty minutes. Serve warm in the dish in which it has been baked, with a sauce made of the fruit juice.

Date Pudding.

2 cups milk

1/2 cup corn or maple syrup

12 seeded dates cut up small

3 tablespoons cornstarch

1/2 teaspoon salt 1 teaspoon vanilla.

in a double boiler. Add the corn-twenty-five minutes. Notice that this a small amount of rye and wheat flour.

starch, syrup, dates and salt and stir Pare, core and quarter six sweet and until thick; cover and cook for twenty two or three tart apples, and boil in minutes. Add the vanilla and pour, utes. Add one-fourth cup of molasses serves five people. Prunes are good

Peach Shortcake.

Biscuit Dough.—One cup of barley dough may be made of any of the wheat flour, one-half cup rice flour, one teasubstitutes in a fifty-fifty combination spoon of salt, four teaspoons of baking with the wheat flour-wheat and bar- powder, two tablespoons of fat, three-

Sift the flour, baking powder and tions, following the general directions salt, work in the fat, add gradually for making baking-powder biscuit. Cov- the milk and mix to a soft dough. Turn er tightly and steam for forty-five min- the dough out on a floured board and

> cuit, and brush each with a lit-G tle shortening. Place two of the rounds to-

gether with the greased side in recipe requires no sugar, and uses the center, and bake as individual cornmeal for half the wheat flour orshortcakes. When baked, separate the dinarily used. Put the cereal into two cupfuls of layers, and place between them a gen-

' Gingerbread.

1 cup cornmeal

1 cup wheat flour

2 teaspoons cinnamon

2 teaspoons ginger

1/2 teaspoon salt 1 teaspoon baking powder

1 teaspoon soda

cup molasses cup sour milk or buttermilk

2 tablespoons fat.

One of the most helpful pamphlets that have come out since food substitutes and war breads came into vogue is a bulletin on "Breads for War Time" that has been compiled for the housewives of Michigan by Miss May Pearson, of the Department of Home Economics of the Michigan Agricultural College. Miss Pearson's pamphlet tells how war breads can be made and includes a number of recipes for such breads as standard bread, standard Sift the dry ingredients and add the substitute bread with mashed potato, Mix the cornstarch with one-fourth molasses, milk and fat. Beat well and potato bread, oatmeal bread, bean cup of milk. Heat the remaining milk pour into a greased pan. Bake for bread, rye bread and bread requiring The booklet, which has been issued by the college for general distribution without cost, can be obtained by writing a card to the Department of Home Economics of M. A. C., and asking for "Extension Course Notes 17."

FOR THE PICKLE SHELF.

Cucumber Catsup.

- 1 dozen large cucumbers
- 1 quart vinegar
- 1 tablespoon salt

14 teaspoon cayenne pepper.

Gather cucumbers before the sun strikes them and keep in a cool place until used. Peel and grate the cucumbers and drain off the water. Heat the vinegar and spices to boiling point; pour at once over the grated cucumber, bottle and seal. Cucumbers bottled in this way retain their freshness, and make a particularly good sauce

Curry Pickles.

Boil together for five or ten minutes, two quarts of vinegar, one tablespoon of salt, one teaspoon of black pepper; take one tablespoon of curry powder, one and one-half tablespoons of corn starch, four tablespoons of ground mustard, one tablespoon of sugar, or more if desired. Mix these thoroughly with a little cold vinegar, then put into hot vinegar mixture and stir all until it thickens. Take about three hundred small cucumbers and wash thoroughly. If medium-sized ones are used, cut in small pieces. Pour the boiling sauce over the cold cucumbers, bottle and seal.

Picalilli.

Chop fine a peck of green tomatoes and a quart of white onions. Sprinkle with two cups of salt between the layers and let them stand over night. In the morning drain well, add a head of cauliflower separated into small flowerets, one quart of chopped green peppers, two ounces each of cloves, allspice, cinnamon and mace, and four ounces of mustard seed. Stir thoroughly, cover with good vinegar, scald and pack in jars. Cover when cold.

Apple Catsup.

- 1 quart apple sauce
- 1 teaspoon vinegar
- 1 teaspoon cinnamon 1 teaspoon cloves
- 1 teaspoon pepper
- 1 teaspoon mustard
- 1 teaspoon onion juice
- 2 teaspoons salt

1 pint vinegar.

Simmer slowly until thick, bottle and seal. A similar catsup can be made from plums or grapes, and spiced to taste. Sorghum or molasses may be added if a sweet sauce is liked.

Apple India Relish.

To utilize windfalls and cull apples, the following recipe will be found an economical one.

- 2 dozen medium-size ripe tomatoes
- 6 medium-size onions
- 3 green peppers 1 dozen tart apples
- 1 pound seedless raisins
- 1 cup finely chopped celery
- 2 quarts vinegar
- 1½ cups corn syrup 3 level teaspoons salt.

Place tomatoes in boiling water for five minutes, remove to cold water, and peel. Take out seeds of peppers, using pulp only. Peel and core the apples. Chop all the vegetables together. Add raisins, vinegar, corn syrup and salt. Cook in open kettle until vegetables are soft—about twenty minutes. When mixture is thick, place it in sterilized jars. Screw covers tight, or bottle and seal with corks and

America must literally feed the world during the war and at the same time to prepare to rebuild the world's food supplies when victory brings

We carried the 1918 objectives—wheat, meat, fat and sugar—and now we are settling down to a steady push all along the line.

Don't Nig

Use Your Substitutes

In the purchase of Pure Wheat Flour and the substitutes separatly there is an opportunity for "nigging."

It does not seem possible that any Loyal Red blooded American would deliberatly violate the Food Administration regulations by using the wheat flour and not the substitutes.

In fact no loyal American will do so or can do so, for just as sure as he knowingly violates the Food Administration regulations he is not a a Loyal American, but a Slacker.

Because of the fact that

Lily White

"The Flour the Best Cooks Use"

is a 100% wheat flour it is necessary to purchase 25 pounds of either Corn Meal, Corn Flour, Barley Flour, Kaffir Flour, Milo Flour, Feterita Flour and Meals, Rice Flour, Oat Flour, Peanut Flour, Bean Flour, Potato Flour and Sweet Potato Flour or Buckwheat Flour with every 100 pounds of LILY WHITE FLOUR, or any other pure wheat flour. If you desire to use Rye Flour as a substitute, you are required to purchase 2 pounds with every 3 pounds of pure wheat flour, whereas you will note the other substitutes are used on the basis of 1 pound to every 4 pounds of pounds of pure wheat flour.

However by using LILY WHITE FLOUR with the substitutes you will be able to make splendid bread—in fact, really delicious bread, rolls, biscuits and pastries.

Remember the quality of Lily White Flour is unexcelled and, furthermore, it is guaranteed to give perfect baking satisfaction for every requirement of home baking.

Our Domestic Science Department furnishes receipes and canning charts upon request and will aid you to solve any other kitchen problems you may have from time to time. Public demonstrations also arranged. Address your letters to our Domestic Science Department.

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No. 2042—Ladies' Apron. Cut in four large. It requires 5½ yards of 36-inch material for a medium size. Price 10c.

Claims Paid In 1918

Losses	Number	Total Amount
Fire -	102	\$25,423.19
Theft	132	19,297.41
Liability	217	23,899.56
Collision	44	1,869.25
Total Claims Pai	d 495	\$71,489.41

From the above statement automobile owners should remember that the dangers by fire, by theft and liability are about the same and no automobile owner should go a single day without insurance.

A small amount of money paid by each one thrown into a common fund helps the unfortunate. That's the reason that automoble owners throughout the State of Michigan are boosters for the

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> OF Howell, Michigan

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THE SELF-OILING WIND

Save the Seed for Victory

fertilizer. It means that the common sent up and will be in blossom early in are grown together. insects and diseases should be antici- July. Hot, humid weather with the Early Crosby, a white variety, and before. In normal times large quan- latter part of August, when the seed frosts. tities of vegetable seeds were annually turns black, the seed heads should be imported from Europe by American cut and placed on trays or chicken liest ears for seed. Sweet corn is even seedsmen. These seedsmen were wont netting to dry. The seed is easily more apt to mold and is more sensi-



A Club Girl's Seed Garden.

reached. This is due, of course, to the curtailed importation, to exportation turnips, cabbage, and other vegetables in some parts of the country.

an extra effort is made this year, and seed. unless home gardeners come to the rescue, a serious seed shortage may

some amateur gardeners to insure pulled in the spring for the table or to be too moist and attics too hot. against a possible shortage. The sim- market, select a few of the best roots ple directions included herein can be for seed production. The tap or lower followed in any home garden. The root should be slim and unbranched seeds of annual garden plants are rip- and the crown small, with but few ened in one season. In the case of leaves, while the radish proper should containers that are air-tight and moistbiennials, two seasons of growth are be firm, of good color and of ideal proof.

Save the Best Plants for Seeds.

successful seed saving. The best plants the latter part of September and dried are the most productive, of the ideal a few days in the sun. The seed may form, type or quality of the product, easily be removed from the pods by freest from disease and earliest in flailing or beating by hand. maturity.

place.

Onion.

in the spring for seed production. In before storing. sections where the ground is covered with snow most of the winter, the

to have on hand a reserve supply in flailed or rubbed out and the light case of emergency needs. This reserve seed is separated from the heavy seed supply has been drawn on until it is by settling in water. Store, when it is now at the lowest point it has ever thoroughly dried, in a cool dry place.

Spinach and Lettuce. Spinach, although a biennial, will of-containers. of some seed stock to war-stricken Eu- ten produce seed the first season if ropean countries and to the abnormal- the weather conditions are favorable. tainers, such as tin or heavy wooden ly large use of garden seeds in this Plants that are started in the fall procountry for war gardens. Then, too, duce the best seed crops. It is then weather conditions have been such as handled like lettuce so the directions to cause a reduction in seed stocks of for the two may be combined. Simply radish, spinach, onion, beets, carrots, allow two or three of the best plants or plants producing the best heads or tops, to throw up a seed stalk in the Preparedness at this time, then, early summer. It is well to remember means the making certain of next that spinach produces male and feyear's supply of garden seeds. Unless male plants, only the latter bearing

Radish.

Radish seed of the very best quality result. The old-time plan of saving is very successfully grown in Michione's seeds may be followed with some gan. White Tip, Scarlet Turnip, Scarmodification and next year's supply in- let Globe, French Breakfast and White Pearl are the varieties in greatest de- boxes. form. Transplant the selected plants and cultivate as with other crops. The CLUB LEADER GOES TO RUSSIA. This is a fundamental principle of matured plants should be pulled about

Tomatoes, Eggplant and Peppers. Take a few of the best bean and pea a practice of selecting and saving of the army. At the end of that time plants in the garden and let them ma- their own tomato, eggplant and pepper he will be detailed to Russia to assist ture their seed. Select plants that are seed. Selection should be based on in introducing more modern agriculproductive and that produce the larg- the plant characters as a whole rather tural est and best filled pods. Do not save than on the characters of an individual republic. seed from diseased plants or from spot- specimen. A good plant is one of vig- For the last six years Mr. Lindeted pods. Pull the plants and hang or, free from disease, having the abil- mann has been connected with the exthem in some airy place to dry, or if ity to mature uniformly a large num-tension staff of the M. A. C. as state mature, shell them and store in a dry ber of uncracked, well-formed and per- Leader of Boys' and Girls' Clubs. More fectly colored fruits. The thoroughly than forty thousand boys and girls The onion seed stalk is produced the pail filled with water. After fer- these junior clubs and instructed by from a full-grown bulb which must be menting for a few days, the pulp is him and other club leaders in such wintered over and planted out the fol- washed out, leaving the seeds which subjects as gardening, poultry huslowing spring. It is a biennial plant, have settled to the bottom. These bandry, handicraft work, calf clubs, Only the best bulbs should be set out should be thoroughly dried in the sun pig clubs, corn clubs, etc.

HE slogan "Preparedness," when bulbs may sometimes be planted in the sweet corn seed has been very difficult applied to the home garden, fall, three to four inches deep. The to obtain, even at high prices. Northmeans being at least one jump bulbs should be set at distances of ern grown sweet corn is superior to ahead of the garden game at all times. about six inches in rows that are three that grown in the west or south. Home-In normal times, it means assurance feet apart. Use soil well enriched grown seed, if carefully selected, gives that gardens are to be fertilized eith- with decayed manure and slightly cov- excellent results. Some crossing may er by green manure crops or other er the bulbs. Seed stalks are soon occur, however, if different varieties

pated and disposed of before they get temperature running over ninety-five Golden Bantam, a yellow variety, are started. These are not normal times, degrees when the flowers are in blos- good varieties for both table and canhowever, and preparedness means con- som or the seed in the milk, is very ning use. The seed will mature in siderably more now than it ever did detrimental to seed production. The most parts of Michigan before the fall

Select the best, well filled and eartive to cold and wet than field corn. If the ear has not fully ripened on the stalk, it should be husked before the first frost occurs and dried in an airy place, preferably free from frost.

Root Crops.

Beets, carrots, parsnips, salsify, turnips and rutabagas are all biennials which go to seed very readily the second year, under Michigan conditions. A few of the roots of ideal form, size and color, that have been stored over winter successfully may be planted in the garden early in the spring. Parsnips and salsify, however, may be left standing in the field over winter. The roots should be planted two feet apart in rows that are three feet apart. The crown should be lightly covered with soil. During July or August the seed matures and after the plants have been cut and dried in the sun for a few days, the seed may easily be threshed out by hand.

Do Not Forget.

To correctly label all seeds and to keep the different varieties in separate

To store seeds in mouse-proof con-



A second-story room is the The following instructions may help mand. When the radishes are being ideal place for storing. Cellars are apt

Such seeds as celery, onions and parsnips that quickly lose their vitality, will retain their vigor for a longer period if stored in Mason jars or other

R. E. C. LINDEMANN, State Leader of Boys' and Girls' Clubs, will depart on October 1 for Camp Sherman, Chillicothe, Ohio, where for two or three months he will Many gardeners have always made serve in the camp recreational branch methods into the new

ripened fruits are mashed in a pail and were enrolled by Mr. Lindemann in

Upon his return from Russia Mr. Corn. Lindemann expects to resume his con-During the past few years, good nection with the college.

Will Droppings Boards Pay?

For years poultrymen generally have been strong advocates of droppings boards. This arrangement coupled with daily cleaning, has been considered necessary to modern manage ment. Recently the cost of labor has brought about a change. By boarding up a pit under the roosts the droppings collect where they do not become mixed with the straw litter of the house; it is not so necessary to clean frequently as is the case with the boards which are but a few inches below the roosts. It is also easier to protect the roosts from mites if there is no wooden platform directly under the roosts to act as a breeding place for mites.

The advantage of the boards has largely been in the increased floor space covered with deep litter. Under the droppings boards the hens have had a clean place to scratch. With the boarded alley under the roosts the space available for scratching is reduced. However, many poultrymen consider that the saving in time is worth more than the loss in floor space.

A poultry house without droppings boards will not need daily cleaning to keep it clean. At intervals when it is convenient the manure can be removed to the garden. In the small poultry plant, not enough manure accumulates in one day to make it pay to haul it to the fields and garden. A house that has droppings boards which are cleaned daily looks fine, but many poultrymen find the droppings board an expensive method of sanitation.

Capital for Poultry

Every farmer who engages in the poultry business soon finds that it is a business proposition the same as any other line of farming. The amount of capital to be expended determines the scope of the business. A careless expenditure of the capital may make dividends impossible. The investment must be balanced properly in order to make the business profitable.

The beginner with poultry frequently makes errors that take years to overcome. Buildings that are too expensive may be a serious error because no money is left for incubators, quality foundation stock, feed bills and miscellaneous equipment. The purchase of too much breeding stock can also be an error, if too little money is left for the construction of suitable buildings. When there is not enough capital to properly house the flock it often results in overcrowded birds and this lowers egg production, brings disease into the flock and discourages the owner.

The beginner with poultry must be an optimist but must be sensible at the same time. They must not overestimate the probable returns and underestimate the expenses. In planning the development of a poultry business the farmer should remember every item of expense that enters into the cost of producing poultry and eggs. Then he can divide up his available funds and use so much for buildings, a certain amount for stock and running expenses and the remainder for other items that enter into poultry management on the farm. If too much of the capital is expended for one feature of the business the other operations are handicapped and serious losses may result.

When farmers recognize the possibility of exclusive pork production as a specialized branch of animal industry, and evolve systems of farm management adapted to the business, it will become attractive as a business proposition, and herds of well-bred hogs will become common in many localities where few good hogs are now seen.



The average hen lays less than 100 eggs a year. But thousands of hens are laying 200 eggs every year. Why not yours?

Dr. Hess Poultry Pan-a-ce-a will start your pullets and moulted hens to laying promptly.

Remember, going through the moult is like going through a long spell of sickness. The egg organs become dormant, but why let nature bide its own time to revive the egg organs? Feed a tonic.

Dr. Hess Poultry Pan-a-ce-a contains Nux Vomica and Quassia—tonics that promote digestion, that tone up the dormant egg organs. It has Iron for the blood, and internal antiseptics. This combination will keep your whole flock healthy and start your pullets and moulted hens to laying.

IMPORTANT: If your hens are not yet over the moult, supply them with Pan-a-ce-a daily to give them strength and vitality to force out the old quills and grow new feathers. Always buy Pan-a-ce-a according to the size of your flock—a penny's worth for each hen to start with. There is a package for all sizes of flocks.

You have no chances to take. The dealer in your town who sells Pan-a-ce-a will refund your money if it does not do what we claim. 30c, 75c and \$1.50 packages; 25-lb. pail, \$3.00; 100-lb. drum, \$10.00. Except in the far West and Canada.

Dr. HESS & CLARK, Ashland, Ohio

DR.HESS POULTRY PANACEA

Dr. Hess STOCK TONIC

Keeps Hogs Healthy Drives Out the Worms

Dr. Hess Instant Louse Killer Kills Lice

MOLINE TRACTOR FOR SALE

Model "C". Used Very Little. COME AND SEE IT.

GEO. S. BIGELOW, BREEDSVILLE, MICH



We Want More Fresh Hennery

Write Us For Prices
F. J. Schaffer & Co.
Eastern Market, Detroit, Mich.

CHICKENS SICK? Roup.Colds,Canker Bowel Complaint, Limberneck, Sorehead, etc the best remedy is always GERMOZONE. At most dealers or 75c postpaid with 5 book poultry library free.

CEO. H. LEE CO., Dept. 426, Omaha, Neb.

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BARRON ENGLISH 240 EGG STRAIN

White Leghorns most profitable poultry known. Large sized 5 lb. females with long deep bodies and large red combs in every way typical egg-bred Leghorns. Make big profits with our Barron heavy laying Strain. Order breeding stock NOW. Pens mated for you for best results. 12 yearling hens and one cl. for \$20.24 hens two ckls at \$40. Special price on quantity of 100 or more birds. \$100 or over orders Liberty Bonds taken for cash face value. 500 choice selected breeding ckls at \$1.50 each. Write us your wants or order direct from Adv. Devries Leghorn Farms, Box 222, Zeeland, Mich.

MICH. Barred Rocks—EGGS FROM STRAIN with records to 200 eggs a year; \$2 per 15. Delivered by parcel pogt, prepaid. Circular free. FRED ASTLING, Constantine, Mich.

Buff Leghorns New is the time to place your order for next years stock.
Dr. WILLIAM SMITH, Petersburg, Mich.



FOR SALE throughbred Barred Rock cockerels from 200 egg strain stock, address H.B. PROCTOR, Grand Haven, Mich.

BREEDING COCKERELS

Bred-to-lay S. C. White Leghorn and Barred Rocks. Would advice ordering early. Price reasonable. Write us your wants. Sunnybrook Poultry Farms, Hillsdale, Mich.

Fowlers Buff Rocks Booking orders \$4 for 30; \$5.50 for 50; \$8.00 for 100.

B. B. FOWLER,

Hartford, Mich.

Pine Crest White Orpington greatest egg producers—hens and young stock, buy now for next winter. Mrs. WILLIS HOUGH, Pine Crest, Royal Oak, Mich.

Rhode Island Reds
Both combs. No stock for sale until December.
INTERLAKES FARM. Box 39, Lawrence, Mich.

Rose Comb Br. Leghorn cockerels \$1.00 each.
White Pekin Ducks \$2.00 each.
Mrs. CLAUDIA BETTS,
Hillsdale, Mich.

CILVER, Golden and White Wyandottes, good breed ling stock after Oct. 1st, fine lot of cockerels \$3 to \$ each. C. W. Browning, R. 2, Portland, Mich

each. C. W. Browning, R. 2, Portland, Mich.

CLANT Bronze Turkeys. Big boned young thoroot breds. Booking orders at early fall prices. Buy early, save money. N. Evalyn Ramsdell, Ionia, Mich.

Dogs

Scotch Collie Pups For Sale. Pure bred stock, prices reasonable. O. E. Hawley. R. 3, Ludirgton, Mich.

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CATTLE.

Wildwood Farms

Breeders of Best Strains of **Aberdeen Angus Cattle** and Duroc Jersey Hogs

Several young bull calves on hand, three of which are of serviceable age, out of Black Monarch III, three times Grand Champion, Michigan State Fair. Also several AI Brood sows. Will be glad to correspond with you by letter regarding Write

SIDNEY SMITH, Supt. Wildwood Farms, Orion, Michigan W. E. SCRIPPS, Proprietor.

WOODCOTE ANGUS
TROJAN-ERIOAS & BLACKBIRDS (BLACKAPS)
only. The most fashionable strains of the breed,
Great care given to matings and pedigrees. Every animal BRED IN THE PURPLE. Breeders and feeders of many INTERNATIONAL WINNERS.
WOODCOTE STOCK FARM Ionia, Mich.

Cloverly Angus Good quality bulls of serviceable age and younger. Inspection invited. Geo. Hathaway and Son, Ovid, Mich.

GUERNSEYS

If you want to increase your dairy profits you need to know about the cows whose average production, under tests supervised by State Agricultural Colleges, is three times as great as the average of all dairy cows in the United States. Ask for "The Story of the Guernsey."

THE AMERICAN GUERNSEY CATTLE CLUB, Box I, Petersboro, N. H

GUERNSEYS must reduce herd, so offer a few choice females of Glenwood breeding also bulls, all stock of A. R. breeding, herd tuberculin tested, T. V. HICKS,

Guernseys 45 Registered head, all the tested. Nora's heads our herd, 19 of his half sisters sold averaging \$1500 each. His bull calves are booked ahead at reasonable prices. Avondale Stock Farm, Wayne, Mich.

GUERNSEYS-REGISTERED
Containing blood of world champions.
HICKS' GUERNSEY FARM, Saginaw, W.S. Mich

Registered Guernseys— that last heifer was sold in first issue, went to Ohio. Another just as good, will freshen this fall-30 will buy her—she is worth more. 4 years old. Right in every way.

J. M. WILLIAMS.

No. Adams, Mich.

For Sale Guernseys: 15 high grade cows and heifers. Reg. May Rose bull 4 mo. old and reg. cows, tuberculin tested. GILMORE BROS. Camden, Mich.

For Sale Entire herd of Registered Guernsey JOHN EBELS, B. 2, Holland, Mich.



Four Weeks Old Tasted Milk Twice Grew to be a "WONDER" on

atchford

Sell your milk. Raise big, healthy calves on Blatchford's Calf Meal at 1-4 cost of milk. Make 2 profits instead of 1. Send for Pamphlet "How to Raise the Largest Calves' at the Smallest Cost." Blatchford Calf Meal Co.-Dept 4817 - Waukegan, Ill.

A Good Note accepted in payment of finely bred reg of the best, and at prices within reach of all. Will GEO. D. OLARKE, Vassar, Mich

Always Have Holsteins To Sell

If wanting Registered cattle write me your wants before placing your order elsewhere. L. E. CONNELL, Fayette, Ohio

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A Federation of Interests Holsteins: From a herd of 50 Holsteins headed by Bull King Zerma Alcartra Pontiac, son of King is Pontiac Alcarta, the \$50,000 Bull, we offer a r

Every animal guaranteed.

BLOOMINGDALE FARMS, Bloomingdale, Mich.

CLUNY STOCK FARM

100--REGISTERED HOLSTEINS--100
When you need a herd sire remember that we have one of the best herds in Michigan, kept under strict sanitary conditions. Every individual over 6 mos. old regularly tuberculin tested. We have size, quality, and production records backed by the best strains of breeding.

Write us your wants.

R. BRUCE McPHERSON, Howell, Mich.

OAK Leaf Farm. Herd sire Lenawee Pontiac Calamity King offer Registered Holstein bull calves from A. R. O. cows and the above sire whose dam holds the milk and butter record in the state of Ind. 7 days milk 786.3, butter \$2.51-315 days milk 23782.3, butter 928.75. ter 926,775. E. H. GEARHART & SON, R. 4, Marcellus, Mich.

Dust, Bacteria, Bad Odors and Flavors

(Continued from page 323).

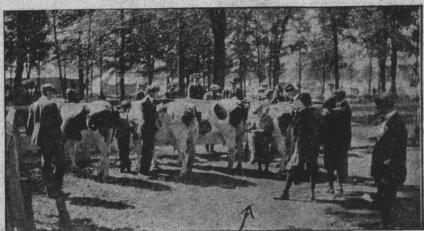
farm. No matter how well all other first importance, cooling is next. requirements are met, if the cows producing the milk are not in good health siderable difficulty in the work of trac-

milk in the dairy rooms are a prolific first necessary to determine whether source of contamination. Unclean or not such an odor or flavor is presmethods of milking and the handling ent when the milk leaves the cow or of the products afford opportunities develops later. If any particular cow for the pollution of the milk by dis- is giving milk which is tainted it is ease organisms, as well as dust and not due to bacteria, but to other dirt that adheres to the hands and causes. clothes of the milker. Here is where

little consequence to the consumer, the trouble is invariably with the On the other hand, cows that have morning's milk, which goes into the local diseases of the udder may give cans without being properly cooled. In milk which at times is contaminated the fresh milk the bacterial growth with the bacteria which cause this soon exceeds that in the older milk disease. There is many a proof that that has been properly cooled. Coolsuch germs can live and pass into the ing the milk does not kill any of the body of the user and cause the same disease-producing bacteria or the lacdisease as the cow was afficted with. tice acid bacteria, so that it cannot This shows us that tuberculosis of the take the place of cleanliness in the proudder may readily be transmitted to duction of milk. All of the bacteria other animals. Milk from unhealthy present in cold milk become active as cows should never be used by human soon as the temperature conditions beings, or to feed young stock on the become favorable. Cleanliness is of

Dairymen frequently experience coning the source of an unnatural odor or The milkers and handlers of the flavor in milk. In such cases it is

If the milk from any number of



Michigan Boys Judging Cattle at the State Fair.

such diseases as typhoid, diphtheria cows shows the taint the feed or somewithout number prove this point with quently remove the trouble. their deadly results.

phoid germs are in well-water they for the first and calves, and young bulls now ready for service.

If you want Holsteins of any class, will you please write to us for descriptions and photographs?

phoid germs are in well-water they for the first and calves, and young bulls now ready will have a chance to contaminate any one of the most prolific causes of milk that goes into utensils after they trouble during the summer months is have been washed in such water. Nu-that of old, sour strainer cloths which phoid germs are in well-wate

more the bacterial growth will be re- dust. tarded. Milk that is promptly reduced in temperature to forty degrees F, and held at that temperature until ready for use will keep for a long time.

When the milk is shipped to the city produce heavy losses.

As soon as we find a well-balanced ration that produces good results, we should stick to it; for changes in the line of feeding are often expensive and produce heavy losses.

and scarlet fever get into milk. . Milk thing else which the cattle have found as it comes from the healthy cow does in the pasture is the cause. Carrots, not contain these bacteria. They come turnips, wild onions, ragweeds, cabfrom the outside after the milk is bages, off-quality grains and other drawn from the cow. Any person who strongly flavored substances will cause has been in attendance on a sick per-tainted milk. Certain food stuffs for son cannot work among the cows or cows not ordinarily considered likely in the dairy room without being a to produce bad-tasting milk will at source of danger to all who use the times do so. Where the flavor is milk from such a dairy. Typhoid, diph- thought to have been caused by sometheria and scarlet fever outbreaks thing in the ration a change will fre-

Cows that are kept in the pasture In the care of dairy utensils there is will keep reasonably clean, however, if still further chance of contamination. the pasture is so situated that the cows This trouble is not from bacteria that have access to muddy pools or stagcommonly adhere to these utensils, but nant ponds they will often stand in the from those introduced in handling and water up to their knees, fighting flies washing. The washing and care of and plastering themselves with mud. dairy utensils is one of the most ex- This mud dries quickly and readily acting from the standpoint of cleanli- falls into the milk pail. It is one of ness and the quality of water used. A the most objectionable forms of dirt supply of bacteria-laden water which because it quickly finds its way through will leave some of the bacteria on the the bottom of the strainer and settles utensils is an insidious source of dan- in the pails, cans and bottles. It is ger to those who use the milk. When also loaded with dangerous bacterial the milk goes into the utensils there life which have a deleterious effect upis a fresh supply of food for these bac- on the milk and its products. Cows teria and they begin to grow and mul- that are plastered with this kind of tiply with disastrous results. If ty- mud should be thoroughly cleaned be-

merous other kinds of bacteria, such are rinsed in lukewarm water and as those that cause ropy, colored and hung up to dry. These cloths should slimy milk are frequently in well-water be put in boiling water and thoroughly that is used in washing dairy utensils. cleansed before being used for another Cooling the milk immediately after milking. Ordinary wire strainers are it is drawn from the cow will retard worse than none at all. They are very the development of bacteria and the difficult to keep clean and are almost more the temperature is lowered the worthless for removing fine dirt and

Oct 24 1918 - Thursday - Oct 24 1918 For Sale Choice Jersey bull registered, age 2 lock 24 1918 For

Howell Sales Co. of Livingston County

5th ANNUAL SALE

At Sale Pavilion, Howell, Mich.

90 head of Registered Holsteins 90

Mostly fresh cows or cows soon to freshen, a few good heifers and calves, 3 good bulls. We will sell: A 27.64 lb. Jr. four yr. old; A 26.78 lb. three year old and her two year old daughter sired by Beauty Walker Pietertje Prince. A 24.78 lb. daughter of Vale Elzevere De Kol 2nd; A 24.90 lb. Grand daughter of Johanna Korndyke De Kol. Others with good records. Reference Sires; A son of a 45 lb. cow and sired by a 32 lb. son of Rag Apple Korndyke 8th, a son of King of the Blacks and Whites and a 28 lb. cow. A son of King of the Pontiacs and a 31 lb. cow; A son of King Segis Champion Mabel; A son of a 32 lb. cow; A son of 29 lb. Granddaughter of Pontiac Korndyke, All cattle are consigned by Livingston county breeders and are tuberculin tested either by federal veterinary or state approved vet.

Auctioneers: Mack, Perry. Send For Catalog JAY B. TOOLEY, Secy.

"THE OCTOBER QUALITY SALE" 100--Choice Registered Holsteins--100 SALES PAVILION

HOWELL, MICHIGAN, OCTOBER 30th 1918

A quality sale, including 97 females and 3 bulls, carefully selected individuals free from blemishes. Every animal backed by strictest guarantees.

TUBERCULIN-TESTED BY FEDERAL AUTHORITY AND SOLD SUBJECT TO SIXTY-DAY RETEST.

A rare opportunity to select healthy animals for foundation purposes.

Michigan Breeders' Consignment Sale Co. H.W. NORTON Jr. Mgr., East Lansing, Mich. SEND FOR CATALOG



15,000to 30,000 Pounds of Milk

Seventy - seven cows have been admitted to the Holstein Friesian Advanced Register that have produced 7,000 to 15,000 quarts of milk in periods of ten months to a year. The capacity of the Holstein cow for milk is a matter of extraordinary interest.

If interested in HOLSTEIN CATTLE

Send for our booklets-they contain much valuable information.

HOLSTEIN - FRIESIAN ASSOCIATION OF AMERICA, Box 164, Brattlebore, Vt.

Winn--Wood Herd

Registered Holsteins

Sire in Service Flint Maplecrest Boy

Who is bred for real production his sire Maplecrest Korndyke Hengerveld is one of the best bred long distance bulls in the world. He or his dam are brother or sister to he world. He or his dam are brother in the world have been and ten more above 1,200 lbs. of butter in the year and ten more above 1,000 lbs. in a butter in the world have been and ten more above 1,000 lbs. in a 10,47 lbs. of butter in it day, 12 lbs. in 30 days. Butter fat test 5.27. In there a reason why Flint Maplecrest Boy is not one of Michigans greatest young sires. None of his females are for sale until after we test hem. But we have 10 of his bull calves from 2 to 9 months old, with A. R. O. dams which we now offer for sale at prices any dairy farmer can afford to pay. Just tell us the kind of a bull you want.

JOHN H. WINN, Inc.

The Pontiac Herd

"Where the Champions come from"

Offer Bull Calves sired by sons of Pontiac Korndyke, Hengerveld DeKol, Pontiac Dutchland.os Admiral Walker Pietertie. Do you want a Pontiac in your herd? Pontiac State Hospital, Pontiac, Mich.

"Top-Notch

The young bulls we have for sale are backed up by many generations of large producers. Buy one of these bulls, and give your herd a "push". Full descriptions, prices, etc. on request.

McPherson Farms Co., Howell, Mich.

he Traverse Herd

Parham's Pedigree Stock Farm offers Reg. Hol-stein cattle, Chester White Swine, extra bargins in calves and fall pigs. Bulls haff price. R. B. PARHAM. Bronson, Mich.

\$50 Liberty Bond gets I mo. old gdson of Maplecrest Korn. Heng.dams are granddaughters of Pontiac Maid 30.21 lb. Heifers same age breeding \$150 terms Herd free tuber. M. L. McLaulin, Redford, Mich.

Want Yearly Records?

Our new sire has four sisters whose semi-official records are 677, 742, 913 and 946 pounds of butter in one year respectively at 2 to 3 years of age. His dam is a daughter of Friend Hengerveld De Kol Butter Boy, four of whose daughters have records over 1000 pounds and she is also a granddaughter of Pontiac Aaggie Korndyke, with six daughters above 1900 pounds of butter in one year.

Peaceland Stock Farm, Three Rivers, Mich. G. L. Brody, Owner Port Huron, Mich. Charles Peters, Herdsman

DO YOU WANT

A Holstein Bull calf ready for service with exceptional breeding? Write

HILLCREST FARM, Kalamazoo, Mich.

For Sale Registered Holstein Cow 6 years old kind. Frest Sept. 24 with heifer eaf sired by grandson of King Fayne Segls, (Sire of 50 lb. cow) Price of both \$250. Also 2 heifers sired by above bull soon be 2 years old, good size and color. Bred to 30 lb. bull. Dams good A. R. O. cows, write for prices.

WALNUT STOCK FARMS,
R. 1. L. J. Benjamin & Son, Prop.

HOLSTEINS of quality. Bull calves from dams with records high as 31 lbs. in 7 days. Also colite pupples E. A. HAHDY. Rochester, Mich

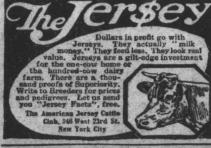
For Sale Cheap. 2 Holstein bull calves, born Jan. 25 and Mar. 22, both from 29.42 lb. sire. One from 23.80 lb. 4 years old dam, also a few femals A. F. LOOMIS. Owosso, Mich.

REG. Holstein: Bull calf born Dec. 26,1917, a splend-lid individual, straight, deep bodied % white. 7 nearest dams have A. R. O. records, that average butter 7 days 22,21 lbs. milk 467 lbs. W. B. Reader, Howell, Mich.

Registered Holsteins. To make room for winter, I am offering a few fresh acows or bred heifers to freshen soon.

OLARE W. WILSON, E. 4, Mason, Mich.





Lillie Farmstead Jersey Cattle. Several heifers he freshen next fall. Also a few heifer and bull yes of choice breeding. Colon C. Lillie, Cooperaville, b

Reason of sale, related to owner's herd. SEYBURN FARM, R. 7, Pontiac, Mich., Tel.710F4.

JERSEY BULLS Ready for service FOR SALE WATERMAN & WATERMAN, Ann Arbor, Mich.

Maple Lane R.of M.Jersey Herd. Bulls, bull calves Mand heifer calves sired by one of the best grandsons of Pogis 98th of Hood Farm and out of R. of M. dams. IRVIN FOX. Allegan, Mich.

For Sale Registered Jersey Cattle tooth sex. Smith & Parker, R. 4. Howell, Mich

THE Wildwood Jersey Farm offers for sale choice bull calves for fall service from R. of M. daughters of Majesty's Wonder by Majesty's Oxford Fox. Herd tuberculine tested. When look ing for a sire to head your herd, get a Majesty. Alvin Baldwin, Capac, Mich.

Hillside Farm Jerseys, offer 3 yearling bulls, backed by tested dams, and sired by a double grandson of Royal Majesty, first prize & junior champion at Mich. State Fair,good individuals. C.& O. Deake, Ypsilanci, Mich

Meridale Interested Owl No.111311 heads my herd builcalves from this great sire and out of R. of M dams for sale. C. B. WEHNER, Allegan, Mich

HEREFORDS

3 Extra nice yearling heifers. 3 extra nice heifer calves old enough to wean,4 extra nice bulls from to 12morold not related to heifers. Prince Donald, Farmer and Perfection Fairfax breeding. If interested come and see them.

ALLEN BROS., Paw Paw, Mich.

Herefords Polled and Horned blood lines fection and Prime Lad 9th breeding. Prices reas nable. COLE & GARDNER, Hudson, Mich.

SHORTHORNS For Beef and Milk.

Registered bulls, cows and heifers-Good Scotch and Scotch-Topped for sale. In prime-condition. Modern sanitary equipment. Farm 10 minutes from N. Y. O. depot, I hour from Toledo, Ohio. Automobile meets all trains. Write

BIDWELL STOCK FARM, Box B, Tecumseh, Mich.

Richland Farm

Shorthorns

Sires in Service: Fair Acres Goods and IMP.
Lorne-Michigans Grand Champion Bull. Attend
the Shorthorn Sale at Lansing Oct. 9th. We invite you to inspect the cows and heifers we have
listed in this sale.

C. H. PRESCOTT & SON,
Herds at Prescott, Mich. Office at Tawas City, Mich.

Francisco Farm Shorthorns We maintain one of Michigan's good herds of Scotch and Scotch Topped cattle. They are well bred, prop-erly handled and price reasonable. Come and see; we like to show them. P. P. POPE. . . . Mt. Pleasant, Mich.

The Kent Co. Shorthorn Breeders Association

are offering some choice animarices. Write your wants. L. H. LEONARD, Sec., Caledonia, Mich SHORTHORNS

Cows, helfers & young bulls for sale at farmers prices; herd catalog mailed free. Horrieton Farms, Hart, Mich.

Shorthorn Cattle of both Sex for Sale W. W. KNAPP. Howell. Michigan.

Shorthorn Seven Scotch and Scotch Tepped bulls for sale. Price reasonable.
W. B. McQUILLAN, R. 7, Howell, Mich.

Shorthorn Bulls ready for service of the choicest breeding. Write me you wants.
A. A. PATTULLO, R. 4, Deckerville, Mich.

For Sale Shorthorns of Quality Scotch and Scotch Topped descendents of Archers Hope, Avondale, Maxwalton Sulton and White Hall Sulton by the Oscola Co. Shorthorn Breeders Ass. JOHN SCHMIDT, Sec. Reed City, Mich.

Six Registered Shorthorn bulls for sale. Prices right. E. R. HAWLEY & SONS, R. 3, Stockbridge, Mich.

GUERNSEY BULLS

Eighteen months old and younger, Grandsons of Gold-en Noble II; free from disease. Guaranteed in every perfecular and at farmers' prices. J. L. SNYDER, East Lansing, Mich.

FOR SALE 3 car loads of dehorned 2 yr. old grade Durham stears, BANGLER & Mc GINNESS, Lake City, Mich.

For Sale 1 Scotch helfer coming 3 years old. with the best of Scotch heeding. Also some very nice Dairy bred Shorthorns of both sex.

Durices. Choice spring pigs out of selected sows and being divided by our best herd boars. They are of the big type, strong boned, smooth and of excellent quality and include some of the most popular blood lines such a Orion Cherry King, Top Col. Defender, Brookwater etc Prices reasonable. The Jennings Farms, Balley, Mich.

DUROC BOARS size and grown try, Weigh 200 lbs. not fat.

NEWTON BARNHART,

St. Johns, Mich.

DUROC Jersey Spring boars for sale. Good breeding and large bone. Prices and descriptions on request. J. D. GRANE & SON, Plainwell, Mich. Ourse Jersey Spring boars sired by Orion. Cherry Ring Cal. Write for prices and description. W. C. TAYLOR, Milan, Mich.

DUROCS April and May pigs of both bred boar. For prices etc., write wells Parish & 80NS.

Allendale, Mich.

DUROC JERSEYS
E. D. HEYDENBERK. Wayland, Mich

CAREY U. EDMONDS, Hastings Mich.

Duroc Jerseys Big heavy boned spring boars winners at State and County Fairs. Place order early, R. 1. Monroe, Mich.

For Sale Pure Duroc-Jersey pigs, either sex, long, big bone, prolific kind, ready for shipment about Octa 15th, \$10.00 each, crated f. o. b. Bankers, B. E. KIES, Hillsdale, Mich.

Crandell's Big Type O. I. C's
Champion herd everywhere shown in 1917. Herd
headed by five champion boars. Our sows won
Senior, Junior and Grand Champion prizes at
Illinois, Missouri, Ohio and Michigan 1917.
Special prices on all spring pigs. Get our catalog it is free.
Crandell's Prize Hogs,

Cass City, Mich.



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hop from my great head is every community where I am not already represented by these fine early developers—ready for market at my months old, Write for my plan—"More Money from Hegs."

G. S. BENJAMIN, R. F. D. 10, Portland, Michigan

Chesters May boars. Sept pigs in pairs or of the best blood lines obtainable.

F. W. ALEXANDER,

Vassar, Mich.

Chester White Boars and sows, spring farrow, Polled Durham calves, Shropshires, good ones. FRANK BARTLETT. Dryden, Mich.

LAST fall gilts all sold, have a good lot of last spring pigs from 3 sires good growthy stock. Farm ½ mile west of depot. Citizens Phone 124.

Nashville, Mich.

BRED GILTS and SERVICEABLE BOARS C. J. CARL JEWETT, Mason, Mich.

O. I. C.'s a few choice Apr. and May pigs either sex and 4 reg. Holstein heifers.

O. I. C. & Chester White Swine

Strictly Big Type with QUALITY. Have a few spring pigs either sex for sale. They are of the right stamp, good enough to be shiped C. O. D. NEWMAN'S STOCK FARM, R. I. Marlette, Mich.

O. I. C. spring pigs for sale. I ship C. O. D. and guarantee to please.
R. 3, Mason, Mich.

L. S. P. C. all sold out, except the largest farrow.

H. O. SWARTZ, Shoolcraft, Mich.

Big type P. C. Big boned fellows fron Iowas greates herds, special prices on spring boars and choice bred gilts. E. J. MATHEWSON, Burr Oak, Mich

Big Type Poland Chinas. Spring pigs for sale Healthy and growthy. From large litters. Prices right. L. W. Barnes and Son. Byron, Mich L ARGE Type P. C. Just 5 choice summer gilts bred for July and August farrow. Come and see them W. J. HAGELSHAW. - Augusta, Mich.

Big Type P. C. Spring Boars for sale, also Hamp-A. A. WOOD & SON, Saline, Mich.

Large Type P. C.

Bred gilts and boars all sold nothing to offer at present. W. E. LIVINGSTON, Parma, Mich.

Large type P. C. fall gilts up to 365 lbs. ready to ship bred for Aug. and Sept. farrow. Fall sale Nov. 29. Wm. J. CLARKE, R. 7, Mason, Mich.

FOR 25 YEARS

This establishment has been head quarters for Big Type Poland Chinas. We have a nice lot of boars and sows of strictly big type breeding at very low price. Let me know what you want. Bell phone. JNO. C. BUTLER. - Portland, Mich.

OLD FASHIONED Spotted Hogs Spring Gilts and Fall Gilts bred or unbred. reasonable.

J. M. WILLIAMS, No. Adams, Mich

Pedigreed Big type Poland-China pigs, Cerlificates of Registery, reasonable prices.

LONE CEDAR FARM, R. 2. Pontiac, Mich.

Pig type P. C. Boar one yearling. Large and fine every way 2 fall yearling 10 Apr. boars. Write for prices. Satisfaction guaranteed. R.W.Mills, Saline, Mich.

Big type P. C. Boars all ages the kind that make good, meet me at the fairs.
E. R. LEONARD, --- St. Louis, Mich.

Yorkshire Gilts

(Pigs that are Pigs)
For fall or Winter Breeding. Address
OAKOROFT, R. 7, Pontiac, Mich.

Registered Hampshire spring boars now ready at a bargain. Bred glits in Dec.

JOHN W. SNYDER, B. 4, St. Johns, Mich.

SHEEP

lampshire shire and Oxfords, either sex, send for cir-

cular and prices.
KOPE KON FARMS, Kinderhook, Mich.

Hampshires am offering for sale 10 yearling Rams also 5 ram lambs Rockford, Mich.

"STRAIGHT BROOK STOCK FARM" Hamspires. I have 22 yearlings and 20 ram lambs for sale. Best of breeding. J.B.Welch, R.1, Ionia, Mich. Some Good Breeding Ewes and registered RAMS for sale.
Barnard Sheep Ranch. R. 5, Clare, Mich.

Additional Stock Ads. on Page 343



SECOND EDITION.

The markets in this edition were revised and corrected on Thursday after-noon, October 10.

WHEAT.

The demand for wheat is well sustained. The grain is now being freely taken by millers and exporters. Flour is also in good demand. The visible supply shows an increase of 7,285,000 bushels for the United States. A year bushels for the United States. A year ago No. 2 red wheat sold on the local market at \$2.17 per bushel. Present prices here are unchanged from last

CORN.

Further declines in corn have followed the appeal of the Central Powers for peace. The bearish attitude has also been supported by good weather and heavy receipts from farmers. The movement to primary markets shows some increase. Consumption, however is healthy, there being a decrease in the visible supply of 8,000 bushels. One year ago No. 2 corn sold in De-troit at \$1.99 per bushel. The present prices here are:

 No. 3 corn
 \$1.25

 No. 3 yellow
 1.35

 No. 4 yellow
 1.25

 yellow..... 1.15 No. 5 No. 3 white 1.35 Chicago prices show a wider decline

than in Detroit, with No. 2 yellow now quoted at \$1.50; No. 3 yellow at \$1.35 @1.38; November corn \$1.14%.

OATS.

Oat prices have been pulled down by the decline in corn. The average yield of this grain in Michigan as shown by returns of threshermen is 40.38 bushels per acre. This grain is in good demand from cereal interests, millers and for eastern shipment. A year ago the local price for standard oats was 62c. Present prices here are:

RYE.

Rye has come in for a little more attention the past week, with the local price advance 1c, or \$1.62 per bushel for Cash No. 2 at Detroit. The visible supply has increased 894,000 bushels during the week.

BARLEY.

Very little of this grain is reaching very little of this grain is reaching the market, especially that grown in Michigan, as practically all of it is wanted for consumption in the districts where grown. Yields have benerally been good in northern states. At Detroit the latest sales were by sample at \$1.98@2.10 per cwt. BEANS.

The yield of beans in this state is not going to be as large as was earlier estimated. According to the threshermen's returns to the Secretary of State the average of the acreage so far threshed is 9.38 bushels. As a result, Detroit prices have advanced to a basis of \$9.25 per cwt. According to reports from various sections of the state, farmers are receiving all the way from \$7@8.50 per cwt. Reports from the east show that the trade is improving a little, although quotations remain unchanged. At New York the best pea beans bring \$11@11.25, and common to fair \$10@10.75 per cwt. The Chicago market is rather quiet, with the trade confined to navy beans, which are quoted at \$10.50@11 for the choice hand-picked Michigan stock. The yield of beans in this state is

SEEDS.

There is an active demand for seeds, and prices are holding steady as follows: Prime red clover \$22.50; alsike \$18.25; timothy seed \$5.

The shortage of the hay crop is naking it difficult for buyers to have things their way in the market here or elsewhere. Prices remain firm and those wanting the feed are taking it despite the high quotations. The local

prices are:
No. 1 timothy...\$29.50@30.00
Standard timothy 28.50@29.00
No. 1 mixed ... 24.50@25.00
No. 1 clover ... 23.50@24.00

FEEDS.

Prices for mill feeds are higher than last week as follows: Bran \$35@35.50;

POTATOES.

The peak movement of potatoes has The peak movement of potatoes has passed and daily shipments now run between 800 and 900 cars. However, the movement in Michigan is gradually increasing, although the total number of cars started in seven other states exceeded those rolling in this state on Tuesday. In the majority of the northern markets liberal supplies are reported. While prices are tendber of cars started in seven other states exceeded those rolling in this states exceeded those rolling in this state on Tuesday. In the majority of the northern markets liberal supplies are reported. While prices are tending to lower levels, the change the past grades. At Benton Harbor, Mich., the week has been small. U. S. Grade No. leading winter varieties are bringing 1, round whites are selling in Detroit up to \$5.50 per bbl. Much of the marketing this year is being done in grade brings \$2.50; at Buffalo \$2.35@2.40 (sack-

middlings \$37@37.50; coarse corn meal ed); at Cincinnati \$2.50; at Indianap- @2 per bushel, orchard run with culls \$60; cracked corn \$61; chop feed \$45@ olis \$1.85. The federal crop report for removed.

October shows a gain from 384,529,000 bushels since

DOTATORS

BUTTER. September 1. Michigan's crop has increased from 28,856,000 bushels to 30,-287,000 bushels according to the same authority.

APPLES.

A steadler feeling prevails in the butter trade, although the market is on a lower basis than a week ago. At Detroit fresh creamery extras are now bringing 55½c; do firsts 55c. At Chicago the range is from 51@56c, and at New York 56½@59½c. The Philadelphia market quotes extra creameries at 59c and fancy prints at 64@66c.

CHEESE.

The trend of prices in the cheese market is upward with production below normal and the buying element showing no signs of slowing up on the demand. Daisies now bring 34c at Detroit, 36¾ @37c at Chicago. Jobbers pay 33@33½c for fresh specials, 32½c for average run in New York City. The Philadelphia market is firm at 31@33c.

EGGS.

Although consumption is being restricted somewhat by high prices, the receipts are not adequate to prevent further advances. Current offerings from Michigan sell to jobbers in Detroit at 47c, with firsts in new cases at 48½c; storage packed firsts at 42 @43½c. At Chicago the trade is paying 47@48c for firsts, 45@46½c for ordinary firsts. The New York trade rules steady, with nearby western goods quoted at 50@75c. Philadelphia market is firm at \$15.90@16.20 per case for western extra firsts and \$15.30 @15.60 for do. firsts. @15.60 for do. firsts.

DETROIT CITY MARKET

Farmers continue to do a big business on the municipal markets. Potatoes bring \$1.50@1.65; onions \$1.15@1.50; tomatoes \$50c@\$1.50; cabbage 60c; parsnips 90c@\$1; pears \$1.75@2; apples \$1.25@2; eggs 68c.

7.50@ 8.00 9.00@10.00 DRAFT ADVISERS NAMED FOR MICHIGAN.

MICHIGAN.

They Are to Work with the District Boards and Present Needs for Skilled Farm Workers.

The Department of Agriculture today announced the appointment of the following men to act with the district draft boards of Michigan as advisers regarding agricultural needs:

C. L. Brody, Port Huron, Mich.—Agricultural adviser to district board (eastern) Division No. 2, with headquarters at 2130 Penobscot Building, Detroit, Mich.

A. B. Cook, Owosso, Mich.—Agricultural adviser to district board (eastern), Division No. 3, with headquarters in the Federal Building, Lansing, Mich.—T. F. Marston, Bay City, Mich.—Agricultural adviser to district board (eastern), Division No. 4, with headquarters in Eastern City Hall, Bay City, Mich.

Lames J. Jakway Benton Harbor.

quarters in Eastern City Hall, Bay City, Mich.

James J. Jakway, Benton Harbor, Mich.—Agricultural adviser to district board (western), Division No. 1, with headquarters at 406 Peck Building, Kalamazoo, Mich.

R. D. Graham, Grand Rapids, Mich.—Agricultural adviser to district board (western), Division No. 2, with headquarters in the City Hall, Grand Rapids, Mich.

quarters in the City Hall, Grand Rapids, Mich.
F. H. Vandeboem, Marquette, Mich.
—Agricultural adviser to district board (western), Division No. 3, with head-quarters at the Michigan College of Mines, Houghton, Mich.

The agricultural advisers are not to be members of the district boards, but are to furnish to the boards facts relative to farm-labor requirements, not

tive to farm-labor requirements, not only of their own districts but of the entire country. Such information will be supplied to the advisers by the De-partment of Agriculture. The advisers also may concern themselves with individual cases before the district board. County agents of the Department of Agriculture have been supplied with questionairres to be sent out for the purpose of securing facts about the farm-labor needs in the counties.

The Detroit Milk Commission, at its meeting on September 27, fixed the price of milk in the country at \$3.40 per one hundred pounds for the month of October. For the month of November, the price in the country will be \$3.55 per one hundred pounds. This applies to milk in the first freight zone, testing 3.5 per cent.

Live Stock Market Service

Reports for Thursday, October 10th **BUFFALO.** DETROIT Cattle.

Our market here today was taking pigs at \$18.50; other grades \$10; lambs \$17; calves up to \$19.25. No cattle were offered on today's market.

CHICAGO.

Cattle.

Receipts 23,000. Market opening is very slow; lower on all except the best corn-fed steers.

Good to prime choice steers \$15@ 19.60; common and medium butchers \$9.75@15; heifers \$7.35@13.75; cows \$7.60@13.25; bologna bulls \$7.25@13.50; canners and cutters \$6.60@7.50; stockers and feeders, good \$10.50@13.75; do, medium \$7.50@10.50.

Hogs.

Receipts 27,000. Market is 15@25c

Tops \$18.60; heavy \$18.25@18.50; mixed and light \$18.10@18.60; packers' hogs \$17.25@17.50; medium and heavy \$17.35@18; light bacon hogs \$17.75@ 18.25; pigs, good to choice \$16.25@ 17.25; roughs \$16.75@17.20.

Sheep and Lambs.

Receipts 32,000. Market slow and

Receipts 32,000. Market slow and steady.
Choice to prime lambs \$16@16.50; medium and good lambs \$13.75@16; culls \$8@12.50; medium, good and choice feeders \$13@14.50; choice yearlings \$12.25@12.75; medium and good yearlings \$11.25@12.25; wethers, medium and good \$10.25@11.50.

Receipts 3,099. Market closed steady. All grades 50c higher than last week's close. Best heavy steers\$12.00@14.25 Best handy wt bu strs... 10.00@11.00 Mixed steers and heifers 9.50@10.00 Handy light butchers.... 8.50@ 9.00 Light butchers Best cows 9.00@ 7.50@ 6.50@ Cutters Canners Best heavy bulls Bologna bulls Stock bulls 6.00@ 9.00@ 8.00@ 7.50@ 8.00@ Veal Calves. Receipts 1,043. Market steady.

Best\$18.00@18.50 Others 7.00@14.00 Sheep and Lambs.

Receipts 4,797. Market 25c higher than Wednesday for lambs; sheep are

Hogs.
Receipts 8,003. Market 15@25c lower than yesterday. Hogs \$17.50@17.65; mixed hogs \$17.75@17.85.

Reports for Wednesday, October 9th

BUFFALO.

Cattle.

Receipts five cars; market is 25c higher; prime heavy steers \$15@16; best shipping steers \$13@14; medium shipping steers \$11@12; best native yearlings \$9.50@10; light native yearlings, good quality \$13@14; best handy steers \$11.50@12.50; fair to good kinds \$10.50@11; handy steers and heifers, mixed \$9.50@10.50; western heifers at \$9.50@10.75; state heifers \$7.50@8.50; best fat cows \$10@11; butcher cows \$9.50@10.75; state heifers \$7.50@8.50; best fat cows \$10@11; butcher cows \$7.50@9; cutters \$6@6.50; canners at \$4.50@5.75; fancy bulls \$9@10.50; butcher bulls \$8@9; common bulls \$6@7; best feeders \$9@11; medium do. \$8.50@10; stockers \$7.50@8.50; light common \$6.50@7; best milkers and springers \$100@150; mediums \$75@90; common \$50@70 common \$50@70.

Hogs.

Receipts 10 cars; strong; heavy and yorkers \$18.75@18.85; pigs \$18.25.

Sheep and Lambs.

Receitps two cars. Market is steady; lambs at \$16.50@16.75; yearlings \$11 @12.50; wethers \$10.50@11; ewes \$9@10 ; calves at \$7@19.

off 15@25c for the week. The stocker and feeder trade is smaller than last week, and the poorer lots are irregularly lower, most stockers and feeders selling at \$9@12, with thin undesirable stockers going to killers at large declines. About 65,500 cattle have arrived on the market during three days, comparing with 53,147 for the same time last week, and supplies are again time last week, and supplies are again time last week, and supplies are again excessive. Common to prime native steers are quotable at \$10@19.60, with butcher cows and heifers at \$7.30@15, canners and cutters at \$6.25@7.25, range steers at \$10.50@17.50 and stockers and feeders at \$7.25@12.90. The best veal calves bring \$18.

Hogs Receipts for half of the week amount to 74,000 hogs, comparing with 66,270 for the same time last week. With estimated receipts of only 15,000 hogs today the market is steady to show the market is steady to about a dime lower, sales ranging at \$17.15@ 18.80, while most of the pigs are selling at \$15@17.25. Prime heavy barrows top the market, with the best light hogs selling at a discount of 10 cents or more.

Sheep and Lambs.

GROWING AND MARKETING POTA-TOES.

(Continued from page 326.)

crop so as to realize top market prices before shipments from a distance can come in and lower the prices. In such a locality one can frequently sell his crop at from seventy to eighty cents per bushel when growers in other localities are selling their crop for fifty cents per bushel.

During the past few years many growers in localities where the crop makes a good yield, but is not quite good enough for market are finding it profitable to grow seed potatoes for growers in other localities. Arrangements are made with a number of reliable growers in a locality to grow so many bushels or acres at a fixed price or a price a few cents above the general market. These potatoes must be grown from selected seed and the crop given good care from start to finish. Growers in several southern localities and also in some of the irrigated sections have their seed grown in this manner. It is an arrangement that works to the advantage of both grower and buyer and eliminates the selling problem for farmers who live outside of the more favored potatogrowing regions.

STATEMENT OF OWNERSHIP AND
MANAGEMENT OF THE MICHIGAN FARMER, PUBLISHED
WEEKLY AT DETROIT MICHIGAN, REQUIRED BY THE ACT OF
AUGUST 24, 1912.

Editor, I. R. Waterbury, Detroit, Managing Editor, M. J. Lawrence,

Managing Editor, M. J. Lawrence, Washington, D. C.
Business Manager, I. R. Waterbury, Detroit, Mich.
Publisher, The Lawrence Publishing Co, Detroit, Michigan.
Owners holding one per cent or more of total amount of stock:
M. J. Lawrence, Washington, D. C. Carrie J. Lawrence, Washington, D. C.

D. C.
P. T. Lawrence, New York City.
Estate of M. L. Lawrence, Cleve-

land, Ohio.
Citizens' Savings & Trust Co., Trustee, Cleveland, Ohio.
Nellie B. Lawrence, Guardian, Cleve-

Nellie B. Lawrence, Guardian, Cleveland, Ohio.

Mrs. G. B. Rogers, Cleveland, Ohio.
Lillian Cotton, Cleveland, Ohio.
E. D. Pope, Cleveland, Ohio.
R. M. McConville, Cleveland, Ohio.
Kate E. Munsell, Detroit, Mich.
F. H. Nance, Lakewood, Ohio.
Neff Laing, Philadelphia, Pa.
J. F. Cunningham, Lakewood, Ohio.
I. R. Waterbury, Detroit, Mich.
Known Bondholders, Mortgagees and Other Security Holders—None.
(Signed)

(Signed) I. R. WATERBURY, Business Manager.

Sworn to and subscribed before me this Thirtieth Day of September, 1918. CLARENCE E. HAMLIN. Notary Public.

TRACTOR

Specifications for 173 tractors, operated machines, plow information, etc., in 180-page Tractor

FIELD BOOK

Sent postpaid for 25 cents, stamps or coin. Get posted on ALL makes before you buy. FARM IMPLEMENT NEWS
795 Masonic Temple, CHICAGO

Mr. POULTRY FARMER:

We make a specialty of White Hennery Eggs and have created a profitable market for your eggs the year around. We pay the highest premium for your Hennery Whites—We remit saime day shipments arrive. Ship Often—Ship by Express

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Remember! We guarantee you satisfaction with every shipmens.

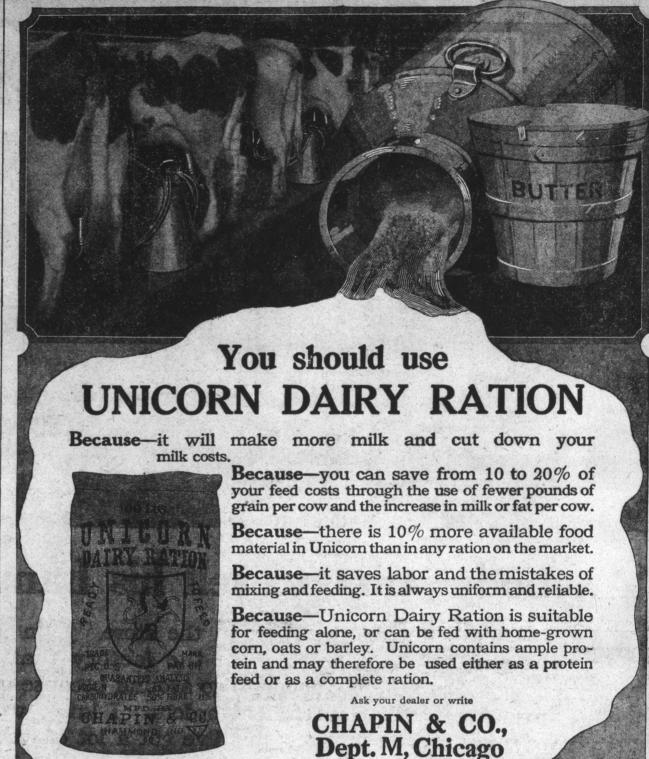
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We handle only on commission. No merchandise competition with your goods. Highest prices possible obtained on arrival, and you don't have to wait for your money.

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HAY Ship To The Old Reliable House Daniel McCaffrey's Sons, 623-625 Wabash Bldg. Pittsburgh Pa.





An Organization for Michigan Farmers

More than \$1,000,000.00 of business written the first year. This proves the demand for our Company.

More than \$120,000.00 of first real estate mortgages on deposit with the state treasurer which proves our responsibility.

Your liability can be protected by our reliability This is no time to take long chances. In these critical times "safety first" should be the watchword.

Cooperate with us and insure your livestock against death from accident and disease and thus save more than \$3,000,000.00 annually to the farmers of Michigan and to society.

Consult our local agent in your vicinity. MICHIGAN LIVE STOCK INSURANCE COMPANY Colon C. Lillie, Pres.
319 Widdicomb Blgd., Grand Rapids, Mich. Harmon J. Wells, Sec.-Treas. Graebner Bldg., Saginaw, W. S., Mich.

SHEEP

AUCTION SALE

of Reg. Shropshire, Wed. Oct.16 7 miles southwest of Lapeer. On account of my husbands death, am obliged to sell my entire flock of 120 Reg. Sheep. 66 head of ewes mostly young, 10 head of yearling rams, 24 head of ewe lambs, 25 head of Ram lambs, sired by my imported 2 yr, old Berry 163 Ram which also is included in sale. Will meet all A. M. Trains at Lapeer.

Mrs. CARRIE GIBSON, Lapeer, Mich.

Registered Shropshire yearling and ram lambs with best of breeding and size. Prices \$40 to \$60 also a few bred ewes at \$50. H. F. MOUSER. B. 6, Ithaca, Mich.

Shropshire Am offering 8 yearling rams now. Also 12 O. J. THOMPSON,

Shropshire Yearlings and ram Rockford, Mich Rock on Kope (S. P., ANDREWS.

Dansville, Mich,

Registered Shropshire yearling ewes and Registered Shropshire yearling rams. Representatives of this flock have given satisfaction in many states since 1890. Priced to sell. C. Lemen, Dexter, Mich

Brookside Farm offers Shropshires of quality, 10 DAN BOOHER, R. 4 Evert, Mich.

Shropshires 15 yearling rams 30 ram lambs 20 ewes 30 ewe lambs. Priced right B. D. KELLY & SON, - - Ypsilanti, Mich

FOR SALE Shorpshire Ram lambs 10 bred ewes and 10 Ewe lambs.

ARMSTRONG BROS, R. 3, Fowlerville, Mich.

For Sale Oxfords 1-2 year old ram beauty, 3 good yearling rams at farmers prices, also few good ewes, Can breed to our Canadian ram and ship Dec 1st. if desired.

GEO, T. ABBOTT, - - - Palms, Mich.

OXFORD RAMS
1 2 year old, 3 yearlings and 6 lambs. All reg.
EARL C. McCARTY. Bad Axe, Mich.

Reg. Oxford ram lambs; come by auto and take the choice at \$30 and \$35 fine stock. 2 S. 3 W. St. Johns, Mich. St. Johns, Mich.

Choice Oxford Yearling Rams For Sale Carland, Mich

OXFORD Down Ram ismbs, also a few ewe lambs, Berkshire both sexes, Booking orders for fall pigs. CHASE STOCK FARM, R. 1, Marlette, Mich.

FOR SALE Oxford Sheep, Yearling and ram lambs.

H. W. MANN, Dansville, Mich.

OXFORDS LAMBS
and yearling rams. O. M. York, Millington, Mich.

Improved Black Top Delaines. Sixty Reg. NEWTON & BLANK, Hill Crest Farm, Perrinton, Mich. Farm situated four miles south of Middleton.

LINCOLNS
Good Lincoln rams and ram lambs also a few ewes
bred if desired for sale. E. Knight, Gagetown, Mich.

Have a few good yearling and ram lambs
Also a limited amount of young ewes.
HARRY POTTER & SON,
Davison, Mich.

Merino and Delaines having size, covering, oily fleeces, quality, rams worth the price, write wants. S. H. Sander, R. 2, Astabula, O.

For sale 48 breeding ewes one to four years old Ham-baires and Dorsets all fine grade. One 2 years old Dorset Ram Registered. Box 15, Irons. Mich. Cotswold, Lincolns, Lesters, Tunis, Hampshires with each. Letty KUNEY, Adrian Mich.

HORSES

Horses Will Be Horses Soon

We have on hand at all times a choice selection of young Percheron Stallions. Also have a few good work horses that we are offering to exchange for young stallions.

PALMER BROS,

R. R. Orleans,

Belding, Mich.

Percherons, Holsteins, Angus, Shropshires, Durocs DORR D. BUELL. Elmira, Michigan.

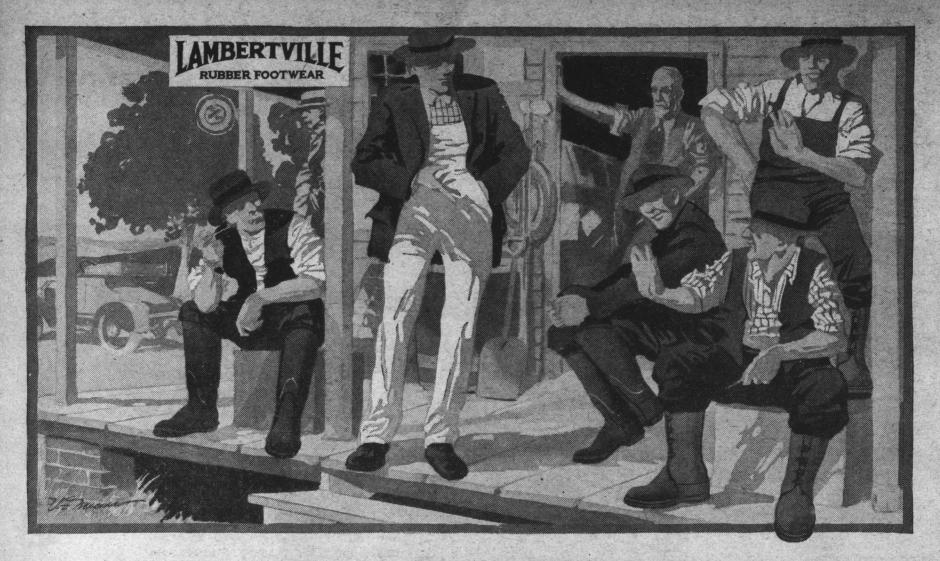
Percheron Stallions and mares of reasonable prices; inspection invited.

F.H. EING & SON. Charlotte, Mich.

Percherons for sale. Stallion three years old. Mare six, at the right price to close out.

E. J. ALDRICH. Tekonsha, Mich.

Auction Sale of Reg. Perch., Reg. Shorthorns and Duroc Hogs, Tuesday Oct. 29th. write for sale list. J.M. Hicks & Sons, R.2, Williamston, Mich.



"Anybody want to sell his Lambertvilles?"

"There's not another pair in the store. John says he sold out and he's got word from the factory that there's not enough Lambertville goods to go around because most of them are going to fill Government orders. I know war's war and we must make sacrifices; but I've got a lot of wet work to do and I can't get along without Lambertville boots. Come on Joe—or you Bill—what'll you take for your Lambertvilles?"

The above is by no means an unusual or over-drawn incident. It will be difficult to buy Lambertville Footwear this season. The Government is getting nearly all we can make. The man who finds a dealer with an odd pair or so of his size in stock is fortunate.

If, through these unusual circumstances, you are forced to buy some brand of footwear that

If your dealer hasn't the style you have been wearing, perhaps he has one of the other numbers. Any Lambertville is a good purchase.

you do not know and that is perhaps of lower quality than Lambertville, take them only as a temporary substitute. Your dealer will have the old familiar and reliable Lambertville goods just as soon as conditions are normal.

If you are disappointed, don't blame the dealer. It is his loss, and our loss as well, if your needs cannot be met, and we ask that you take the disappointment patriotically as a temporary substitute.

We make our promise both to you and to the trade that a full line of Lambertville Footwear will be available as soon as the Government demands are lessened. In the meantime, make your old boots and shoes last as long as you can, and if you are lucky enough to find a dealer with Lambertvilles, buy them on sight.

LAMBERTVILLE RUBBER CO., LAMBERTVILLE, NEW JERSEY