

# Farmers Consider Dairy Crisis

Michigan Dairymen Protest Against Federal Action

A T the general session of the meeting of the milk producers of the Detroit area, held in the Board of Commerce building, Tuesday afternoon, President Hull gave a brief address explaining the situation now confronting the producers of this district. "Probably there has never been a time since the dairymen of this area organized," said Mr. Hull, "that there have been so many things in the air that are of so great interest to all of us. You probably all know that the Fair Price Commission, and I want to put especial emphasis on the word fair, has said that after April 15 the price of milk to the consumers in this district shall be fourteen cents per quart.

"What does this mean? It means that a few men met in the city some few days ago, and in the most autocratic manner ever known have set a price on what you do and what your family do. How they arrived at their fair price, we do not know, but we are told that they 'figgered it over.' When Secretary Reed and myself heard of this arbitrary action we immediately got in touch with Judge Connolly and requested a hearing. We asked him if he proposed to set a price on the farmers' milk without giving any sort of consideration to the cost of producing it. We asked him if he thought that the distributors in the city of Detroit should have any profit. And he replied that he thought, considering the risks they assumed and the unpreventable losses that it would be only fair for them to have a twenty per cent profit. We asked him if he thought that the farmers assumed any risks and had any losses. He said he thought they did and that they ought to have a profit of twenty per cent. We said, 'Judge, you are a man after our own heart.' But I do not want any of you gentlemen before me to feel too sure about getting that twenty per cent profit for your milk.

"There has never been a time in the history of the dairy industry when it cost so much to produce milk as it does today. We are fortunate that the Michigan Agricultural College has been gathering production cost figures and we are fortunate in having as capable a man as Professor Anderson as a witness for us. Now, I want twenty-five of you men who are here to stay over and tell, at the hearing this evening,

A T the general session of the meet- how much it is costing to produce the facts just as they are so that we are happening about us today are mereing of the milk producers of the milk. I want you to tell them some of can put up a clean and convincing ly child's play compared with what Detroit area, held in the Board the things you know, and not things case that cannot be questioned. The will happen if you and I as citizens do of Commerce building, Tuesday after you are not sure of. I want men who permanency of our business hangs upnot do our duty and hold things where noon, President Hull gave a brief adknow the prices of grain, hay and labor on just such conditions as we are factories without striking, for striking is

What Milk Commission Has Done

FOLLOWING the appointment of the Federal Fair Price Committee and its initial hearing on the Detroit milk situation, as reported in our last issue, the Detroit Area Milk Commission met on April 3, to consider what action it should take in these circumstances. After careful deliberation the following communication was addressed to the chairman of the Federal Committee:

HON. WM. F. CONNOLLY,

Chairman, Federal Fair Price Committee:

In view of the inquiry instituted by your committee, as a legally constituted authority, into the matter of milk prices in the city of Detroit, the Detroit Area Milk Commssion deems it to be its duty to address this communication to you.

This commission, as you know, is an extra legal body, acting without authority of law or other authority except that vested in it by petition of the milk producers and distributors in the Detroit market milk area and the common consent of the consuming public of this city, through representation on the commission.

The members of this commision undertook the work asked of it reluctantly as a war emergency duty, and then only after a member of the commission, then State Market Director, had taken the matter up with the Food Administration and been advised by Judge Lamb to take care of the emergency locally, if possible. Since it was called to this service as a war emergency in the autumn of 1917, this commission has continued to serve in the same capacity by repeated annual request of milk producers and distributors in the Detroit market milk area and with the acquiescence of the consumers of this city. Its personnel is as follows:

J. Walter Drake, Chairman, selected by Detroit Board of Commerce.

Mrs. Frederick Ray, Pres. Detroit Federation of Women's Clubs.

Frank X. Martell, selected by Detroit Federation of Labor.

Fred M. Warner, Ex-Governor of Michigan.

Fred L. Woodworth, State Food and Drug Commissioner. L. R. Waterbury, Member of State Board of Agriculture. James N. McBride, former State Director of Markets. A. C. Anderson, Professor of Dairy Husbandry, M. A. C.

In its work the commission has considered its first duty to be to safeguard and insure an adequate present and future milk supply to the people of the city of Detroit, and as a means to that end has made a careful investigation and study of production and distribution costs, and has undertaken to keep the price of milk to consumers at the lowest point compatible with those legitimate costs. Its acts, and the information on which these acts were based are a matter of record, which record, together with a mass of data which may be valuable to you, will be made available to you if you so desire.

In view of the above noted legal status of the two bodies, this commission has no desire to add complications to an already delicate, if not critical situation, and is reluctant to continue its sittings if your committee desires to function in this capacity. In that event this commission feels that you should be advised of the fact that contracts made and now in force providing for a supply of market milk for the city of Detroit are based on the premise that this commission would continue to act throughout the year.

If it is in accord with the wish or judgment of your committee, this commission will be glad to be relieved of the onerous task which has been imposed upon it and which it has assumed solely as a public duty, and will be glad to be advised of your desires in the matter. THE DETROIT AREA MILK COMM ISSION. Detroit, Mich., April 3 1920.

Later Action by the Commission

On April 13, the Milk Commission again met to consider its further duty in the matter, its conclu- (Continued on page 683).

are happening about us today are merely child's play compared with what will happen if you and I as citizens do not do our duty and hold things where they should be. We can do these things without striking, for striking is dangerous business. And let none of us get excited and want to become martyrs, for today we would be cheered, but in two years when we came out we would be jail birds. Two years is a long time and people forget. If you asked me what I should do I would say that, individually, I would quit milking my cows. That would be better than going to jail.

"Let us do everything we can to convince people of the facts and put up such a case that they can't give us an unjust decision. There is no question but that prices have gone down in some sections due to the closing of condensing plants, but that does not affect us much here. We will have a surplus at times to deal with, but it should be taken care of in a sound businesslike way. We should advertise and create a greater demand for our milk instead of cutting down the price. That is the only way to insure a steady supply. We have accomplished much in the last two years, but we have only begun our work. If we are going ahead and take business chances we have got to take some losses as well as the good things. I don't know what we may have to do. Our whole system of distribution is too expensive and I am not sure but that we have got to solve some of the distribution problems by cooperation. The thing that we have got to do is to make things so that in some way the folks on the farms get more than thirtythree per cent of the consumer's dollar."

Secretary Reed made an eloquent plea for the milk producers to stand together and act sanely during the impending crisis. He urged the need of remaining loyal to the organization and to one another until the farmer is recognized as a factor in the commercial life of the country. We are going on to face the enemy and do what we believe is right. We would be poor soldiers, indeed, if we should fall back after the first volley had been fired at us.

"I can't conceive," said Mr. Reed. (Continued on page 686).





## The Michigan Farmer fail to prevail.

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#### CURRENT COMMENT

Why Your Paper Is Late

THE difficulty in the handling of outgoing mail has made it impossible to

urday each week. This week the handicap of the switchmen's strike, which has made the normal distribution of electric current in Detroit an impossibility, due to the shortage of coal, is certain to make your paper late, if it does not prove an insurmountable obstacle in getting it to you at all, so riculture is promoting such a system quitting by the thousands. Our county please be patient with us.

The white paper situation is also still a very difficult problem which will be further aggravated by the strike. Every effort humanly possible will be made to give our readers the best possible service, during the period of abnormal difficulties.

#### The Detroit Milk Situation

REPORTS of the delegate meeting of the Michigan Milk Producers' Association, the meeting of the Detroit Area Milk

Commission and the rehearing on the milk situation before the Federal Fair Price Committee will be found elsedairyman contributing to the Detroit

Detroit area to continue to ship his it was four years ago. milk as usual, since every resource will the committee if possible, and by re- the strike in shutting off the supply of claim that it is class legislation."

the past two years in the case of milk, a day until the Maine potato crop ages of eighteen and twenty-one years, as compared with a hundred per cent could be moved to destination. The who volunteer to take such training. shown, that producers have not been vented the delivery of fertilizers, farm tions of senators that the voluntary that there has been a lot of profiteergetting full cost of production at pres- implements and seeds all over the plan would be the means of develop-

A Last Chance for Sugar Beets

tlement of the sugar been issued. beet controversy,

circuit judges of the beet-growing ago.

ent prices, simple justice can scarcely counties, which was first advanced ing a stronger public sentiment in fathrough the Michigan Farmer, and ac- vor of compulsory training. In any event producers should con- cepted by the directors of the growers' The Lawrence Publishing Co. tinue to carry out their contracts and organization, apparently met with no time to investigating the various wardeliver their milk as usual, pending response from the sugar manufactur- time activities, and as a result is find-Detroit. Michigan the final settlement of the controversy. ers. After this plan failed to get re- ing much evidence of waste and loot. sults, Governor Sleeper was urged to The war and navy departments are W HILE previous call the contending parties together coming in for a full share of censure failed to secure a set- report indicates that such a call has the committee on public information,

> there is still hope that hand. This is a last chance to reach that were open to criticism. The consome settlement may be secured in a settlement of this problem, and it is gressional investigation committee time to permit the planting of a nor- to be hoped that the negotiations which found that thousands of mal crop of beets in Michigan this may result from getting the parties to- checks sent in as subscriptions to the year. The plan for a settlement by a gether may result in a fair settlement "Official Bulletin" were strewn about board of arbitrators composed of the of the issue, as was the case two years in Crecl's records, and that it will take

## Washington News Letter

ganization is doing effective work for to catch up with living costs. West Virginia, in charge.

road bill introduced in the senate by homa, says: get your Michigan Senator Charles E. Townsend of Mich-Farmer to you on Satigan, and known as the Townsend bill provides for a city to city system of do something for the farmer, and the automobile roads. This, according to Mr. Silver, does not meet the present situation. Far more than pleasure rid- of extensive business. No industry can ing automobile city to city roads, the survive producing at a financial loss, ways. The Federal Department of Agin the interest of both the producers and consumers.

> phasize the importance of market highways, and will no doubt be the means ers: About four weeks ago I visited ey gone. They say that the Capperof developing an agitation for better a farmer who put out eighty acres of marketing roads. The people of the wheat in the fall of 1019. Lost fall cities will have to aid in the develop- the same farmer put out six acres." ment of the farm to town road system, or go hungry. It is no longer safe to depend wholly upon the railroads to factories in securing labor, according supply the cities with foodstuffs.

The products of the soil built our decreased acreage of wheat. railroads and must build our highways. For the good of all the people

rapid growth. The membership is in- cost of living and the probability of for the purpose of spreading and fastcreasing by the thousands, and the or- more strikes to secure increased wages ening their military and international-

Mr. Silver says it emphasizes very enactment of this bill. One county army vocational training or the operaforcefully the highway question. The agent, writing to Mr. Silver from Okla-

"It seems to me that conditions are such at this time that congress must agricultural interests of the country, or the farmers will be forced to go out strictly up against now, and they are put out 137,500 acres of wheat in 1918. The 1919 sown acreage is less than The railroad strike is going to em- 8,000 acres by actual data gathered. To illustrate the feelings of the farmwheat in the fall of 1918. Last fall The inability of the farmers to compete with the railroads, mines and to this man, is a leading factor in the

the government cannot afford to be bill so strongly backed by the farm iteers of 1918. stingy with the public highways. Ev- organizations and consumers' associaery farm is entitled to a good road to tions, as the Capper-Hersman bill, can town, and the farmers, usually slow in be held up and smothered without the should be read and analyzed by every asking for appropriations, are justified senate having a chance to vote on it. in demanding sufficient appropriations Senator Capper explains this, by sayto construct and maintain these roads. ing that "the bill has been lodged for growers for losses they claim to have The costs of road construction are months in the judiciary committee, Unjust as this disturbance of the high, but Henry Shirley, a highway au where it was in turn referred to a subprice for market milk by the federal thority, estimates that with the excep- committee. This sub-committee refuscommittee may seem at this time, tion of wheat, every farm crop will es to report the measure to the full when producers' costs are higher than build more road per bushel, pound or committee and thus balks its report to ever before may be, it will be the part ton than before the war, the relative the senate. The judiciary committee of wisdom for every producer in the cost of road building being less than is made up of lawyers. The bill was milk problem, the district health de-The widespread railroad strike has ground that there was a question about milk regulation to keep impure milk be exhausted by the officers of the brought to the people of the cities a its constitutionality. What has hap out of the city. The public health offimilk producers' organization to get a serious food problem. But Mr. Silver pened is that lawyers on the commit- cer favors a provision in the law rejust price for the product, by action of points out that the present results of tee are blocking its report under the quiring annual permits for milk deal-

Congress is devoting considerable have for a conference, and a current press for their wasteful extravagance, and of which George Creel was chairman, The beet planting season is close at is charged with having done things a long time to get these matters straightened out in an intelligible form. "There is no doubt," the committee reports, "that a certain clique both in and out of the army and navy had their NFORMATION I am receiving indi-country, and this will undoubtedly preparations well advanced to cover cates that the American Federa- cause a serious shortage of food next the country with an all-enmeshing tion of Farm Bureaus is making a fall, with another boost in the high chain of newspapers and magazines ist doctrines upon the United States. the protection and betterment of the Mr. Silver predicts that the Capper. Even the wet propagandists got a good farmers. The Washington headquar Hersman bill will be reported out of start in army publications. Articles ters of the Federation is at 1411 Penn- the committee this spring. The Fed- and editorials boosting the liquor insylvania avenue, with Gray Silver, of eration of Farm Bureaus Washington terests appearing before the commitheadquarters is receiving many letters tee suggested that further discussion In discussing the railroad situation, from farmers, strongly demanding the of this subject was not essential to Bulletin" cost the government \$680,000 for printing during its brief existence under government control.

The folks on the farms who were urged to buy Libery Bonds to the limit will no doubt be interested in knowing where their money went to. But some of the farmers I meet in Washington, country needs the farm to town high- and that is just what the farmers are coming from different parts of the country, are inclined to question whether congress might not better spend its time enacting useful and much needed constructive legislation, rather than spending its efforts in investigating conditions that are past, and the mon-Hersman farmers' collective bargaining bill, the Anderson-Gronna packer control legislation, and the French Truth-in-Fabric bill are either one of more importance just now than any investigation that congress might make of war-time mismanagement and extravagance. They also say that they are more interested in profiteering Some farmers are wondering why a that is going on now than in the prof-

> Echoes of the Hoover food administration are still being heard on the floors of congress. Senator Capper has introduced a bill to reimburse wheat which he estimates at \$240,000,000. This bill will naturally have strong support from the big western wheat-

Washington is wrestling with a purereferred to this committee on the partment demanding more stringent ers and dairymen, and in cases where course to the courts if this cannot be food, are small compared with the food Opposition of the National Grange testing every six months until the disaccomplished.

There is a shortage next fall that will be inevital and other influential farm organizations. There is a very reasonable doubt ble as a direct result of tying up the tions to compulsory military training ease is eradicated. A section of the whether arbitrary action under the railways this spring. The Long Island and service has been effective in securrequire tubercular tests for cows producing milk to be used in the manuapproved by the courts, when it is intheir seed from Aroostook county, ure, at least for a time. Voluntary
facture of ice cream. Dr. Fowler, auvoked under present conditions to Maine, early in the season, owing to release and will under consideration does not
milk bill under consideration does not
require tubercular tests for cows producing milk to be used in the manufacture of ice cream. Dr. Fowler, auvoked under present conditions to Maine, early in the season, owing to release and will underwise the facture of the bill, claims that it is unforce the sale of a product which has the car shortage. They appealed to place and will undoubtedly be the polaces and any other Mr. Silver, who was able to get from icy of the country. The new plan for milk used in ice cream, as the bacessential foodstuff. This advance has the American Railway Association the provides a military training of four been only twenty-five per cent during promise of one hundred additional cars months for all young men between the facture.

An investigation of the high prices or more for other food commodities strike came on, the railroads could not That attempts in the future will be of shoes is now being made by a suband still greater advance in the cost of meet this agreement, and the Long made to have the country adopt the committee of the senate committee on other necessities. When it is conclu- Island growers are without their seed universal compulsory military training manufactures. The committee is findsively shown, as it can and will be at planting time. The strike has pre-system, was indicated by the predicting much evidence to convince them

(Continued on page 673).

## Marl for Soil Improvement

By W. W. Weir

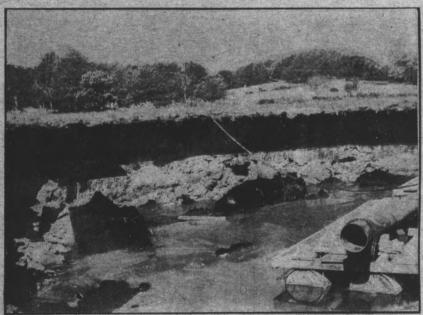
ARL is a name given to earthy or less potash. This can be used as a deposits, usually more or less frisource of potash in fertilizers. able in character, and containing Deposits of shells partly disintegratcarbonate of lime in greater or less ed and decomposed and more or less or muck, or they may constitute the its are commonly called "shell marl." In color, marl may vary from pure Georgia and the shell-marl beds in white to a very dark gray. Marl is not Florida are good examples. to be found in every marsh, pond or shallow lake—all depending largely on the character of the drainage waters that drained into the low areas years same material, chemically as limestone and years ago, and that are draining and air-slaked lime. Marl, therefore, beds of marl are only very thin strata soils. The marls which contain seveninto them even during our age. Some while other beds may be ten, twenty ty-five to ninety-five per cent carbonand more feet in length.

#### Origin of Marl.

amounts. In most cases beds of marl cemented together in a mass are to be are found in marshes underneath peat found in some sections. These deposfloor of shallow ponds, lakes or bays. An oyster-shell marl bed in northern

#### Marl for Soil Improvement.

The carbonate of lime in marl is the can be used in the improvement of acid ate of lime (on the dry basis) are worth considering, provided of course, it can be easily obtained. It is well, Usually the discovery of a bed of therefore, to have marl beds analyzed marl excites much interest and cur- to determine their value as carriers of iosity, especially as regards its forma- lime. Some excellent marl beds are tion. Sometimes a bed of grayish- accessible and near railroads. Other white clay is mistaken for marl. Many beds have been plowed through in the marl beds were formed thousands of digging of large, drainage outlet ditchyears ago and others are being formed es, and thousands of tons of good marl in our age and generation. The car- have been dumped in the form of large bonate of lime in the marl already ditch banks. The questions naturally formed came originally from limestone. arise, "What about the use of this ma-



This Picture Shows a Bed of Marl Under a Four-foot Layer of Peat.

ulated. Through the activities of tiny compete with other agricultural lines?" a single season.

#### Other Kinds of Marl.

tains some lime carbonate and more (Continued on page 684).

The waters from rains dissolved the terial for soil improvement?" and, limestone and carried it in solution "Cannot this material be prepared ecointo the low areas, and there it accum- nomically and placed on the market to

shell animals, certain water plants, A few years ago we came face to and probably certain bacteria, which face with these questions in Wisconinhabit shallow bodies of water, the sin. It was during those years when carbonate of lime in solution was caus- it was difficult for farmers to see very ed to settle out-sometimes forming a much value in a common rock that deposit containing more or less sand has simply passed through a pulverizand mud when sediments are carried er. It was then when we realized that in by flood waters. In shallow lakes agricultural lime should be a cheap or ponds located in limestone areas it material in order to induce farmers to is common to observe the deposition consider it for soil improvement. Lime of carbonate of lime by water plants. stone we have in abundance, ranging A small, shallow lake less than half a from hard and dense rock to soft and mile from the writer's home is a splen-thoroughly crumbled limestone easily did example of present-day marl forma- obtained. Central and northern Wisdid example of present-day marl forma- obtained. Central and northern Wistion. Many of the "round marshes" in consin represent broad expanses of R. K. TIRES New York are other good examples. acid soils in which no limestone occurs One investigator has reported that one as country rock; so that practically all of the water plants, the chara, under agriultural lime for this vast area must favorable conditions may deposit an neessarily be secured from the eastern, inch or more of carbonate of lime in southern and western portions of the state, especially if pulverized limestone is to be used. It was reasonable Occasionally a deposit of lime car- to assume that the more sources of bonate very similar in appearance to agricultural lime that could be develmarl may be found on hillsides in a oped within short distance of the large limestone country. This may be ob- acid area of Wisconsin, as well as in served, for example, in southwestern proximity to other areas of soils poor Wisconsin. Such deposits are formed in lime, the cheaper the material could through the action of seepage waters be obtained. This led to the considerpassing through much decomposed ation of utilizing some of our good marl deposits, some close to railroads In New Jersey the term marl is ap- and others some little distance from plied to greensand material which con- them. For example, a deposit of pure,

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## Dairymen Face Federal Committee

rehearing by the Federal Fair Price the part of some of its members at Preparations are, however, being Committee in the matter of retail milk least, to reopen the matter. But ac made to institute injunction proceedprices in Detroit, which hearing was tion was held in abeyance until the ings restraining the committee from held in the Federal Building on Tues- return of Chairman Connolly, and the enforcing its order, and important leday evening, April 13. But three mem- order stood as issued. Milk was sold gal developments may be expected in bers of the committee were present, at fourteen cents per quart by distrib- the near future. Chairman Connolly being absent from the city. The producers were given the first opportunity to be heard. Prof. A. C. Anderson, of M. A. C., was asked by President Hull to present the experiment station figures on the cost of had these figures, together with data O was introduced in course by the loans are made on the repute regarding milk prices and distribution costs in fluid milk markets throughout the United States in documentary form, with copies for each member of the committee and supplemented these data sheets with oral explanations. He was proceeding with an analysis of the situation in and about the city of Milwaukee, where milk is retailed at a lower price than in any other city in the country, explaining the nature of the farming country close to the city which is adapted to dairying and not to general farming, commenting on the fact that the city supply is derived from nearby territory where it is hauled directly from the farm to the distributing plant and analyzing the business of the Gridley Dairy Company, the principal distributors of the city to show that their margin of profit was smaller than would suffice in a similar business in a large and growing city like Detroit where expansion must be continuous.

ness said he had comparative prices the farmer to turn his crop or stock. for only one month, and indicated that On the other hand, the plan of the

a practical nature, and indicated his months to two or three years. belief that experiment station figures Personal property loans are genertively, covering periods of ten months rates of interest.

ness to do so.

tion, which affected the lives of ten growth of the stock. thousand farmers as well as the future 2. There is no class of property that pay to inspect their range and be su

with the undoubtable fact that their able any day.

milk distributors were granted a there was apparently an inclination on must be reduced accordingly.

HE officers of the Michigan Milk action in fixing the price had been tak- tors on Thursday, and producers were Producers' Association, and the en without sufficient consideration and given formal notice that their price

## The Rural Credit Bill

By John R. Rood

vision and support, of a national "Rur- cause he also has that belief. al Credit Society" with a central office branches, one in each state, and with lose unless the bank is paid. as many local "Communes" in each

Insurance League" with local offices to the Federal Farm Loan Banks, each do agricultural insurance.

his business, and adapted to the needs lectable. of credit for the raiser of stock, and the producer of crops.

The thirty and sixty-day credit granted on commercial paper by the established commercial banks is man-The apparent attitude of a majority ifestly wholly inadequate for the farmof the members of the committee was er. If the farmer asks credit to finance demonstrated. Acting Chairman Cu- putting in a wheat crop, when the pasick, of the committee, asked the wit- per becomes due he has nothing with ness regarding the comparative prices which to pay it. If the paper ran a paid producers in the Milwaukee and year he could sell-his crop and pay Detroit areas. The answer was that the note with the proceeds. The time it was less in the Milwaukee territory. allowed the merchant to turn over his On being asked how much less the wit- stock is wholly inadequate to enable

an intelligent reply would necessarily National Farm Loan Banks is not have to be based on the figures for a adapted to this purpose, and is based year, which he did not have, but which only on real estate security. The plan he would secure for the committee if of such loans is to run for a period they so desired. On his refusal to of five to forty years, and be paid out make an estimate without exact knowl- in forty yearly payments. This plan article to his congressman concerning edge the witness was charged with is admirably adapted to financing the this bill would do no harm. Try it. evasion and excused by being told that purchase or improvement of a farm, he could "go, and take his sheets with but is wholly unsuited to the needs of the live stock feeder, breeder, and the Another member of the committee cropper, who would furnish only a perasked President Hull if he had any sonal property security, and who ordiproducers who could give testimony of narily desires to pay in about six ter, but the other day one of the nicest

were always high. Several witnesses ally regarded by banks as accompawere always high. Several witnesses any regarded by the greater risk of any class appearance. In about four hours she of feeds and labor, and two witnesses of loans; and for this reason they are bether beak down and soon was who had kept careful cost accounting generally refused by commercial banks records showed their costs to have and are handled only by pawnbrokers, and seemed to be filled with blood but records showed their costs to have and are handled only by pawnbrokers, dustrial banks, etc., at prohibitive the heart and liver were in fine shape.

What disease was this, and what conditions would cause it? been \$4.05 and \$3.93 per cwt. respec-industrial banks, etc., at prohibitive

Testimony of some distributors was are banks that have assumed that class tribution of milk to be around one-fourth cent per quart under prices for a number of years past, and ex-

President Hull and the distributors' and the loan made, the huyer begins where its presence is not known by attorney appealed to the committee for feeding the stock, and every day the the poultry owner. the further consideration of their ac-margin of security is increased by the Possibly no more of the flock w

milk supply of the city of Detroit. is so quickly and so readily converted that the hens do not have access The committee seemed impressed into money as live stock. It is sale- any material which might poison their

Representative Louis T. McFadden, of of his business, and his experience; Pennsylvania, in which every farmer and he buys only because he believes is interested. It provides for the es- he would make a profit by the process: tablishment under United States super- and the loan is made by the banker be-

4. Loans are never made unless the at a place to be fixed by commission- borrower has put some real money into ers provided for in the bill, with the stock himself, which he stands to

The scheme of the author of the bill state as may be organized.

for the Rural Credit Society is patthe bill also provides for a "Liberty terned very much after the plan of local chapter standing liable for all the In his address in introducing his loans made to its members, to the exmeasure the author of the bill an- tent of the stock of the local branch; nounced that it was proposed to fur- and in addition the stock of the state nish for the farmer the personal credit branch is ultimately liable on all loans enjoyed by the merchant in conducting in the district if not otherwise col-

> Since these credit banks are forbidden to take money on deposit and would finance their loans only by sale of their paper and by use of the capital invested in the stock, they would not be competitors of the commercial banks, to any considerable extent.

The details of the plan are too great to be stated in an article like this; and to pass on the wisdom and adaptation of the plan in all details to be worked, would require more knowledge of banking than the writer possesses; but it is believed that the plan in general has great merit; and that such a bank would put the cropper and stockraiser, who would borrow on this personal property security, on a par with the merchant in getting banking support. A word by the reader of this

#### PROBABLY POISONING.

My chickens have been well all winred-combed ones was drooping her feathers and standing by herself. We placed her in a pen by herself and noticed that the droppings had a milky

also taken in the matter of distribution costs and statements were presented showing the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the profit per count in the matter of distribution bank in a western state told the written and the per count in the matter of distribution bank in a western state told the written and the per count in the matter of distribution bank in a western state told the written and the per count in the matter of distribution bank in a western state told the written and the per count in the matter of the per count in the matter of the per count in the matter of distribution bank in a western state told the written and the per count in the matter of the per count Mrs. C. E. H. Livingston Co. showing the profit per quart in the distribution of milk to be around onewhich have recently obtained, a little less in some cases and a little more in others. The distributors were asked if they would open their books to the committee and expressed their willing-1. As soon as the stock is purchased free range and find such material

show signs of sickness but it mig

## Pulling Together

EYOND question, the cooperative movement that swept Michigan in an irresistless wave, some years ago, and which is still active everywhere, is one of the most revolutionary and significant factors in modern agricultural life. The opponents of the innovation were numerous enough, in the initial stages of the movement, and although many have been silenced by the signal success of cooperative associations, plenty of adverse critics may still be found. To meet wordy arguments with wordy arguments may be well enough, but few are convinced thereby. The advocates of cooperation are answering their critics with something stronger than words-they are answering with deeds. Many of these cooperative organizations are able to produce the goods, thus silencing those who predicted failure and confusion.

Among the successful cooperative organizations of southern Michigan, the Coldwater Cooperative Company holds a high place. This is one of the pioneer companies of this section. For six years the company has been doing a successful business, constantly enlarging its sphere of usefulness, and annually increasing its business. Like all cooperative associations in these parts, the Coldwater company began with the shipping of live stock-an undertaking that has been conducted successfully from year to year. Last year, husiness amounting to a half million dollars was done along this line.

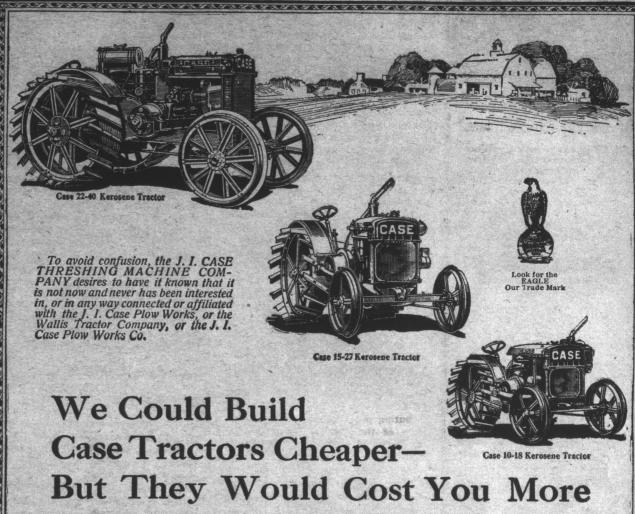
Shipping live stock is not, however, the only shipping business carried on by the company. Practically all kinds of farm products are now handled. All kinds of grain, clover seed, potatoes, cabbage—these are some of the things successfully handled.

The company now owns a good-sized warehouse and a three-car grain elevator, with provisions for greater capacity when needed. The shipping of grain is comparatively a new thing with this company. When asked by the writer, Charles T. Bishop, secretary-treasurer, made the following interesting reply:

"Will state that when we started to take in rye, the local mill was paying \$1.35, while we paid \$1.60. When we began taking in wheat, the local mill was paying \$2.12 to \$2.15. We started in paying \$2.35 for No. 2 wheat and three cents more for No. 1. Then the local mill raised the price to \$2.40, and the price today, for No. 1, is \$2.43, and three cents less for No. 2. We will let you be your own judge as to whether or not the company is handling grain successfully. I might state that we buy this wheat and pay the grower at the time the grain is delivered to us. This seems to us to be the only feasible manner in which to handle the grain proposition."

It is scarcely necessary to comment on the above pertinent quotation. Mr. Bishop's statements prove conclusively, one thing, however. It proves that the farmer's contention that he is not receiving his just share from the fruits of his time and labor, may be starttingly true. The discrepancy between the price paid by the cooperative company and that paid by local millers, is even greater than most people would possible. Plainly, all growers in the vicinity of Coldwater, whether they are members of the cooperative company or not, will profit greatly, from the fact that the "coops' are handling these products.

The Coldwater company's experiment in the shipping of grain, reveals the same amazing conditions noted in the live stock business a few years ago. The local middleman is not in business for his health, merely. His elimination at this end of the line solves to a considerable extent, the question of more equitable prices for the producer. And this gives oppor-



Built into every Case Kerosene Tractor is a high degree of immunity from frequent repairs, replacements and undue wear. These items and the delays they cause are expenses you must add to the first cost of any tractor designed and built less excellently than the Case.

It would cost us less to use iron castings in many places instead of the drop-forged steel we do use; but it would cost you far more for replacement of broken and worn out parts.

We could save a lot by using castiron open gears instead of cut steel gears running in oil-tight housings; but later on, you'd pay many times the difference for extra parts, and lose still more by delay.

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the best that they can be built instead of building cheaply and "passing the buck" to you.

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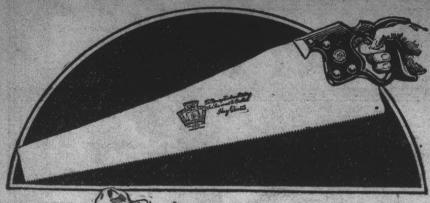
Back of Case Kerosene Tractors is the great line of power farming machinery built by the J. I. Case Threshing Machine Co. Of this line, each unit is unexcelled in its class; within this line is equipment for keeping a Case Kerosene Tractor profitably employed throughout the year. Write for free catalog descriptive of Case Tractors, and listing our great line of tractor drawn or driven machinery.

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Mention The Michigan Farmer When Writing to Advertisers

the retail price charged by local mid- efit from the change. er declines to comment at present, on Bishop. this argument of the foes of coopera-

tunity to state plainly, an argument tion. Admitting, however, that these widely used against the farmer, when- cooperative companies are primarily ever the problem of getting the pro- for and in the interest of the farmer ducer and consumer closer together, is is it not true that their ultimate and lasting success must depend on the Opponents of cooperation contend attitude of consumers? With produc that the consumer can not benefit from er and consumer in close league, the the system. They point to the fact middleman must go. But before this that farmers will not sell products, can be accomplished, both produces even to local consumers, for less than and consumer must be assured of ben

dlemen. They say farmers will de- The Coldwater Cooperative Com mand as much for potatoes or apples pany, the success of which has occaor berries, when sold direct to the con- sioned this article, welcome all inquir sumer, as the local dealer charges who ies advanced for the purpose of furth reaps the middleman's profit from the ering the cooperative movement. The transaction. They point out that the company has learned from experience, same attitude will be taken by the pro-valuable information concerning coop ducer, under the cooperative system, erative methods. The officers of the and that he alone, and not the con- company are as follows: President sumer, will benefit. With too many G. S. Coffman; vice-president, W. C. illustrations of the foregoing accusa- Kempster; manager, Robert S. Brews tion, in his home community, the writter; secretary-treasurer, Charles T.

## Crops to Grow in Place of Sugar Beets-By Professor J. F. Cox

WITH the planting season coming is desired, or in Menominee county the ment having been reached be as Wisc. No. 25. tween the Sugar Beet Growers' Association and manufacturers, which in- Beets are produced for the most part

gan growers turn to other crops.

profitable operation.

cumstance, for Michigan has taken Red Kidneys appears warranted. pride in this splendid crop and profitable industry.

Association. Since beets are usually be unsafe. grown in a definite rotation, the first The advantage of the above crops is in the rotation.

Corn a Logical Crop.

Corn will do well on ground formerly King, or local varieties known to be Huron, Sanilac and Tuscola, excellent safe, which will ripen well if grain corn

on with a rush and no agree earliest strains of Golden Glow, such

Red Kidney Beans.

sures a reward which is satisfactory on the strong loams, silt loams, and in the growers' estimation, a great clay loams, of the regions south and number of growers are considering east of the Saginaw Bay and in the carefully the crop which will occupy Thumb region of Michigan and in Methe ground which would have been nominee county on the upper peninsuplanted to beets under contract ar la. This same area, excepting Menom-rangements, meeting their approval. ince county, is the leading bean-pro-In view of the great demand for ducing area of Michigan, and beans, sugar, the excellent adaptation of Mich- under ordinary conditions, would fill igan conditions to the production of out a large part of any acreage not this crop, and the high development in taken up by beets. Present market skill in production achieved by Mich- conditions, however, are not normal in igan growers, it is undoubtedly with regard to beans. The competition of considerable regret that many Michi- the Japanese beans, particularly of the Kotenashi type, has discouraged an It is hoped that even at this late expansion of the bean acreage. It date an agreement can be achieved would not, apparently, be advisable to between growers of the association and grow a larger acreage than normal of sugar manufacturers which will be sat- the white pea bean; however, attention isfactory to both parties and insure is called to the fact that Red Kidney the usual acreage of beets on Michigan beans are selling at a much higher beet soils, and a sufficiently large har price than white pea beans. While the vest to keep Michigan beet factories in Japanese can grow these beans, up to the present time they have not been The sugar beet business, if it is to furnishing Red Kidneys in any great thrive in Michigan, must be on a basis amounts, but have been seriously comwhich is profitable to both grower and peting with the White Navy bean by manufacturer, and if this basis cannot shipping over immense supplies of the be achieved the industry is doomed to Kotenashi, which is very similar, in wane and other crops will take the fact, practically identical to our white place of beets—a most regretable cir- pea bean. An increased acreage of

Potatoes Not Well Adapted.

Owing to the rather heavy nature of If by planting time, adequate re- most beet land no very great acreage wards, in the estimation of beet grow- of beet soil should be given over to ers, to encourage production, are not potatoes. On the more loamy type a assured the problem of what crops good yield and a good quality of potawhich are best to grow in place of toes can be secured. As in the case beets may be uppermost in the minds of beans, a few may do well with poof the members of the Beet Growers' tatoes, but a large new acreage would

crops to be considered are other culti- that they occupy the same place in our vated crops, such as corn, beans and rotations as sugar beets and can be potatoes, which occupy a similar place followed by small grains seeded to clover, as is usual in the sugar beet regions.

Oats and Barley.

given over to beets. Good beet soils Those who do not grow beets in a are usually excellent corn soils. Fall regular rotation may find small grains, plowing and early spring plowing of such as oats, barley, or spring wheat. land is the usual custom in preparing good crops to grow. Beet ground is for beets, and fits the ground very well adapted to a high production of well for corn. Any extra production any of these crops, and should be in of corn is not likely to influence the condition to receive them. Spring market to an appreciable extent, and wheat has not been proven to be a dea greater production than usual on the pendable crop in south-central or farm is readily taken care of by feed- southern Michigan, but in the best reg ing out more stock or by direct sale, ions of Menominee county and in the Care should be taken to secure varie northern part of the beet section or ties such as the Pickett, Golden Glow, the lower peninsula, including such Folks' White Cap, and Early Silver counties as Isabella, Midland, Bay,

(Continued on page 668).



## Insulation - the most important thing inside your Battery

Insulation is the material between the positive and negative plates, which keeps them from short circuits and thus safeguards the satisfactory performance of your battery.

Insulation, if it's Willard Threaded Rubber Insulation, keeps right on doing this important job to the very end of the battery's life—but if it is ordinary wood insulation it usually wears out before the plates do and has to be pulled out and thrown away and you have to foot the bill.

It is absolutely a fact that nobody had ever devised a really bomb-proof,

good-for-life automobile battery insulation that would last as long as the plates, till Willard invented Threaded Rubber and put it between the plates of the Still Better Willard Battery.

Therefore seeing it's the one most important thing inside your battery, drop in and see me next time you're in town and let's talk this question of insulation over in more detail.

Willard Service

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Batteries may be starved to death. Batteries may freeze to death in Batteries may die of thirst. winter.

Batteries may be injured by over- Any battery will ultimately

Willard Service can help you avoid all but the last.

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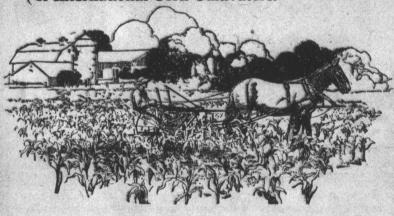
## Getting Maximum Returns

THE PROFITS you get from your corn crop depend as much on the yield as on the price you receive per bushel. You can't control the price very well, but you can govern the yield to a considerable extent—and because you naturally want to get maximum returns from the seed you plant, you will do everything within your power to insure a big yield.

For instance, when it comes to the very important matter of cultivation, you are not going to endanger your crop by using a cheap, flimsy cultivator that misses many weeds and, because of its loose, bored bearings, wobbles so that it dodges into a corn hill every now and then, uprooting the young stalks.

You can hold an International riding cultivator close against the corn rows with easeit is steady and the wheels track straight, because they are furnished with adjustable bearings so that any play from wear can be taken up very readily. And there are no weeds left behind an International.

See the International dealer the next time you are in town and ask him to show you his line of International Corn Cultivators.



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## **Blight and Rot Cause more Damage than Bugs**

Potato blight is a fungous disease that attacks the vines and may kill them in a few hours. It causes rot, either in the ground or in the cellar. Blight is a more serious enemy than bugs. It shortens the growing season, cuts down the yield and causes heavy losses by rot. It is easy enough to kill bugs with a poison, but a fungicide is needed to prevent blight. You can do both by spraying

This combined poison and fungicide prevents blight and kills bugs with the same application. It keeps the vines green and healthy and prolongs the growing season right up to frost. Pyrox is a smooth, creamy paste, ready to use by mixing with cold water. It sticks like paint. Respraying is required only to cover new growth. See your local dealer about Pyrox. Have him reserve enough for you. Write today for our "Vegetable Growers' Spray Manual."

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## Keeping Down Apple Scab

form large fruit spurs, and by cover- mers ing the fruit with a fungicide, such as other diseases is prevented.

Apple scab is most prevalent in wet seasons, as the spores require water buds have not opened. Spray again for germination. Serious losses from this disease often occur even when the trees are sprayed, due to the fact that at some time during the season too long a period is allowed to pass without spraying the trees. This has been especially true when there have been frequent showers during the first half of May or in July and August, when little spraying has been done.

The character of the weather cannot be forecast for any considerable time, and as the sprays are of a preventive nature, it is important that the spraying be done just before a rain, or at any rate near enough to the rainy period so that the foliage and fruit will be covered. If this can as soon as the fruit has set, and coneven a thin film of a fungicide.

first leaf-buds open until the fruit has arsenical should be used. been harvested, and even after the apples are in barrels the scab spots

that a thorough application of lime-sul- and worms. phur solution to the leaves and fruit will only protect them from attack for

MICHIGAN orchardists are getting two weeks; and if the weather is dry, from fifteen to fifty bushels of its effects may last for three or four apples per tree, which brings from weeks. From this, it can be seen that \$1.50 to \$3.50 per bushel from sprayed in order to hold apple scab (pear scab orchards, while unsprayed trees often is a nearly related disease and the folfail to bear; and if they do produce a lowing holds true with it also) in crop it is small in quantity and it will check we should make the first applisell for less than one-half of the above cation as soon as any green growth shows on the trees, and repeat every This is because spraying keeps the two or three weeks up to the first, or leaves healthy, enabling the trees to even the middle of August in wet sum-

What is known as the "pre-pink" lime-sulphur solution or Bordeaux spray, or early cluster-bud, should not mixture, the attack of apple scab and be omitted. Use one gallon of limesulphur to forty gallons of water, and repeat in ten or twelve days if the



St. Clair County Maple Syrup House.

be done there will be little danger of tinue the applications on winter apattack by fungi, since the spores of ples until August first, or even later. fungi cannot germinate where there is At no time should more than four weeks clapse without spraying and it According to the condition of the should not be delayed more than two weather there is danger from the at. or three weeks in wet seasons. In tack of the fungi from the time the most, if not all of the applications, an

By following these suggestions and spraying the trees thoroughly, from ninety-five to ninety-nine per cent of In ordinary seasons we can figure the fruit will be free from apple scab

L. R. TAFT, State Inspector of Orchards.



## Crops to Grow in Place of Sugar Beets

(Continued from page 666). spring wheat. All of these crops, cats, the land. barley and spring wheat, are very likeand cattle.

Alfalfa and Clover.

er crops result.

clover hay and seed. In getting land crops.

Bay City, Michigan ern-grown alfalfa seed be planted, any other crop.

properly inoculated, and ground limeyields are frequently secured with stone or sugar beet lime applied to

If clover is seeded, red clover of a ly to meet a dependable demand. Bar- mixture of red and alsike is recomley and oats make excellent feeds. The mended. In view of the scarcity of red barley crop, in particular, can be dis-clover seed and its high price many posed of by feeding to hogs, sheep may find it practical to plant a mixture of red and alsike clover in the proportion of four pounds of red and two Alfalfa and clover are both crops pounds of alsike. Alsike seed being which may be well seeded down on much smaller, goes twice as far, while any Michigan land and not specially the cost per pound is about the same. needed for other crops. If the sugar Sugar beet soils is very well adapted beet market is off, from the farmer's to alsike clover. On sugar beet land, standpoint, what better thing could be which is not very well drained, alfalfa done with land, formerly given over to should be avoided and alsike seed used the production of beets, than to seed instead, or a mixture of alsike, red cloto alfalfa, using a light seeding of oats ver, and timothy, using two pounds of or barley as a companion crop? Not alsike, four pounds of red, and from only will the alfalfa furnish excellent two to four pounds of timothy per acre. returns, either as a feed crop or a The abnormally strong demand for clen the land is brok- ver seed will very likely continue for en, after several years in alfalfa, great- a number of seasons, hence red clover er crops of corn, beans, beets, and oth- with small grains at the rate of eight to ten pounds per acre, or alsike alone, Much the same can be said for clo-using four to six pounds per acre to ver. There is at present a shortage of be handled for seed are much needed

in small grains seeded with clover, It is to be sincerely hoped that price both from the standpoint of the gen- arrangements and labor conditions at eral balance of the crops market, and planting time, are such that Michigan in improving the land, which has been, farmers will be encouraged in growing in many instances hard run by several the beet crop, and that there will be years of meeting war demands, sure no need, from the market standpoint at least, of using land which would be The suggestion is made that north-planted ordinarily to sugar beets, for



WHEN you are ready to paint, remember that there are more than 50 distinct Heath & Milligan Products, a suitable one for each kind of surface around the farm and home. They will all prove to be the cheapest in the end for you to use. Will cost less per year of service.

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How to renew old furniture. How to treat cement. How to prevent rust on metal. How to treat plastered walls. How to prime new wood.

What to do with bare floors. How to refinish your car. How to beautify your rooms.

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Hale, H. E. Nunn Hand Station, John L. Thies Harbor Springs, C. D. Lane Hartford, M. A. Engle Hastings, Hastings Lumber & Coal Co.

Hessel, Fenlon Bros. Holland, Scott Lugers Lumber Co, -

Iron Mountain, John Strong Ironwood, Olson-Bergquist Ishpeming, Ishpeming Co-op.

Jamestown, Nick Van Haits-

Lake City, R. M. Bielby-21 Laurium, J. Vivian Jr. & Co. Leslie, Holiday Lumber Co. Levering, Wm. DeKruif Co. Ludington, H. Abrahamson Manton, Chas. H. Bostick-20 Marcellus, C. R. Miller Marshall, F. G. Seaman & Co. McCords, R. E. Colby Mt. Pleasant, Breidenstein &

Napoleon, L. M. Godfrey Niles, H. T. Richter

Northport, Kehl Mercantile

Nunica, E. S. Baldus Omer, Mich., J. K. Mead Ontonagon, Casper Roosen Otsego, A. E. Wilson Overisel, Willis G. Hulsman

Pentwater, Sands & Maxwell Lumber Co. Pequaming, Chas. Hebard &

Portland, Builders' Lumber & Supply Co. Prescott, The Eymer Co.

Remus, A. J. Huber-Roscommon, Rutledge Bros. St. Johns, Van Sickle &

Glaspie Sand Lake, Sand Lake Pharmacy

Skanee, Axel Erickson Stanton, M. H. Bachman Sturgis, Tobey & Jackman Suttons Bay, L. R. Sogge Three Rivers, T. J. Reed Es-

Trout Creek, Trout Creek Turner, Turner Hdwe. Co. Wakefield, Myers Co.
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If you want your store to be Paint Headquarters, arrange to have your name listed like these.

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Nappanee, Dunham & New Carlisle, Zeck Bros.

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1831 Seward St., Chicago, Ill. I plan to paint or varnish as checked below: Please send complete information.

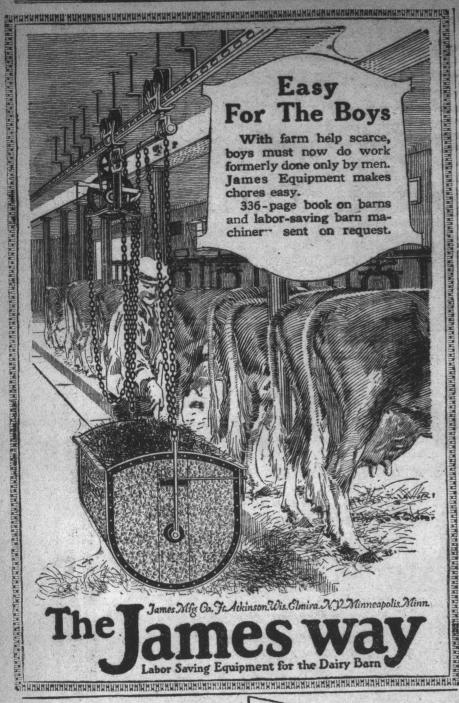
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Mention The Michigan Farmer When Writing Adveltsers

Sweet Clover, \$40.00; Sheep and Hog Reper 100 lbs.

HEATHERNAO RANOH,

## The Public Auction Sale

By J. H. Brown

printed eighty-three of these farm auc- spring in this and in other necks c tions during the last six weeks. Not the woods ever since Alcibiades star all of them have had the same head- ed the auction fad in old Athens ing as above, but a good many have Greece, about four hundred and twent and it shows a serious situation.

tenants have made enough working also had a confirmed itching spell dur one or more various farms for a num- ing which he picked up, gathered, at they now will quit working large farms torious mundane sphere. Alci. trie on shares and go onto a small farm to auction off his old truck to the luxury.

for quite a long term of years. They not to have pulled the wool over the in sight now.

TAVING decided to quit farming, cially after lunch, if the hot coffee an the undersigned offers for sale," fried holes were a plenty and all the

and so forth. should be.

In our own city daily paper we have "It's been that way every winter an years before Christ. Alci. was a bor Some of the auction sales show that talker and more or less tricky. \ H ber of years past and have now bought quired and took possession of, variou a farm of their own. Still others have and sundry gimeracks, waterworks an been paying installments on a small farm machinery fashionable to thos farm bought several years ago and days in the history of our already no where they hope to be able to do the neighbors, after running an advertise most of the work themselves and be ment in the classified column of th more or less free from the hired man Nightly Athenian and on handbill plastered on the marble columns of th In fact, these tenant farmers have Parthenon. He offered for sale, it i done pretty well working others' farms reported, a lot of old truck that ough have saved and planned for a small eyes of the excited bidders. But the farm of their own in the sweet by and bit, nevertheless, and bought a piece by and that little place of their own is of the horn of the Ram of the Golder Fleece, a portion of the stern pinches These tenant farmers have been of off the Argonauts' cruiser "Argo," on a class that is an honor to our coun- of Socrates hemlock recipes and try. From henceforth they will be coupla water screws that formerly be land owners and first-class citizens. longed to Archimedes. The ball bear We know this is true, for we have late- ings on the lower end of both these ly made quite a thorough investigation screws were badly worn, but some at the request of the editors of the farmer bid 'em off to fix up his home Michigan Farmer. We might mention waterworks. Alcibiades was a sharp a score of farmers in our home sec- cuss. Besides helping to invent auc



A Typical Farm Auction Scene.

sired one of farm owner.

And so these auctions, so many hun- early spring. dreds of them in almost every section . And since that time farm auctions of the country, do not all show aban- have been the rage every spring. They donment of farms. It means in some got into Michigan in an early day cases that the sale of farm implements, along with the fever and ague, and ox live stock, and so forth, is held to get teams, grub hoes, and so forth. And rid of a lot of stuff that may have been we will have 'em with us every spring owned by the tenant and the owner of to come until the last auctioneer orator the farm, and the auction sale is look- dies without any progeny or trailer to ed upon as the quickest and best means fill his bill. of settling up before moving day.

actly what the newspaper advertise one to seven miles to vote on tow he sells out everything from the curry tion since New Year's Day. comb in the barn to the old washtub The accompanying picture shows a the excitement of the hour, and espe- almost was sold before milking time,

tion whom we personally know who tions, he one day went out on the back have passed from the classification of lawn and cut off his own dog's tail so a tenant farmer to the much-to-be-de the neighbors might have something to talk about during a dull spell in

There are many farmers who think There are other sales that mean ex- it is a great chore to have to go from ment and printed handbills say: "Hav- meeting day in April. But they never ing decided to quit farming, the under- grumble over the ordeal of walking, signed offers for sale" a whole lot of wading or driving several miles in the stuff. He is sick of farming and few mud and wet to attend a farm auction. of us can blame him. He is getting And some of them go to a dozen or old, has not a single boy left at home more every spring. And this spring to help him, help is worse than scarce, we suppose there is at least one farmthe farm doesn't pay anyhow, and he's er in Michigan who has already attendgoing to quit the roost for keeps. So ed his twenty-fifth (more or less)) auc-

in the woodshed that his grandmother typical auction on a farm in Kalamaused before the Civil War. And some- zoo county. It was a cold, raw day in body treads on the corns of his near early March, but a good crowd was on est neighbor to bid off the stuff under hand and every last thing on the place

## Steels

## Make the Maxwell Thrifty

SEVERAL million dollars have been expended to provide more elegance, more refinement, more comfort to the current Maxwells.

It is in ever so many ways a superior appearing car; superior, too, in action.

But not a single pound of weight has been added to burden the work of its great engine!

Therefore, despite the many processes of improvement, it doesn't cost a penny more to run a Maxwell than it did a year ago.

The underlying principle of every Maxwell is to give economic transportation.

This means light weight. But it means strong steels, as well.

It is no easy trick to provide both lightness and strength in metal. Such a rare combination means high cost steels.

And you would find, if you compared a Maxwell with any car, that it equaled that car pound for pound in fine metals.

How such steels affect your pocketbook is obvious.

1. They are light in weight and hence give more mileage on a gallon of gasoline.

2. As they are fine steels they give long and uninterrupted wear.

Which are but two of many reasons for that definite tendency of world-wide friendship towards Maxwell.

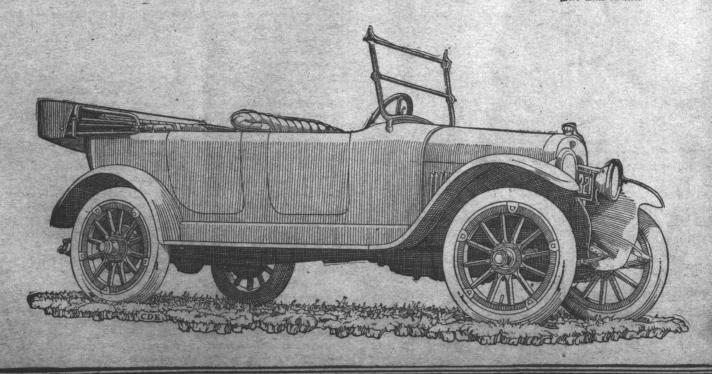
In six years nearly 400,000 have found their answer to the motor car question in a Maxwell.

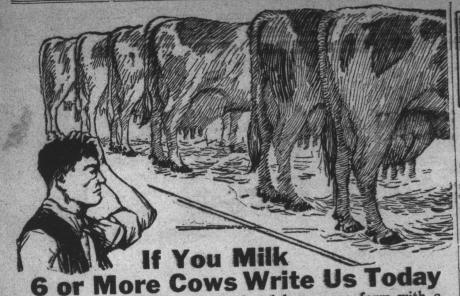
This year 100,000 Maxwells are being produced.

This will supply but 60% of the demand.

MAXWELL MOTOR COMPANY, INC.
DETROIT, MICHIGAN







You can make milking the easiest job on your farm with a mechanical milker-you can double your dairy dollars in saving time and labor. All these are facts we want to send you—facts you need to make the most money from your herd. It's all made possible with the

With the "See-Thru" Teat Cup

The milking machine that more closely imitates the sucking calf (nature's way) than any milker made and you can see at all times when tests are milking. It milks with a smooth, uniform action. Cows like it and give down their milk freely. Suction is soothing and gentle. It's a milker that's positively Safe, Sanitary—no metal touches the tests or udder. It's simple and light in weight—a boy or girl can handle it easily. It takes little power—costs little and up-keep is trifling. Write us at once for full particulars.



UNITED ENGINE COMPANY usolens Bugines, Kerosene Engines, Feed Mills, Light Plants, Washing Machines.



### Let the PHONOGRAPH -not a salesman convince you of its quality

You may try this for ten days in your own home

Tis a wonderful reproducing instrument. True and clear, equipped with silent mechanism, and adjustable to play any kind of disc record made. It is a better Phonograph—it is a

## Gornish

We send 12 double disc records—24 selections—with it, and if at the end of the 10 days you wish to, you may return it and we will pay freight both ways. We sell at factory price. Our terms are very liberal—wenake them to fit your pocket book. Writetoday for The Cornish Phenograph Booklet and full information regard-



Cornish Co



YOUNG - RANDOLPH SEED COMPANY,
Owosso, Michigan



# **AUTO FINISHES**

I Can be smoothly applied by anyone because of the water-proof, self-leading Chinese Oil they contain. No laps or brush marks even if put on with a whisk broom. Color if put on with a whisk broom. Color and gloss in one operation. Dry in 48 hours. Each can tells how to use it.

Farm Equipment

Every up-to-date farm horses and dairy com-relieved of winter cont-

## Our Service Department

#### ADVERSE POSSESSION.

A man has an undivided interest in a piece of land. The other party conveys the land by warranty deed, and several conveyances have been made covering a period of twenty-five years and no action had been taken in regard to his claim of peaceable possession dwied should lost from the season in August before being placed in the ground.

Catalpa speciosa body posts are better than the cedar posts found on the market today and when properly airand no action had been taken in regard to his claim of peaceable possession during that time up to the present. Is his claim valid? Is it necessary for one man to have peaceable possession fifteen years to give him a perfect title?—O. N. C.

one-half interest; but by the adverse made from selected trees of years past. exclusive possession for fifteen years one-half the owner has been barred. J. R. R.

#### LAND CONTRACT.

A man buys a place on a contract but does not keep it up so that the contract becomes void, but through kindness the owner of the land allows him to stay there and live in peace-able possession and pay the taxes. Can he, after so long, claim a deed of this property? If so, after what length of time?—E. M.

payments makes the contract void. This is not so. The contract remains in force until the seller serves notice on the buyer of forfeiture for failure to perform; and even after service of notice of forfeiture, the buyer can still redeem until his right has been properly foreclosed by legal proceedings or until he has by some act of his precluded himself to claim that he is still entitled to the property under the continuous and the property under the continuous as well as myself?—C. K. J. R. R. tract.

#### BREACH OF WRRANTY.

A sells B a horse for \$150. The horse appeared to be all right excepting a wind-puff on front joint. B accepts the horse with that blemish, stating at time of purchase that the horse would have to be right in every other respect or it was no sale. It developed that the horse can do no heavy drawing without his hock joints swelling. Does A have to take the horse ing. Does A have to take the horse back and return B's note given in payment? Can B collect damages from A for putting such a horse on him when A knew the horse was in such a condition?—D. W.

for damages for breach of contract, or ed eighty-four bushels of speltz from to rescind the contract, return the tot, and the seeding looked splen-torperty, and recover the amount paid by him. If after knowledge of the breach he continues to keep and use seeded it to speltz and alsike. Threshed eighty-four bushels of speltz from the lot, and the seeding looked splential looked breach, he continues to keep and use the property this is an election by him to confirm the contract, and thereafter he can only recover the damages for with a crop of clover seed than almost breach of the warranty. He cannot any other crop we can grow. I am of J. R. R. rescind.

#### CATALPA TREES FOR POSTS.

each post. Posts cut in the spring or growth.

late winter should be peeled at once, and piled there to await and season

dried should last from four to ten years longer. The average cedar posts lately examined by the writer carry a large per cent of sap wood and are consequently not so durable as were The deed conveyed only undivided the more slowly grown posts that were

As to relative money values I would under claim of right of title of the other say that well-seasoned body wood catalpa posts should be worth from ten to fifteen cents more per post than cedar, meaning, of course, white cedar.

It must be remembered, however, that size of the post at the ground, and shape, if a split post, whether square, triangular or nearly flat, plays an important part in the durability. and preference must be given to the round and square posts. A diameter at ground of six inches, or at top of four inches, should furnish the unit of E. M. assumes failure to keep up the comparison for determining value.

F. H. S.

#### FARMING ON SHARES.

In the absence of agreement to furnish anything beyond what is produced by the tenant from the premises the tenant would be liable to the owner for the value of anything furnished by the owner at the time the tenant took possession, the same as if the same goods had been furnished by an-

J. R. R.

ment? Can B collect damages from A for putting such a horse on him when A knew the horse was in such a condition?—D. W.

Where an article is sold with warranty as to quality, which is later discovered to be broken, the buyer has the right to keep the property and sue for damages for breach of contract, or

Iosco Co.

The season has more to do probably the opinion that a good top-dressing of stable manure early in the spring would be a splendid investment. I should say it ought to be put on with I have about one thousand catalpa a manure spreader to get it evenly disspeciosa trees large enough for fence posts. How do they compare with cedar as to durability, and about what should I charge for them? Should they second growth will come up and probe peeled before setting? Subscriber. I wish to answer the last part of the clover usually has very little seed. inquiry first by saying that too much This clipping ought to be done before emphasis cannot be laid on the neces- the first crop heads out, if possible. sity for peeling all kinds of timber be Usnally along about the first of June fore placing it in the ground. Not only is the right time, but here one must should your catalpa posts be peeled take into consideration the season. If but they should be thoroughly air-sea- this field would be top-dressed with soned for from three to six months af- coarse manure and not done very evter cutting. Pile the peeled posts up enly it would interfere in running the in triangular or square crib piles, well mowing machine to clip it. This, topraised above the ground by posts, dressing will tend to form a mulch and stones or other form of support, so hold the moisture so that you will be that air may circulate freely about much more apt to get a good second

#### RAISING BABY CHICKS.

I would like some information on

fifty or sixty hours old, as this gives the egg yolk a chance to be absorbed and places their system in condition to receive food. Sour milk or buttermilk fed in sanitary fountains is a help in preventing white diarrhea and other digestive disorders.

We like to feed baby chicks dry oatmeal for the first feed and continue it for the first week. About five feedings each day will be necessary. And only give them the amount they will clean up in a short time. A hopper of bran near the brooder will be beneficial as bran seems very helpful to the chicks and they will not eat too much of it. Of course, they need grit before their first feed. We used to feed them commercial grit but now believe that sand gives them all the bits of grit they need. Fine clover chaff or sprouted oats will furnish green food until the chicks can run out on the ground. If they can run on a clover sod soon after hatching we do not find it necessary specializing in exhibition Barred Rocks. to supply other green food.

When the chicks are about a week old they can be given the fine scratch feed sold commercially for raising the chicks. This can be continued until they are old enough to eat wheat and cracked corn.

We do not advise the making of brooders at home because of the fire risk and danger to the chicks if the brooders are not made right. There are so many brooders on the market at reasonable prices that it hardly ing by the shoe manufacturers and pays to make them. Occasionally heaters are advertised in the poultry journals which can be installed in is evidently favorably impressed with wooden boxes. This gives a brooder at a low price but we do not believe they are usually as satisfactory as the manufactured brooders. Chicks are so expensive at the present time that the poultryman cannot afford to risk them in anything but the best of brooding by its friends that the committee may R. G. K.

## RATION.

Please outline a balanced ration for cows fresh. I have enough ensilage to feed only about twenty-five pounds per cow per day. I have plenty of bean pods in fine shape, also cut corn fodder in a large quantity. Also clover and timothy hay; more timothy than clover in hay. I have been feeding as follows, but am not satisfied with results: A small feed of about eight pounds of ensilage in the morning, and all the cut corn fodder they will eat. Watered at nine o'clock, bean pods at noon, or hay, alternating each day. A full feed of about twenty-two pounds of ensilage at night, watered at four p. m. In addition to this I have been feeding the following grain ration, about one pound of grain to each four pounds of milk: Corn, ground fine, 200 lbs; bran 200 lbs; middlings 100 lbs; oats 100 lbs; cottonseed, thirty-eight per cent, 150 lbs.

These are all good foods in this ra-Please outline a balanced ration for

These are all good foods in this ration, including both roughage and conyou would get a little better results by yet the wheat bran and the cottonseed sibly they are not milked properly. can be prevented. A compulsory court And again, the barn may be too cold, but I can offer no suggestion with regard to proper care, of course, without -E. E. R. making a personal investigation, but

#### MATING BARRED ROCKS.

bred cockerel or a cockerel bred pullet, etc.?—G. E. C.

To produce exhibition Barred Rocks how to care for and feed baby chicks, many breeders use what is called dou-also how to make a brooder at home. ble matings. The light or pullet-bred Indiana. Mrs. G. H. matings are used to produce exhibition Baby chicks should not be fed until matings are used to produce exhibition matings produce the exhibition cockerels. This is done because the standard of perfection calls for the male and female of the same color. Many breeders object to the present method of breeding Barred Rocks and believe that they should be made into two breeds, the Light Barred Rocks and the Dark Barred Rocks.

Some breeders produce their Barred Rocks by the single mating system. Of course, nature takes its course and the cockerels are lighter than the pullets. In raising bred-to-lay Barred Rocks under farm conditions there is little attention given to double matings as the purpose is to obtain vigorous stock of good laying ability and not to show the birds in competition. The best exhibition Barred Rocks are produced through double matings.

You can obtain a pullet-bred cockerel or a cockerel-bred pullet by corresponding with some breeder who is At most of the poultry shows these birds will be exhibited and it gives the breeder a chance to study the males and females in both the dark and light lines. Some breeders confine their operations to breeding either the dark or light line while others have both mat-R. G. K

#### WASHNGTON NEWS LETTER.

(Continued from page 662).

The senate committee on agriculture the Muscle Shoals nitrate bill, but the proposition has found little encouragement in the house, where politics has hindered the proposed measure. Hearings are being held before the house agriculture committee, and it is hoped be able to see the matter in the light UNSATISFACTORY RESULTS WITH of the public good, and report favorably on the measure, which means a great deal to the future production of food on American farms. If the gov-

to fasten the Plumb plan of government ownership on the country, and centrates. It is barely possible that Senator Kellogg of Minnesota, declares that no set of men should be permitincreasing the per cent of protein and ted to take the nation by the throat and starve it to death. This point is meal in the ration ought to furnish the inevitable, that under our present denecessary amount. If the cows are not pendence upon the railroads as the arproducing what they ought to, I am in- teries for supplying the cities with clined to think that it is due to some food some plan must be devised wherething else rather than the ration. Pos. by strikes on transportation systems

my judgment is that this is a very in Detroit and saw the workmen making shoes in a big eastern factory. He says if men always worked like they do in the pictures there wouldn't be any trouble about under-production. I am raising Barred Plymouth Rock Oliver is thinking of hiring a movie chickens. Will you please tell me the different matings and how to make company to film his hired man during them, for instance, how to get a pullet having and harvest.



## The Measure of Progress

The progress of the past, as well as that of the future, is measured by criticism—for criticism exists only where there also exists faith in ability to improve.

We do not criticise an ox cart or condemn the tallow dip, for the simple reason that they are obsolete. During the reconstruction period through which our country is now passing, if the public does not criticise any public utility or other form of service, it is because there seems

to be but little hope for improvement.

The intricate mechanism of telephone service is, under the most favorable conditions, subject to criticism, for the reason that it is by far the most intimate of all personal services.

The accomplishment of the telephone in the past fixed the quality of service demanded today; a still greater accomplishment in quality and scope of service will set new standards for the future.

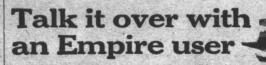


AMERICAN TELEPHONE AND TELEGRAPH COMPANY AND ASSOCIATED COMPANIES

One Policy

One System

Universal Service



MANY dairymen who have been using Empires now for over five years tell us that their machines are in just as good condition now as they were when installed. Pretty good evidence of Empire quality of material and construction this, but even more important they also report their cows in as good or better condition than before the machines were used.

There's probably an Empire user not far from you. If you'll write us we will tell you his address. Ask for catalog 23-M "The Standard of the Better Dairies"

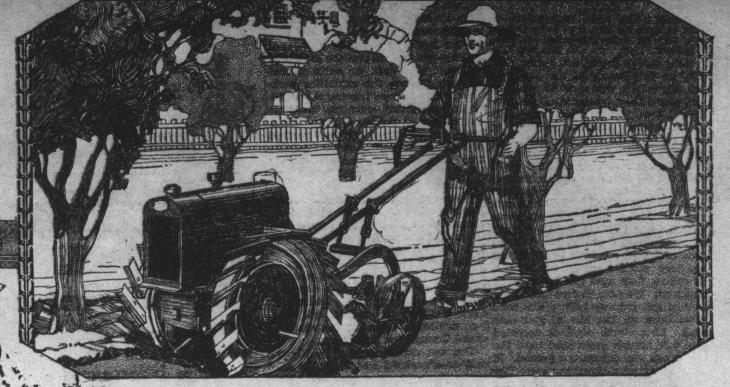
EMPIRE CREAM SEPARATOR CO., Bloomfield, N. J. Also manufacturers of The Separator with The Million Dollar Bowl Chicago, Denver, Atlanta, Toledo, Syracuse, Minneapolis, San Francisco, Montreal, Toronto



# Invented

Blast out those Stumps and Boulders with Dynamite. Magazines in all parts of United States. Write us for prices. ACME EXPLOSIVES CO. Terre Haute. Indiana.

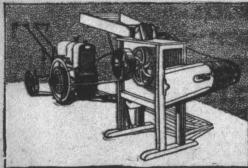








The Utilitor has no equal for one-row nursery truck garden or berry cultivation



One of many belt uses: Operating corn sheller



Nature of soil

Bolling?

## You Simply Can't Farm Under Present Conditions to the Best Advantage Without a Utilitor

Farmers are making REAL MONEY by using their brains and letting the Utilitor do the work. This whole UTILITOR proposition is purely a matter of DOLLARS and SENSE. To show a profit on your farm you must make more money and SPEND LESS.

By working TWENTY-FOUR HOURS a day, if need be, at a cost to you of approx-imately FIVE CENTS AN HOUR for "gas" and oil, the Utilitor cuts farm wages in

half, saves horse feed and shaves your table expenses by ridding you of a lot of HUN-GRY" HANDS". It does all that one good strong horsecando, PLUS all that one good gasoline engine can do. It is made by the Midwest Engine Company—one of the strongest and fairest factories in America
a factory that absolutely guarantees
the Utilitor to DO its work properly. This
guarantee is IRON CLAD and means exactly what it says.

# DWEST

#### The Safest and Most Practical Orchard and Fruit Worker Yet Devised

The Utilitor is especially well adapted for work in orchards. We offer a disc, for work in orchards. We offer a disc, spike tooth harrow, spring tooth harrow and a set of cultivating tools, any of which are suitable for orchard cultivation. With our hitches a wide range of adjustments for these various tools is possible. The Utilitor is only 36 inches high, pemitting cultivation beneath low hanging branches much closer to trunks of trees than is possible when horses are used. There is no danger of the Utilitor nipping fruit and branches. It is so easily controlled that the operator need have no fear of injuring trunks of trees, surfaced roots or branches as is the case with horse cultivation. with horse cultivation.

Cuts Expenses to the Bone and Does Better Work for

especially adapted to the truck gardener's use. The three row gang seeder permits the drilling or hilling of 35 different kinds of seeds in rows varying in width from 9 to 36 inches. Our one row cultivator and disc are adapted for cultivation both astride and between rows, for the Utilitor has a vertical clearance of 10 inches and a horizontal clearance of 10 inches between the bull wheels. Equipped with cultivating rims the Utilitor is 18 inches wide, so it may easily pass between the rows of rims the Utilitor is 18 inches wide, so it may easily pass between the rows of larger crops. Our three row cultivator is designed to cultivate the crops planted with the three row gang seeder. With our set of cultivating tools a number of combinations can be arranged for various kinds of cultivating, both deep and shallow, astride or between rows of and shallow, astride or between rows of different widths.

The Utilitor Will Thoroughly Motorize Your Farm

A number of implements which we recommend for use with the Utilitor are

The Utilitor is a portable gas engine for driving belt machinery requiring not over 3 horse power. Remember this machine will move from job to job under its own power. It is the untiring

friend of man and woman. It gladly helps lift the burden of work around the house or barn yard. Some of the belt uses of the Utilitor are, operating corn sheller, cream separator, washing machine, churn and charging batteries for an electric lighting set. It can also be used, in conjunction with a cart, to feed stock or haul one horse loads around the place.

No self-propelled farm equipment designed in recent years offers a wider range of usefulness in the field or on the belt than a Utilitor.

#### **DEALERS**

The Utilitor is the most active merchandise on the market today because farmers NEED it 365 days out of the year. Our selling plan is so complete and plan is so complete and thoroughly financed that we are positive our plan will interest you. Territory is being rapidly allotted. WRITE FOR OUR SELL-ING PLAN TODAY!

MIDWEST ENGINE COMPANY, Indianapolis, U.S.A.

ependable P

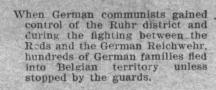
## WORLD EVENTS IN PICTURES



Prohibition leaders are opening a whirlwind campaign to rout John Barleycorn from his lair in Japan.



These U.S. sailors are enroute to England to bring back the huge dirigible R-38,



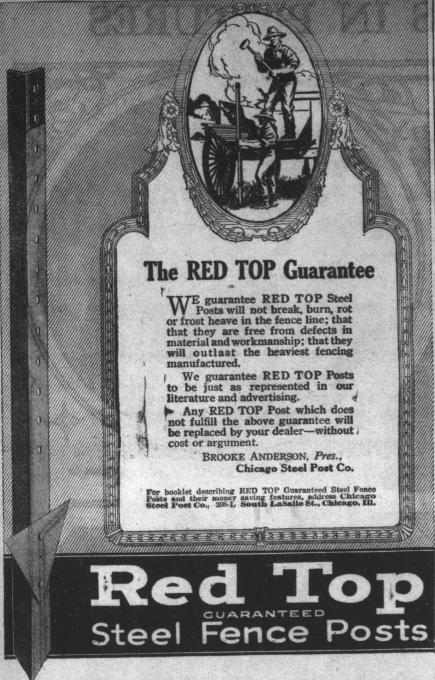


Former President Taft, apparently in good health, and Nathan Strauss enjoying the spring weather on the golf links of the Country Club at Augusta, Ga.



Gen. Degoutte, commander of the French forces now occupying Frankfort and other German cities and towns in retaliation for German occupation of neutral territory.

This picture shows troops of the unsuccessful Von Kapp government suppressing a demonstration by the populace in Berlin; the troops were afterward ousted by old government forces.



We will send you as many gallons as you want of good quality red or brown

## BARN PAINT

AMALGAMATED PAINT CO.

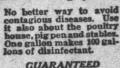






## Dr. Hess Dip disinfectant

Now is the time to get out the sprinkling can and make a liberal use of Dr. Hess Dip and Disinfectant. Spring is cleaning-up time.
Dr. Hess Dip and Disinfectant is a powerful germ
destroyer. It establishes
health conditions. Use it in garbage cans, sinks, drains, closets, cesspools, all damp, foul-smellingand disease breeding places.



Dr. HESS & CLARK Ashland, Ohio



## THE VALLEY OF THE GIANTS

A ROMANCE OF THE REDWOODS

By Peter B. Kyne

of Midget?"

ner; hence I take it that you are quite snow-covered ranges to their right. ready to start."

"Quite, Mr. Cardigan."

blown about."

her and took the wheel.

redwoods?"

Pennington, speak of them."

nation.

but he's logged out now."

"I see. So he came west, I suppose, and bought a lot of redwood timber cheap from some old croaker who nev- a minute to appreciate it?" er could see any future to the redwood lumber industry. Personally, I don't think he could have made a better investment. I hope I shall have the pleasure of making his acquaintance when I deliver you to him. Perhaps you may be a neighbor of mine. I hope so."

the conversation, essayed a grunt from the rear seat. Instantly, to Shirley broke into a series of grunts and guttural exclamations which evidently appeared quite intelligible to her host, for he slowed down to five miles an apparently he was profoundly interested in whatever information his henchman had to impart. When George Sea Otter finished his harangue, Bryce nodned and once more gave als to tossing the miles behind him.

mother was my nurse, and he and I In orchard bare, on leafless lawn; grew up together. So I can't very well To build their nests beside your door help speaking the language of the And rear their young as oft before. tribe."

They chattered volubly on many subjects for the first twenty miles; then the road narrowed and commenced to climb steadily, and thereafter Bryce gave all of his attention to the se, N.Y. car, for a deviation of a foot from the

"Better late than never, Mr. Cardi- wheel-rut on the outside of the road gan, considering the predicament in would have sent them hurtling over which you found me. What became the grade into the deep-timbered canyons below. Their course led through "Midget, I regret to state, made a a ugged wilderness, widely diversified little pig of herself one day and died and transcendently beautiful, and the of acute indigestion. She ate half a girl was rather glad of the opportunity sack of carrots, and knowing full well to enjoy it in silence. Also by reason that she was eating forbidden fruit, she of the fact that Bryce's gaze never bolted them, and for her failure to wavered from the road immediately in Fletcherize—but speaking of Fletcher- front of the car, she had a chance to izing, did you dine aboard the train?" appraise him critically while pretend-She nodded. "So did I, Miss Sum- ing to look past him to the tumbled,

She saw a big, supple, powerful man of twenty-five or six, with the bearing "Then we'll drift. George, suppose and general demeanor of one many you pile Miss Sumner's hand-baggage years his elder. His rich, dark auburn in the tonneau and then pile in there hair was wavy, and a curling lock of yourself and keep Marcelle company, it had escaped from the band of his I'll drive; and you can sit up in front cap at the temple; his eyes were brown with me, Miss Sumner, snug behind to match his hair and were the strikthe wind-shield where you'll not be ing feature of a strong, rugged countenance, for they were spaced at that "I'm sure this is going to be a far eminently proper interval which propleasanter journey than the stage claims an honest man. His nose was could possibly have afforded," she said high, of medium thickness and just a graciously as Bryce slipped in beside trifle long-the nose of a thinker. His ears were large, with full lobes-the "You are very kind to share the ears of a generous man. The mouth, pleasure with me, Miss Sumner." He full-lipped but firm, the heavy jaw and went through his gears, and the car square chin, the great hands (most glided away on its journey. "By the amazingly free from freckles) denoted way," he said suddenly as he turned the man who would not avoid a fight west toward the distant blue moun- worth while. Indeed, while the girl tains of Trinity County, "how did you was looking covertly at him, she saw happen to connect me with Cardigan's his jaw set and a sudden, fierce light leap up in his eyes, which at first sight "I've heard my uncle, Colonel Seth had seemed to her rather quizzical. Subconsciously he ifted one hand from "Colonel Seth Pennington means the wheel and clenched it; he wagged nothing in my young life. I never his head a very little bit; consequentheard of him before; so I dare say he's ly she knew his thoughts were far a newcomer in our country. I've been away, and for some reason, not quite away six years," he added in expla- clear to her, she would have preferred that they weren't. As a usual thing, "We're from Michigan. Uncle was young men did not go wool-gathering formerly in the lumber business there, in her presence; so she sought to divert his thoughts to present company.

"What a perfectly glorious country!" she exclaimed. "Can't we stop for just

"Yes," he replied abstractedly as he descended from the car and sat at her feet while she drank in the beauty of the scene, "it's a he country; I love it, and I'm glad to get back to it."

Upon their arrival at the rest-house, however, Bryce cheered up, and during dinner was very attentive and mildly amusing, although Shirley's keen wits who had been an interested listener to assured her that this was merely a clever pose and sustained with difficulty. She was confirmed in this assumption when, after sitting with him ed also; whereupon George Sea Otter a little on the porch after dinner, she him good-night. She had scarcely left him when he called:

"George!"

The half-breed slid out of the dark-

#### SONG OF THE SPRINGTIME.

BY RUTH RAYMOND. "What language was that?" Shirley I come, I come to valleys bare
Summer inquired, consumed with curlosity.

"Discon Indian" he replied "George's And bring the happy birds with me

(1

I come, I come with azure skies, And rainbows to delight your eyes That you may soon forget the snows And all the Winter's nameless woes, With grasses green and blooms of gold I carpet now the barren wold.
A hundred longed-for joys I bring To comfort you who love the spring. ment later, through the open window of her room just above the porch where Bryce and George Sea Otter sat, Shirley heard the former say:

"George, when did you first notice that my father's sight was beginning

"About two years ago, Bryce."

"What made you notice it?"

"He began to walk with his hands held out in front of him, and sometimes he lifted his feet too high."

"Can he see at all now, George?" "Oh, yes, a little bit-enough to

make his way to the office and back." "Poor old governor! George, until you told me this afternoon, I hadn't heard a word about it. If I had, I never would have taken that two-year jaunt around the world."

George Sea Otter grunted. "That's what your father said, too. So he wouldn't tell you, and he ordered everybody else to keep quiet about it. Myself-well, I didn't want you to go home and not know it until you met

"That was mighty kind and considerate of you, George. And you say this man Colonel Pennington and my father have been having trouble?"

"Yes-" Here George Sea Otter gracefully unburdened himself of a fervent curse directed at Shirley's avuncular relative; whereupon that young lady promptly left the window and heard no more.

They were on the road again by eight o'clock next morning, and just as Cardigan's mill was blowing the six o'clock whistle, Bryce stopped the car at the head of the street leading down to the water-front. "I'll let you drive now, George," he informed the silent Sea Otter. He turned to Shirley Sumner. "I'm going to leave you now," he said. "Thank you for riding over from Red Bluff with me. My father never leaves the office until the whistle blows, and so I'm going to hurry down to that little building you see at the end of the street and surprise him."

He stepped out on the runningboard, stood there a moment, and extended his hand. Shirley had commenced a due and formal expression of her gratitude for having been delivered safely in Sequoia, when George Sea Otter spoke:

"Here comes John Cardigan," he

"Drive Miss Sumner around to Colonel Pennington's house," Bryce ordered, and even while he held Shirley's hand, he turned to catch the first glimpse of his father. Shirley followed his glance and saw a tall, powerfully built old man coming down the street with his hands thrust a little in front of him, as if for protection from some invisible assailant.

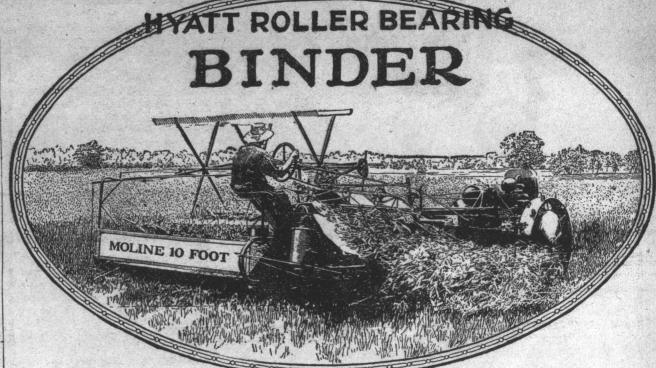
"Oh, my poor old father!" she heard Bryce Cardigan murmur. "My dear old pal! And I've let him grope in the dark for two years!"

He released her hand and leaped from the car. "Dad!" he called. "It is I—Bryce. I've come home to you

The slightly bent figure of John Cardigan straightened with a jerk; he held out his arms, trembling with eagerness, and as the car continued on to the Pennington house Shirley looked back and saw Bryce folded in his father's embrace. She did not, however, hear the heart-cry with w en old man welcomed his boy.

"Sonny, sonny-oh, I'm so glad you are back. I've missed you. Bryce, I'm whipped-I've lost your heritage. Oh, son! I'm old-I can't fight any more. I'm blind-I can't see my enemies. I've lost your redwood trees-even your mother's Valley of the Giants.

And he commenced to weep for the third time in fifty years. And when the aged and helpless weep, nothing is more terrible. Bryce Cardigan said no word, but held his father close to his great heart and laid his cheek gently against the old man's, tenderly as a



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woman might. And presently, from that silent communion of spirit, each drew strength and comfort. As the shadows fell in John Cardigan's town, they went home to the house on the

#### CHAPTER VII.

SHIRLEY SUMNER'S eyes were in obedience to the instructions of his youthful master, set her, the French maid, and their hand-baggage down on the sidewalk in front of Colonel Seth Pennington's house. The half-breed hesitated a moment, undecided whether he would carry the hand-baggage up to the door or leave that task for a Pennington retainer; then he noted the tear-stains on the cheeks of his fair passenger. Instantly he took up the hand-baggage, kicked open the iron gate, and preceded Shirley up the cement walk to the door.

"Just wait a moment, if you please, George," Shirley said as he set the baggage down and started back for the car. He turned and beheld her extracting a five-dollar bill from her purse. "For you, George," she continued. "Thank you so much."

In all his life George Sea Otter had never had such an experience—he, happily, having been raised in a country where, with the exception of waiters, only a pronounced vagrant expects or accepts a gratuity from a woman. He took the bill and fingered it curiously; then his white blood asserted itself and he handed the bill back to Shirley.

"Thank you," he said respectfully. 'If you are a man-all right. But from a lady-no. I am like my boss. I work for you for nothing."

Shirley did not understand his refusal, but her instinctive tact warned her not to insist. She returned the bill to her purse, thanked him again, and turned quickly to hide the slight flush of annoyance. George Sea Otter loted it.

"Lady," he said with great dignity, 'at first I did not want to carry your baggage. I did not want to walk on this land." And with a sweeping gesture he indicated the Pennington grounds. "Then you cry a little because my boss is feeling bad about his old man. So I like you better. The old man-well, he has been like father to me and my mother—and we are Indians. My brothers, too-they work for him. So if you like my boss and his old man, George Sea Otter would go to hell for you pretty damn' quick. You bet you my life!"

"You're a very good boy, George," she replied, with difficulty repressing a smile at his blunt but earnest avowal. "I am glad the Cardigan's have such an honest, loyal servant."

George Sea Otter's dark face lighted with a quick smile. "Now you pay me," he replied and returned to the car.

The door opened, and a Swedish maid stood in the entrance regarding her stolidly. "I'm Miss Sumner," Shirey informed her. "This is my maid, Marcelle. Help her in with the hand-baggage." She stepped into the hall and called: dunk!" "Ooh-hooh! Nunky-

"Ship ahoy!" An answering eall came to her from the dining-room, across the entrance-hall, and an instant later Colonel Seth Pennington stood in the doorway. "Bless my whiskers! Is that you, my dear?" he cried and advanced to greet her. "Why, how did you get here, Shirley? I thought you'd missed the stage."

She presented her cheek for his kiss. "So I did, Uncle, but a nice red-haired young man named Bryce Cardigan found me in distress at Red Bluff, picked me up in his car, and brought me here." She sniffed adorably. "I'm so hungry," she declared, "and here I am, just in time for dinner. Is my name in the pot?"

"It isn't, Shirley, but it soon will be. . How perfectly bully to have you with me again, my dear! And what a very charming young lady you've grown to be since I saw you last! You're-why you've been crying! By Jove, I had no idea you'd be so glad to see me again."

She could not forego a sly little smile at his egoism. "You're looking perfectly splendid, Uncle Seth," sh

"And I'm feeling perfectly splendid. This is a wonderful country, Shirley, and everything is going nicely with me here. By the way, who did you say picked you up in his car?"

"Bryce Cardigan. Do you know him, Uncle?"

"No, we haven't met. Son of old John Cardigan, I dare say. I've heard of him. He's been away from Sequoia for quite a while, I believe."

"Yes; he was abroad for two years after he was graduated from Princeton," Shirley replied.

"Hum-m-m! Well, it's about time he came home to take care of that stiff-necked old father of his." He stepped to the bell and pressed it, and the but ler answered. "Set a place at dinne for Miss Shirley, James," he ordered "Thelma will show you your rooms Shirley. I was just about to sit down to dinner. I'll wait for you."

While Shirley was in the living-room Colonel Pennington's features wore an expression almost pontifical, but when she had gone, the atmosphere of paternatism and affection which he radiated faded instantly. The Colonel's face was in repose now-cold, calculating, vaguely repellant. He scowled slightly.

"Now, isn't that the devil's luck?" he soliloquized. "Young Cardigan is probably the only man in Sequoiadashed awkward if they should be come interested in each other-at this time. Everybody in town, from lumberjacks to bankers, has told me what a fine fellow Bryce Cardigan is. They say he's good-looking; certainly he is educated and has acquired some worldly polish-just the kind of young fellow Shirley will find interesting and welcome company in a town like this. Many things can happen in a yearand it will be a year before I can smash the Cardigans.

(Continued next week).

#### Sunsnine Hollow Items

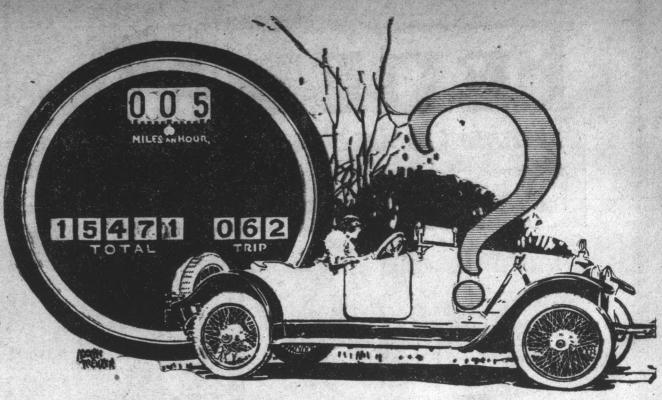
By Rube Rubicon

Peter Olney is true to all his superstitions. He has knocked on wood so many years that it has nearly become a religion. Yesterday we heard Peter brag that he had never had the flu. He was advised to knock on wood. Peter said he didn't believe in those things, but all the same I watched Peter and in a little while his knuckles were softly tapping the side of the chair in a sort of quiet way so the crowd wouldn't hear.

Richard Mosher had twin calves arrive at his farm last Monday morning. He calls one of them "onyx" because it was "onyxpected." Richard says that veal brings the easiest money he earns. And when the Ladies' Cheaper Food Club tried to pass a law to save all the calves, Richard went down and made them a speech. His motto is, "Good cows from all the calves can't grow." So he saves the best and advised the city club to disband and save

Albert Tooley is of a sympathetic disposition and every time he comes back from the city he repeats over and over to his father that he don't know what the farmers are going to do without any hired men now that city wages are so high. His father told him that they could do as well without hired men as the city folks could do with short rations, and it made Albert quite





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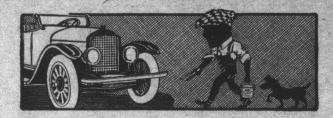
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## Woman's Interests

## Annual Spring Renovating

As a matter of fact, most farm like new. women could hardly do otherwise. With gardens and young fowls and can-dows than clear warm water, ammonia, ning and extra help to cook for in a clean lintless cloth and a good chasummer, just where is a woman going mois. Wash in water and ammonia, And winter in a house heated with one chamois. Too much ammonia dulls the or two stoves somehow doesn't awak glass, so be careful in its use. The en much enthusiasm for extra clean- woodwork, whether painted or varnishing. So it is probable that country ed, should be washed with clean, warm old way, until steam-heated houses diately after washing with a cheesecome the rule in farm homes. With a good furniture polish, and then poleveryone, city and country, this is "the ish with a dry cheesecloth. high tide of the year" for houseclean-

admonition to do only one room at a of turpentine and vigorously shaken, time. But isn't it fun to haul every- makes a good polish and will be suffithing out at once and after a week of cient for the whole housecleaning and upheaval, settle down again with the then some. Too much oil is worse feeling that if you haven't really mov- than none as it can not be absorbed had cleaned if you go about it leisure- instead of oil. This may be purchased ly and do a room a day. However, if in either liquid or solid form and, like done, let us get about it.

help.

clear day, with a good hot iron after, polishing. frequently with a clean cloth. When oiled papers which are used on so

N spite of the fact that for years this side of the curtain has dried, turn household engineers have been tell- it over and treat the other side in the ing us to spread our housecleaning same way. If the casing which holds out through the year instead of reserv- the stick at the bottom is tearing off, ing it for a grand overhauling in spring cut this part away entirely and turn and fall, there are still thousands of up a new hem. Make your stitch on housekeepers who go on in the old the machine as long as possible and way, letting things go for six months stitch the curtain on the machine. each year, and then indulging in one When it is in perfect repair, tack again wild orgy of overhauling and renovat- to the roller and your shade is almost

Nothing is better for cleaning winto find time to do much housecleaning? dry with the cloth, and polish with the women will continue on in the good water and a mild soap. Rub it immewith running water and electricity be- cloth which has been allowed to absorb

There are many good furniture poling anyway, so a few suggestions as to ishes on the market which may be the best and easiest way to do it may used on varnished surfaces, but a good home-made one costs less. A pint of Of course, there is the time-honored paraffin oil mixed with ten cents worth ed, at least you've had a change? and gums the finish. Waxed wood-Somehow you never feel as though you work or furniture should have a wax we must stick to one room until it is oil, should be lightly applied. Varnished or waxed floors should be treated To begin with, there are the win- the same as the woodwork, first a good Take down the curtains and cleaning with soap and water, then an shades. Soap and water and a bright application of oil or wax, and vigorous

will take care of the curtains, but what If papering is to be done you will about the shades? Are they cracked, save a good deal of money if you pre-faded and frayed at the edges? If they pare the walls yourself, as the labor is are, remove them from the roller and what counts this spring. In the cities with a straight edge and a good sharp paper hangers are charging from \$1.00 knife trim off the ragged edges. Then \$1.50 an hour, and the cost of papering spread the curtain out on a smooth an ordinary house is not less than \$200 flat surface and with a good clean paint or \$250. To remove the old paper, simbrush and a can of flat wall paint—as ply apply hot water with a whitewash nearly as possible the original color of brush to a small portion of the old pathe shade, go over it from top to bot- per, then after three or four minutes tom, using even strokes and as little scrape this paper off with a dull knife, paint as possible. After applying the or a scraper meant for this purpose paint, go all over again with a dry which you can buy for several times brush, to remove superfluous paint and less than the cost of hiring someone wipe out streaks. Wipe the brush off to take off the paper. To remove the

## Surprise Visitors—By Charles H. Meiers

Her house was in disorder,
With things all out of place,
When came her charming sister,
With bright and smiling face,
Together with her husband,
And their wild romping son,
To happily surprise her;
They thought it was such fun!

She had to quit housecleaning
And straighten things around
In order that sufficient room
For quarters might be found.
With half the task completed, And weary unto pain,
She had to change her program,
And gayly entertain.

A week of ceaseless duties
As hostess made her heart
Less happy, though reluctant
Was she with them to part.
And 'ere they left, an uncle,
With glad light in his eyes,
Arrived to pay a visit—
Another grand surprise.

She pravely smiled and made them
As happy as she could;
For she loved each one dearly
And wanted to be good. While they remained, a cousin, Who was just passing through, Knew she would be delighted— Soohe surprised her, too!

Before the second week passed She wore a haggard look; But still continued sweetly To entertain and cook. Her father and her mother Their glad dream realized,
And came without announcement—
Once more she was surprised!

Thus came her loved ones jolly With cunningness, which had
For its most worthy purpose
Design to make her glad.
But one who knows has stated
That folks who realize,
And give most joy by visits
Arrive not by surprise! many kitchen and bathroom walls, use a suds of golddust and water. Do not make this too strong, as it will destroy the brush if you do. After the paper is removed, scrape the rough edges of cracks to make them even and smooth. If there are large cracks or broken places in the plaster, fill with plaster of Paris.

Look over the rugs and carpets for ripped seams and worn edges. Sew carefully on the wrong side with carpet warp, and buttonhole the edges of your wool rugs with a good strong yarn. After the rugs and carpets have been thoroughly beaten the colors may be freshened by washing with a suds of white soap and ammonia water.

If you do any papering use the greatest care in selecting your paper. Do not choose garish colors of which you wil tire in a short time. Mild neutral colors which do not attract attention will give best satisfaction. For bedrooms, nothing is ever better than a narrow stripe, unless it is for a child's room. Then you might choose a paper gay with flowers or birds. Or the walls might be treated with a plain paper and a nursery border of animals or children at play give the decoration.

A plain paper for a living-room with many pictures is better than a paper with a large figure. In fact, the papers with large, splashy figures should never be used in anything but very large rooms. The mistress of a small house must always shun them.

The new color this spring is neither gray nor tan, both of which have been popular for several seasons, but a mixture of both colors which is indescribable in words. A touch of black in your paper is also new. This must not be much, but just a dash to accentuate the other colors.

#### HOUSEKEEPERS' EXCHANGE.

To clean granite saucepans in which the cooked food sticks to the bottom of the pan, fill half full of water, drop in a handful of sal soda and let boil up a few minutes; then wash and you will find it much easier than scraping.

—Mrs. W. B. S.

When you pull the cork from a new bottle of bluing, cut a notch in the side of the cork before putting it in again. You will find it much better than taking out the cork every time, and there is no danger of using too much.—Mrs. J. J. O'C.

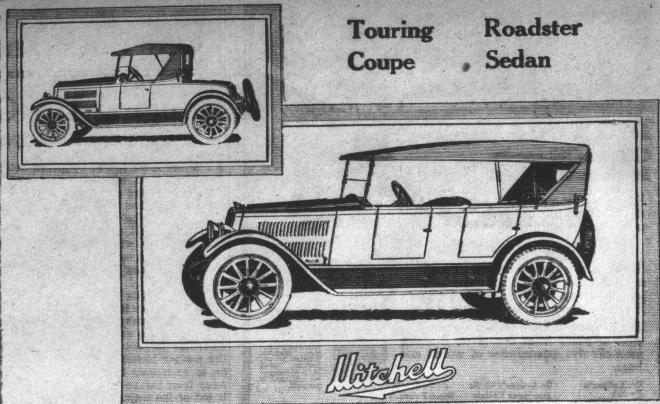
Drive mice and rats from the house by sprinkling red pepper about the places where they enter. Keep the red pepper fresh and strong, as the rodents object to the odor, and when it loses its strength they are liable to return.—Miss Z. I. D.

When the children's shoes become scarred or scuffed rub them with a little vaseline before polishing. They will wear much longer and the scratches will scarcely show after this treatment.—M. A. P.

Push two common pins in opposite directions through the corks of bottles containing poisonous medicine and there will be no danger of picking up the wrong bottle even in the dark. The prick of the pins will remind one of the contents of the bottle.—Mrs. J. J. O'C.

When giving baby medicine use a baby spoon with a curved handle. The spoon may be set down if necessary, without spilling the contents.—A. F.

If this method of covering the ironing board is followed, the cover will not only remain practically wrinkleless, but will also last three times as long as when put on in the usual way. Wash the material and starch it stiff, then while it is still wet fasten it on the board, and when almost dry, iron it carefully. The starched surface will be found easier to iron over.—E. M. F.



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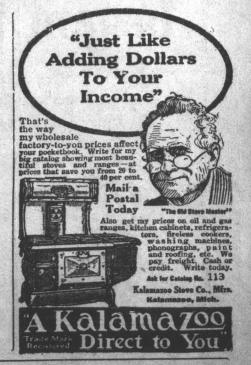
MITCHELL MOTORS COMPANY, Inc. Racine, Wisconsin

# One Trial of Grape-Nuts

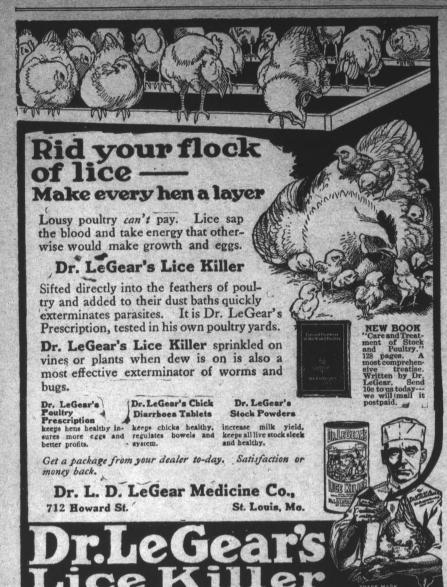
will do more than many words to convince you of the goodness of this wheat and barley food.

But it's worth saying that Grape-Nuts contains all the nutriment of the grains, is ready to eat, requires no sugar and there's no waste.

Grape-Nuts is a Builder



it carefully. The starched surface will be found easier to iron over,—E. M. F. Please Mention The Michigan Farmer When You Write to Adevrtisers



#### Hubers Reliable Chicks Stop Losing Chicks 500,000 FOR 1920



By Parcel Post Prepald.
Delivered to You. Guarantee Live Delivery. Eggs
for Hatching by the Setting or 100.

We have installed the
most modern features of
the Hatching Industry
which will insure chicks as
strong as Hen Hatched
Chicks and Full of Pep.
This is our lith season.

This is our lith season. With the great increased demand for our chicks and the fine reports and praise om Stock of Good Quality, Bred for Heavy Eground that they are Properly Hatched, our loss by buying our Re liable Chicks.

natch all our chicks from pure bred, free range tock. S. S. White and Brown Leghorns, S. S. Sas, Barred Rocks, S. C. and R. C. Reds, S. O. Minorcas, and S. C. Buff Orpingtons. Special action offer on chicks, hoovers and brooder Before buying elsewhere send for free illus-catalog and prices. Place your order at once oid disappointment in the rush of the season.

**Hubers Reliable Hatchery** 



Standard Heavy and Laying!
Breeds.

You will be interested in the Extra Quality White Leghorns inspected and certified as Heavy Producers by the Poultry Live and healthy chicks and satisfactory hatch from Eggs guaranteed.

1. C. Reds. One pen only Cockerel and five Pallets; arge egg conformation.

arge egg conformation.
end for new Catalog with illustrations; it well help
on raise your Chicks. Also it explains the Homeead Farms plan of cooperation.

STATE FARMS ASSOCIATION,
lesk 1, Kalamazoo, Michigan.

Baby chicks; Standard Bred S. C. White and Brown Also English White Leghorns. Bred to lay, large white eggs. Safe arrival guaranteed, shipped up to charden by sarrel post. Free catalogue with list. your door by parcel post. Free catalogue with list. WOLVERINE HATCHERY, R. 2, Zeeland, Mich

BUFF LEGHORNS 25 choice cockerels \$3.00 each. Eggs \$2.50 per 15, \$12.00 per 100. Baby Chicks 20 cents each. Catalogue free-Lake Side Stock & Fruit Farm. Pinckney, Mich.

BARRED ROCKS. Eggs from vigorous garly maturing stock from heavy laying strain. \$2 per 15. \$5 per 45. Prepaid by parcel post. R. G. Kirby, Route 1, East Lansing. Mich.





Put Avicol in the drinking water.

Most people lose half of every hatch, and seem to expect it. Chick cholera of white diarrhoea is the trouble. The U. S. Government states that over half the chicks hatched die from this cause.

An Avicol tablet in the drinking water, will positively save your little chicks from all such diseases. Inside of 48 hours the sick ones will be as lively as crickets. Avicol keeps them healthy and makes them grow and develop.

Mrs. Vannie Thackery, R. F. D. 3, St. Paris, O., writes: "I had 90 chicks and they all died but 32. Then I commenced on Avicol and haven't lost any since. They have grown wonderfully."

It costs nothing to try Avicol. If you don't find that it prevents and promptly cures white diarrhoea and all other bowel diseases of poultry, tell us and your money will be refunded by return mail. Avicol is sold by most druggists and poultry remedy dealers, or you can send 25c or 50c today for a package by mail postpaid. Burrell-Dugger Co., 495 Columbia Bldg., Indianapolis, Ind.

# stops chicks dying





14 LEADING VARIETIES
Safe delivery guaranteed by P. P. prepaid.
Write us for illustrated booklet on Ovie's Chix OVIE'S HATCHERY CO.

State Street. MARION, IND.

BABY Chick S. C. W. Leghorns, White, Buff Barred B Rocks, S.C. R. I. Red, Anconas, White Wyandotts, Buff and Brown Leghorns, 25 for \$6.25, 50 for \$11.100 for \$20. Fenton Chicken Hatchery, Fenton, Mich. Box 244.

## Our Boys' and Girls' Page

## Bringing Up Orphan Lambs

When the "Little Fellers" Need a Friend-By Uncle Ed.

that he should be turned out into the that she will own the lamb. cold, cold world that way. By the But if she does not, we have to do way lambs cry when they find them the next best thing, and that seems to serious thing.

it out of the way of harm to save its last all night. homeless and motherless lambs.

count of having been chilled and not the same time, we can begin to feed

I T is not much fun to be kicked out there are two of them. By feeding the of bed, is it, especially on a cold lamb a few days and giving the mother morning? Makes a fellow shiver and sheep good food, it is sometimes poswonder what has happened, anyhow, sible to make her give more milk, so

selves without a mother we surely can us is to get a bottle that will hold a not help thinking that it is a pretty pint or so, and a nipple, such as is used for babies that must be fed by Sometimes this happens when the hand. The lamb soon learns to take old sheep dies or is not able to provide the nipple in its mouth, and how it will milk for her lamb; but on our farm it work away at it, just as eagerly, in has taken place more frequently than fact, as if it were sucking its own otherwise for the simple reason that mother's teats. If fed this way, it must the mother kicked her little one out, be done often, if the lamb is to grow or, as sometimes is the case, bunts it well. It ought to be fed six or eight away from her, so that we have to get times a day, and once at bed time to

life. Then the question is, "What can After the lamb gets to be a few we do to comfort the little chap?" We weeks old, it will begin to lick a bit of do not like to have it die, as it will do grain, if you place some in a little box. if not cared for right along. Let me Corn meal tastes good and is good for tell you how our folks deal with these them. You may have to put a few grains up to the lamb's mouth a time A good many times we have found or two, until it gets the taste of it. the lamb pretty nearly gone, on ac Then everything will go well. About



Making Friends and Profits.

properly cared for by the old sheep, some nice bright hay. If the hay was we place them in a box with plenty of and brawn. SOVIES BABY CHICKS ally thinks a bit of black pepper is good they do not belong. If they do go to milk down the lamb's throat. We think down to the barnyard. if it can swallow, there is still hope of Most always where the boys and saving it. Pretty soon we hear the girls have had the bringing up of or first feeble bleat, and how that does phan lambs, father gives them the cheer our hearts!

to stand and eat "spoon victuals," we much worth while to befriend these try to have the old sheep own it. motherless lambs of the flock. Sometimes she may and oftener she does not. I do not know why it is that a sheep should reject her lamb, but I believe it is because she has not milk enough for her offspring, especially if els to 291 bushels per acre.

More than once we have taken these cut early it has the juice in it and poor little fellows when their limbs when the lamb chews this it tastes were beginning to get stiff and it seem- good and makes the lamb grow faster. ed as it they were just about as good Clover hay is very rich in the things as dead. Taking them up to the house, that make flesh and bone and muscle

straw and a good warm piece of cloth The time may come when the lamb to cover them over with. Down by the can go out to pasture. If so, it is the kitchen stove we put them where the best way, for some folks do not like warmth can reach them. If not too far lambs around the house. They get to gone we fix up some cow's milk good be pretty familiar and make quite a and warm, and the house mother usu- bit of trouble getting into places where to warm the stomach up. With a spoon pasture with the other lambs and the she presses the jaws of the lamb apart sheep, it is best to give them their and drops a little of this good, warm ration of milk every time they come

lamb they have sayed. When the When the lamb gets strong enough bring the prices they do now, it is very

WHAT TO PLANT IN YOUR GARDEN.

WHAT crops to plant in the home garden will depend upon the size of the garden, the size of the family, and the size of the family's appetite. Where the garden space is extremely limited only those crops that will produce a considerable quantity of food on a small area should be included.

As a rule, home gardeners, especially the beginners, devote too much space to lettuce and radishes and too little to beets, carorts, beans, onions, and tomatoes, according to United States Department of Agriculture specialists. Where the family is small it is easy to overplant most of the garden crops. The surplus of certain vegetables can be saved by canning and drying, others like lettuce and radishes are a loss unless some kind neighbor will use them.

Children eat almost as many fresh regetables as grown-ups and should be counted as "full hands" in estimating the amount of space to devote to any vegetable. The size of the family appetite is liable to expand considerably when the vegetables are brought fresh from the garden, and it is always safe to have a plenty of the more staple vegetables.

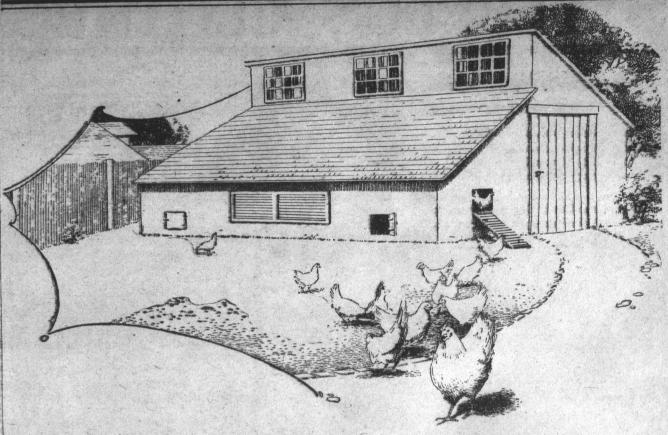
#### WHAT MILK COMMISSION HAS DONE.

(Continued from first page). sions being contained in the following

On April 3, this commission address ed a communication to the chairman of the Federal Fair Price Committee for the eastern district of Michigan, tendering the records of this commission and the data on which its acts were based, calling attention to the fact that the contracts made and now in force between milk producers in the Detroit area and the milk distributors in the city of Detroit are based on the premise that this commission will continue to act in fixing a price under these contracts during the calendar year for which these contracts were made, expressing a willingness to be relieved of these obligations if the Fair Price Committee desired to assume the functions heretofore discharged by this commission and requesting to be advised of the committee's desires in this regard.

In view of the fact that no reply to this communication has been received by this commission, we deem it our duty to continue to discharge the obligations which we accepted as members of this commisison. We therefore render the following judgment as to the prices which should prevail for market milk in this area. For all milk delivered in April, and used as market milk the price to the producer should continue at \$4.05 per cwt., f. o. b. Detroit as previously fixed, and the delivered price on market milk should continue at sixteen cents per quart and ten cents per pint, milk to groceries fifteen cents per quart and nine cents per pint, bulk milk fifty-two cents per gallon.

For the months of May and June the price to producers for all milk delivered should be \$3.40 per cwt. f. o. b. railway station, Detroit, with no surplus deducted, and the retail price for delivered milk should be fifteen cents per quart and nine cents per pint; milk delivered to groceries fourteen cents per quart and eight cents per pint; bulk milk fifty-two cents per gallon. These prices are for 3.5 per cent milk with the usual differential of four cents per point above or below this standard, except that for all milk testing above four per cent butter-fat the price differential should be seven cents per



## A Happy Hen is a Profitable One



And a hen can't be happy unless she has a comfortable home. One of the first essentials in a modern poultry house is dryness. This is only possible where a good, tight Roof is used,

MULE-HIDE Roofing meets all the requirements of a good Roof. Its durability and weather-resisting qualities have won for MULE-HIDE this enviable service record:

#### "Not a Kick in a Million Feet"

MULE-HIDE Shingles and Slate-Kote Roll Roofings have the same qualities as MULE-HIDE Smooth Finish Roofing, with the added feature of beauty. Their unfading surfaces of red or grey-green make MULE-HIDE Shingles and Slate-Kote Roofings the ideal covering for homes and more expensive types of farm buildings. Ask your lumber dealer; if he doesn't handle MULE-HIDE a letter will bring him samples.

## THE LEHON COMPANY Manufacturers

44th to 45th Street on Oakley Avenue · Chicago

## White Leghorns Black Leghorns Barred Rocks FRENCHTOWN, N.

Baby Chicks S. C. W. and Brown Leghorns, and S. C. good laying strain. We gonzantae aste delivery. Grder now. Seventh season. Send for notes list. Grder 12,800 chicks and Limits Batches. train. We guarantee safe delivery. Order th season. Sead for price list. City tery and Poultry Yard, K.S. Holland, Mich.

Barred Plymouth Rock eggs for hatching from fullished prizewinning strain \$2.40 per 13 post paid.

J. A. BARNUM, Union City, Mich.

Baby Chicks S.C. White Leghorus, bred to lay. After Apr. 1 will sell chix and eggs from my

Eggs and baby chicks. A few pens. Dr. WILLIAM SMITH. Petersburg, Mich

Darroff Rock Eggs from Chicago and Indianapolis winners, Great layers, \$2 per 15, \$10 per 100 and up-buff Dack Eggs. Sth year. Circular face. G. EARL HOOVER. R. 3. MATTHEWS. IND.

BARRED BOCKS 15 eggs, \$1.75; by prepaid mail. 100 bens laid 10.421 eggs from January 1 to November 1, 1939. Lewis B. Avery, Clinton, Mich.

EGGS from trapnested S. O White Leghorus, Barron strain, also White Wyandottes that Jus, at \$10.00 per aundred or \$2 00 nor setting of 15 eggs. MACALWHITE POULTRY YARDS, Caro. Nichigan

CHICKS AND EGGS Rose and Single Comb R. I. Rode. Rarred Physicsula. Superior Older. Profile Layers. Prepaid by purely such and safe delivery general resi. Thustrated citalog free.
INTERIARES FARM. Box 39. Lawrence, Mich.

12.100 chicks a week after Mar. 20. Grand laying strains utility 5, C. White Lechons and Mottled Anconss. Strong, sturdy chicks shipped everywhere parcel post guaranteed safe arrival in lots 25:50: 100 or more. 12th. season, order now. Fine free causlogue.

W. VAN APPLEDOKN, R. 7, Hedland, Mich.

Barred Rock Baby Chicks, order now for May and June. Apply forterns Jerome, Mich.

exhibition pens, write for prices.

Hillsdale, Nich.

Buff Leghorn and White Leghorn Cockers of the produced the winners in the state demonstration farm work. Winners at Detroit, Toledo and Oil City, Pa. Shows, 5055 per 50, 320 per 190, 32

Chic's that Live \$15 per 100 S.C. W. Leghorns Send for estalog. SNOWFLAKE POULTRY FARM. R. 1. Grand Rapids. Mich.

Chicks, Leghorns, Minorcas, Spanish, Houdans, Cam-pines, Beds, Backs, Orpingtons, Brahmas, Wandottee. Tyrone Poultry Farm. Fenton, Mich

Barred Pecks eng contest winners, eggs from strain
per setting amend by P. P. Circular free.
FRED ASTLING. Constantine, Mich.

Baby Chicks The fully lively kind, the kind in the most modern incubators built, all eggs are from pure thood farm etcok. Catalogue and price list molifed upon a country of the country o

Coclerels and Physical Budge; Annual and Rouen drakes \$3.00 each. Hatching eags. Catalog 2c. Sheridan Poultry Yards, R. 4, Sheridan, Mich.

PAY

Day Old chicks and eggs for hatching. Breeder and importer of Barron Strain White Loghorns, White and Burred Rocks, S. C. Rhode Island Reds. Heaviest laying strains obtainable. Order early.

Brummer's Positive Farm, Holland, Mich., R.R. No. 8

B-A-B-Y C-H-I-C-K-S

Crescent White Leghorns; also, Anconas, Brown and Buff Leghorns, Black Minorcas, Reds, Rocks (Barred and White), and Wyandottes (Silver-laced and White), WE HATCH the eggs of Hoganized flocks on range of separate farms. Cresent Egg Company, Allegan, Mich.

Baby Chicks. Eleven leading varieties, bred from show-stock, to produce eggs, at util-tity prices. Send for illustrated catalog and price life Olds Powitry Yard and Hatcheries, Dept. B, Marion, O.

CHICKS We have shipped thousands each season since 1904. Are booking orders, now for Spring delivery, booklet and testimentals.

FREEPORT HATCHERY, Box 12, Freeport, Mich.

Towler's Buff Rocks. We are now beeking or cockerels left. R. B. FOWLER. Hartford, Mich.

DANCER If chix and exist are Chix 15c Up not shipped right.

100,000 Chix this season. Best Blooded stock ever produced at lew prices quoted. Selected Utility. Exhibition trapnested stock. 16 varieties. Hatching orga. Hess, Ducks, Book year orders early. Avoid disappointment. Stamps appreciated, Beskman Hatchery, 26 E. Lyon St.. Grand Rapids, M. ch

For Sale B. P. Rocks eggs for hatching. \$2.00 MRS. E. BELLEN, Whittemers, Mich.

Hatching eggs from a rigorous heavy laying stock S.C. W. Legherns, Barred Rocks, W. Wazandotte, Buff Orpingtons, E. 31.50; 50, \$4.50; 100, \$8.06. Shipp, prepaid. Miller Poultry Farm, Nappanes, Ind.

JOHN'S Big Beautiful Barred Rocks are hen hatch el ed grow quick good layers 30 eggs \$3.50; 50,35. Cock ergis \$4 to 6. Photes. John Northon, Clare, Mich

pound males. On account of their larger size they stand cold weather better and lay all waiter Fractation gives winter seg records, describe feeding methods, etc. A. WAUGHER, Gobbooks. Mach.

Additional Poultry 3.1

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The quality you should have at moderate price For Styleplus you pay a moderate price, which is certainly desirable these days. You get a guaranteed all-wool quality that will stand up to the long wear that means economy on the time-cost basis. And, you get

The protection in Styleplus is that pride and pocket are both satisfied and you get the quality a good suit must have. We further protect you by making the prices

known (printed on the sleeve ticket). Visit a Styleplus dealer in your locality. He will show you the clothes and you will see the big values before you pay

Sold by one leading clothing-merchant in most cities and towns. Write us (Dept. H) for name of local dealer.

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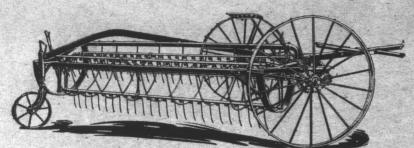
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"The sleeve ticket tells the price"

AMERICA'S KNOWN-PRICED

## TOP PRICE FOR YOUR HAY

can be had only if it has been cured so it retains its natural color and full feeding value. It must be cured by the air—not by the sun. A side delivery rake should be used, because it makes a light, fluffy windrow through which air circulates freely.



## B. F. Avery & Sons' "Champion" Side Delivery Rake

has this big advantage—it delivers hay to the left hand. When you rake with it in the same direction the mower travels, the hay is deposited on the raked stubblenot on top of the unraked swath. When you rake in the opposite direction, the Champion catches the stems broadside and rakes them clean, whereas a righthand rake strikes the butts of the stalks and scrapes through them. This feature alone makes the Champion your best

Ask the B. F. Avery dealer to show you this rake.

FOUNDED 1825

LOUISVILLE, KY.

**INCORPORATED 1877** 

Please Mention The Michigan Farmer When Writing to Advertisers improvement material under the trade name of "Soil Tonic," manufactured at

MARL FOR SOIL IMPROVEMENT.

(Continued from page 663). white marl very similar to soft, natural chalk, and consisting of practically one hundred per cent carbonate of lime, (on the dry basis), was discovered in northwestern Wisconsin about five miles from a railroad, a deposit covering several acres. Could this be utilized?

It was not a matter of guesswork that marl would prove beneficial on acid soils. On a few farms raw marl was tested out with favorable results. Furthermore, certain agricultural records show that both marl and natural chalk are valuable materials to consider in increasing soil fertility-or, in other words, to increase productivity. It was a question largely of obtaining it and getting it applied without too much trouble and expense.

Marl vs. Limestone.

When we considered the abundance of limestone we have at our command, and the ease at which it can be prepared for use on the land, we are forced to consider whether or not marl could compete at all with pulverized limestone. At this time the College of Agriculture, through the Soil Extension Service, in cooperation with a large manufacturing company, had worked out a plan whereby farmers in limestone sections could utilize home product by pulverizing limestone on their own farms. This, to my knowledge, was the first venture of its kind in this country. However, only a comparatively few farmers possessed outcrops of suitable limestone. Many other farmers, on the other hand, were located near good bed marl, and it seemed that marl would be the cheaper material to consider. Accordingly, some of the best experts of this company were set to work on this proposition, to devise some method and apparatus or machinery suitable to take marl from its bed or deposit and to put it into condition for a commercial soil-improvement material. The results of this study and investigation clearly showed that it was out of the question to even attempt the preparation of marl as a marketable agricultural lime, and stay within bounds of reasonable prices. In this investigation only the highest grade of marl was considered. The greatest obstacle in the way was the high cost of drying. To reduce the moisture content of even partially airdried material to dryness would consume large amounts of fuel (and now all fuel is valued much higher). This meant the evaporation of about forty per cent of moisture, or the equivalent of an average of about eight hundred pounds of water for each ton of partially air-dried marl: or in other words. it meant the evaporation of more than thirteen hundred pounds of water to obtain a ton of thoroughly dry marl. It is surprising how much mositure is contained in what may appear as airdried marl, to say nothing of the amount of water contained in wet marl. It is not to be inferred that the wa-

ter in marl is poisonous, thus making it imperative to get rid of it. Nevertheless, this water is injurious, not to the soil, but in lowering the commercial value of the product. Furthermore, no farmer is keen in paying freight on much water.

We also considered the drying of marl to a five or ten per cent moisture content, for at this moisture content high grade marl may be considered excellent material. This reduced the cost considerably, but not sufficient to make it possible to place marl on the market to compete with limestone which can be prepared so cheaply, simply by crushing and pulverizing.

The Marl Plant at Marlbourgh.

Two or three years prior to the marldrying investigations referred to above, there appeared on the market a soilimprovement material under the trade "Marlbourgh," near Dousman, Wisconsin. This was nothing more than kiln-dried mart of high quality, put up in one-hundred-pound sacks, and was sold for, as I remember, three dollars a ton, F. O. B. Dousman.

There was no question as to the value of this material for soil improvement. It was thoroughly dried, very finely pulverized and averaged about ninety-eight per cent carbonate of lime. In color it was dark gray. I tried this product in some of the college soil experimental work, with most excellent results. Because of its flour-like fineness and its solubility, it was a quick-acting material. Now "Soil Tonic" is a thing of the past.

Originally the plant at Dousman was erected for the manufacture of hydrated lime out of marl: but market and other conditions prevented the comple, tion of the plans. This accounted for the appearance of "Soil Tonic." I visited the place, and was told by the manager that the marl bed there is forty feet and more in depth, underneath a few feet of peat. The marl was scooped up with steam shovels and conveyed to a huge, revolving and heated cylinder through which it passed in its drying process. From thence the dried marl was conveyed to a pulverizing machine, then to storage bins or it was sacked for the market. It was an expensive process, and hence the manufacture of "Soil Tonic" did not long continue.

#### Local Use of Mari.

The attempt to make mar! a commercial, soil-improvement product was abandoned; but its local use as a soil tonic is still being encouraged, depending upon conditions. If, on examination, a deposit should prove to be a good grade of marl it can be profitably used by local farmers. The marl should be allowed to air-dry before it is applied to the land.

It is a good plan to scoop the marking piles during the fall, and allow it to undergo weather action during winter and early spring. When the material becomes sufficiently air-dried to give it handling qualities it can be spread upon the land very conveniently by using manure spreaders.

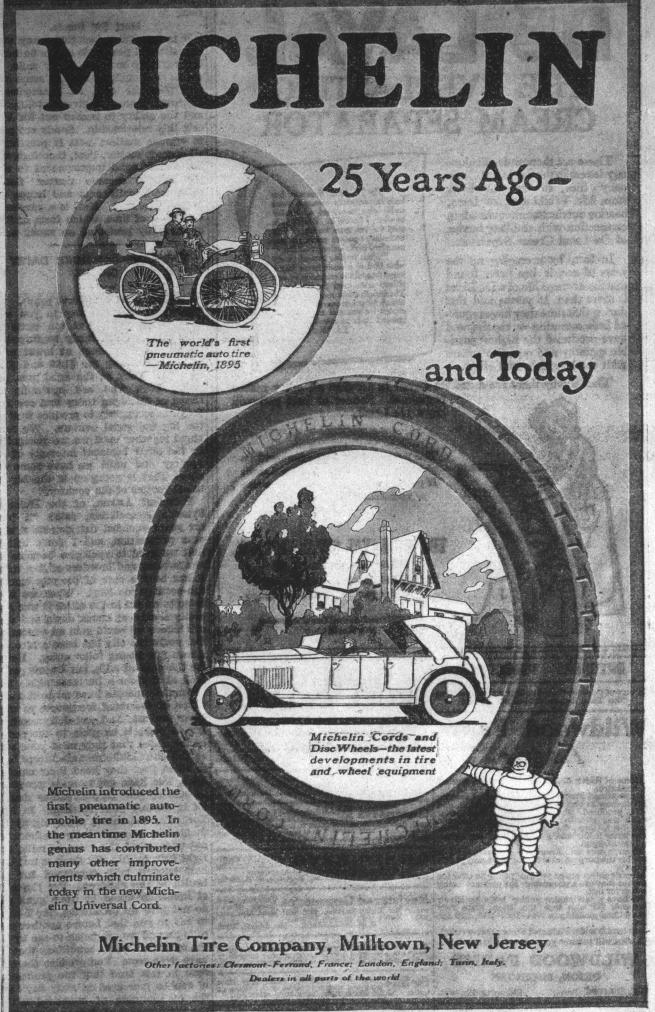
Sometimes marl in its raw state may contain certain poisonous substances which substances would lose their poisonous properties when the marl undergoes weathering before it is applied.

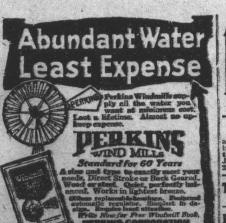
Good grade of marl dug up and aumped into ditch banks by drainage ditchers offer very convenient sources of agricultural lime in certain localities. Sometimes farmers can secure this material for the hauling. In other cases a charge of about twenty-five cents a load is made by the owner.

#### Rate of Application.

Because of the varying composition of marl and of the different degrees of soil acidity, no definite rule can be laid down as to the amount to be applied to the acre. If, for example, it requires two tons of finely pulverized limestone to correct the acidity in a soil of about medium acidity, to do the same work it would require about four tons of finely divided marl containing fifty per cent moisture, and ninetyeight per cent carbonate of lime (dry basis) or eight tons of finely divided I containing fifty per cent moisture and fifty per cent carbonate of lime (dry basis), or about ten tons or more if the mark contains fifty per cent of moisture, fifty per cent carbonates (dry basis), and is more or less lumpy.

It should be remembered in this connection that the more intimately lime particles come in contact with soil particles by thorough mixing with the soil, the more effectively any form of agricultural lime will act. Any method of application, therefore, that can bring about a good mixing of mark with the soil is recommended. The neutralizing value of any mark, based on the con-





## DICKEY GLAZED TILE SILOS

"The Fruit Jar of the Field"
Marly orders insure you having your silo
when you need it. Send for catalog No. 9.

W. S. BECKEY CLAY MFG. CO., MACOMB, ILL. Chattanooga, Tenn.

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at the WORL Sufficient with no capital invested. Every branch of the business tampit. Write today for free carls to JONES. NATL. SCHOOL. OF AUCTIONEEMN 22 N. Sacramento Blvd., Chicago, IR. Chry F. Jones, par

Trained American Fox Hounds Rabbit and Stank dogs all ages. Send stamp.
W. B. LECKY. Hotmesville, Chio

BUY FENCE POSTS direct from farered your station. M. M. care of Michigan Farmer



## "BVT"Silo

With fast forever. You will naver have to so bailst it? Neistaer with your grandshildren.
Built from the famous BRAZEL VITHIFEL FIRE CLAY. The "BV-V" has been on the market nine years without a tailure.
Send for Catalog I)
Brazil Hollens Brick and Tills Company

# DE LAV

## THE EVERLASTING CREAM SEPARATOR

There are thousands of voluntary letters in the De Laval Company's files, similar to this letter from Mr. Watkinson, of Iowa, bearing out the statements made in connection with the long service of De Laval Cream Separators.

In fact, by averaging up the years of use, it has been found that the average life of a De Laval is more than 15 years; and that during that time they have required little attention or repairs, and have produced the highest possible quantity and quality of cream with the least time and effort.

"My De Laval Separator has been in use about seventeen years and is doing just as good work today as when I bought it. I think it is good for ten years longer. With

as when I bought it. I think it is good for ten years longer. With butter-lat at present prices no one can afford to use a cheap machine.

"When looking around to see what kind of a separator to buy I found that all the creameries in our vicinity were using the De Laval. The thought struck me, what is good enough for the creameryman is good enough for me, and my experience proves I made no mistake."

Ed. Watkinson

That is why there are more De Lavals in use than all other makes combined. Sooner or later you will



buy a De Laval.

The nearest De Laval agent will be glad to demonstrate a De Laval. If you do not know his name, write to nearest De Laval office

#### THE DE LAVAL SEPARATOR CO.

165 Broadway, New York

29 E. Madison St. 61 Beale St. San Francisco Chicago '

50,000 Branches and Local Agencies

the World Over

#### BREEDERS' DIRECTORY

Change of Copy or Cancellations must reach us Ten Days before date of publication

## Wildwood Farms Angus

Home of Edgar of Dalmeny one of the world's greatest sires,
He produced Erodemas, the grand champion bull at show in Perth, Scotland in Jan. 1919, and He produced Blue Bell a cross-bred heifer which was awarded the championship at the Smithfield, (Eng.) fat stock show in Dec. 1919. (The latter is England's equivilent of our Chicacon International)

(The latter is Edgards).

Edgar is now an American Citizen, and is Edgar is now an here for the purpose of bettering the breed in this here for the purpose of bettering the breed in this

here for the purpose of betterms.

Country.

Edgar's calves are as yet too young to offer for sale but they are a promising lot and are being spoken for fast.

We have a few choice young bulls by **Black Monarch III** who won the Mich. State Fair Grand Championship in 1914-1915-1916, still for sale.

Our herd is under State and Federal supervision

A visit will interest you, write for particulars.

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ORION, MICHIGAN

W. E. SCRIPPS, Prop.

Sidney Smith, Supt.

### WOODCOTE ANGUS

Established in 1900 Trojan-Ericas and Blackbirds. Write for 1920 Bull sale list. WOODCOTE STOCK FARM Ionia, Mich.

Registered Aberdeen-Angus bulls. One show bull a great prospect. Can fill your order, Satisfaction guaranteed. Plenty of size best of breeding. Priced reasonable. F. J. Wilber, Clio, Mich.

For Sale My herd bull and eight registered Aberdeen Angus Females. Six due to freshen this spring also two yearling bulls. Information cheerfully given. W. Bradley. Phone 90-5, Brighton, Mich.

FOR SALE

ey Bull. Serviceable age. A. R. records dam

granddams 766 lbs. and 555 lbs. A son of An-630 lbs. granddams 760 lbs. and to 100 lbs. granddams 760 lbs. and ton's May King.
GILMORE BROTHERS, Camden, Mich.

GUERNSEY BULL CALVES whose sire's dam made 19,460.20 milk, 909.05 fat. Their mother's sire's dam made 15,109.10 milk. 78.80 fat.
T. V. HICKS. Battle Creek, Mich.

#### **GUERNSEY BULL CALVES** FOR SALE

\$50.00 and up. Sired by Noro's Mayking Mayrose Breeding. This is accredited herd against tuberculosis from State and Federal government.

Avondale Farms, Wayne, Mich.

Guernsey Bull Calf, Linded of Walter Phipps Farm Born May 2-1919, \$100.00 f.o.b, Novi or Birming ham, Walter Phipps Farm, 80 Alfred St. Detroit, Mich

Guernseys Federal inspected herd. Bull 2 ves quel, dam's A. R. record 49.34 b. f. class G. Bull call's 8 mo's. old. 6 bull calves 2 to 5 mos. old. Satisfaction guaranteed G. W. & H. G Ray Albion, Mich.

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

Registered Guernseys Just the nicest ready for Light Service, \$100 will start him your way, Don't wait on this fellow.

J. M. WILLIAMS, No. Adams, Mich

Reg. Guernsey Bulls for sale cheap from 1 to 12 months old and from good producing and tuberculin tested cows. C. E. Lambert & Sons, Linwood, Mich.

For Sale Registered Guernsey bulls. May Rose write. John Ebels R, 2 Holland, Michigan.

For Sale cows and heifers fresh and springers one or car load lots, Apply
THE JENNINGS FARMS, Bailey, Mich.

FOR SALE three Registered Holstein-Friesian fine cows, best of breeding stred by a Pontiac Bull. Will sell one or the three.

HENRY S. ROHLFS, Akron, Mich.

## Winnwood Herd

-SENIOR HERD SIRE-Flint Maplecrest Boy (166974)

4 years old and weighs 3000 lbs. We have a few of his sons ready for service and some little fellows straight as a line and priced right the daughters of Flint Maplecrest Boy are making good. -JUNIOR HERD SIRE-

JUNIOR HERD SIRE—
Sir Ormsby Skylark Burke (249 66)
A'brother to the world champion cow over all breeds (Duchess Syklark Ormsby) 1506 bs, of butter in one year. He is the best bred Ormsby bull in Michigan his dam a daughter of King Segis Pontiac she is a sister to King Segis Pontiac Count and the \$50,000 bull King Segis Pontiac Count and the \$50,000 bull King Segis Pontiac Alcartra, we said get a better bull (we got ours) one of his sons out of a daughter of Flint Maplecrest Boy will make some herd sire.

JOHN H. WINN, (Inc.) ROSCOMMON, MICH.

itents of carbonates and moisture, should also be taken into considera-

Marl for Sands.

It is a singular fact that many marl deposits and peat beds are to be found in proximity to much sandy soils. It seems as though nature had some definite plan for such an arrangement. However, man was given intelligence and the ability to reason out for himself this relationship. Sands are poor in organic matter; peat is practically all organic matter. Peat, therefore, can be used in sand improvement to supply needed organic matter. Sandy soils are usually acid and hence are deficient in lime. Marl is a carrier of carbonate of lime, which form of lime is generally preferred on sandy soils.

#### FARMERS CONSIDER DAIRY CRISIS.

(Continued from first page). "how any man can say to you who are producing milk at ten cents an hour that you can fairly be forced to produce food for men at lower price who are working for \$1.00 and \$1.25 an hour. Look at the aged men and young boys who are operating the farms of Michigan today and see how they are struggling to produce food for the big industrial centers. We must

stand togéther until we are recognized by the other business interests of the country and until we have some say about what is going on in the big political parties of the country." President Aitken, of the Holstein-Friesian Association, said: "I have for years sounded dairying as a business proposition, and I don't believe that we need to apologize because we are farmers and breeders of live stock. It has been a case of the city against the country too long. When we used to go to school in the cities it was gen-

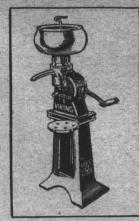
erally a case of knock down and drag out before we could gain an education. For years the city has been a lure and drawn our young folks away. I realize the need of milk, but I want you to look at it from a business side. The automobile people have made it a condition of the mind for people to want their product. And you dairymen have got to make it as plain to the people of the cities that they need your milk as the automobile manufacturers have to them that they need their automobiles. You have got to make provision to take up your surplus rather than to let it destroy your markets. In New York City the babies are dying by the thousands because their mothers do not understand the value of milk, and right here in this city there is not onehalf enough milk consumed for the health of the children. For the sake of humanity stand by your guns and do not give up production, for I want to say to you that before another year rolls around we are going to see by far the most deplorable conditions that we have ever seen. You produce the only food in this land that the production of can be increased in sixty days and the consumption of increased within the same period of time, and now it is a question of reducing the price. If you let your cows go down in yield you will see the greatest milk shortage the country has ever witnessed, and I We have what you want in BULL CALVES, the large, want to say to those men who are assibility of reducing the price of milk that they are assum-

"It is not only due to the children and adults of Detroit that you see that they know these things about milk and the cost of producing it, but it is your business to do so. Then they will consume milk in just the proportion that you get them mentally interested in it. And it is your duty to produce good milk and produce it under sanitary sur-

not a farm in Michigan today that can

pay the going wages, without showing

### VIKING-The Separator Preferred by Women



The Viking separator is the woman's choice.

In designing this machine the manufacturers not only have in mind the attainment of perfect skimming; but ease of operation, simplicity in construction and mechanical excellence.

It is easy to clean and keep sanitary.

Built the correct height for comfortable of eration. There is no leaning over to turn the crank. Examine the illustration

Dept. BD.

closely.

Swedish Separator Company 507 So. Wells St., Chicago

# acts in

#### Big Incentives to Own Pure red Holsteins

Each year \$26,000 is distributed by The Holstein-Friesian Association for milk and butterfat records of the breed at fairs. This has been a wonderful stimulus to Holstein breeders, and has also aided in the nation-wide exploitalso aided in the nation-wide exploration of the superior merits of the pure-bred Holstein-Friesian cattle. Being a large and persistent producer, the hardy and prolific Holstein cow has proved herself the most profitable for farmers or dairymen throughout the

Read the facts in our free booklets.

THE HOLSTEIN-FRIESIAN ASSOCIATION 164 Hudson Street Brattleboro Vermont.

## GENRIDA FARM

BULL CALF, BORN DEC. 26, 1919
Sire: King Flint, who combines the blood lines of 2 families of 3 generations of 30 lbs. cows and 2 generations of 1200 lb. yearly record cows. Dam: Has, a 21.39 lb 3 yr. record. Her dam is a 23.99 lb. daughter of Johan Hengerveld Lad. Walter Hill, Davison, Mich.

## The Traverse Herd

fine growthy type, guaranteed right in every way They are from high producing A. R. O. ancestors Dam's records up to 30 lbs. Write for quotations, stating about age desired.

TRAVERSE CITY STATE HOSPITAL ing a grave responsibility. There is Traverse City, Mich. produce milk at the going price and

REGISTERED Holstein bulls sired by King Zerma Alcartra Pontiac, son of the \$50,000 bull; some from good A. R. O. cows. C. H. Giddings, Gobleville, Mich

\$125 Buys Reg Holstein Buil 1 yr, old. Delivered on K. High class breeding and a good individual. B. B. REAVEY, Akron, Mich

\$125. gets bull calf born June 1.19. Sire's six near seed dams av. 33.34 lbs. butter for 7 days. Dan good producer. Oscar Wallin, Unionsville, Mich

Holsteins of Quality Fifteen High Grade Holstein Cows For Sale E. A. HARDY, Rochester, Mich. roundings. Now let us go about this milk production in the right way. The distributors are only a part of this scheme of getting milk to the customers. They may be making big profits, but I don't know. I do know that I have tried the business of distributing milk once, and that I was glad to get out of it, and that was before the war. If your distributors won't get your milk to the people in a sanitary condition there are others who will. What I want to have you do is to conduct your business in a businesslike way. Then you will succeed."

John C. Ketcham, Master of the Michigan State Grange, gave a brief address. Mr. Ketcham, who has been on an extensive trip through the New England states, said: "Down in New England where I have been the great question the people are asking is what they can do to bring back their agriculture. Shall we stand back and let our agriculture go down the same way as they have? The average wages paid farm labor last year was \$2.16 per day and \$56.29 per month. Men in the cities today are drawing from \$8.00 to \$12 per day Whether you are operating your own farm or hiring men, if you look upon your business as a \$2.16 proposition where are you going to come out? Ninety per cent of the people on our farms today are American born, and if you step into one of the big cities what do you find? Mighty few of the people can understand the English language. I am not saying this to raise class prejudice, but I do want to state a few facts for you to think over. And I want to say to you that as we are standing here today pleading, it is up to you to put over your problems in the best way you can.

The following resolution was then presented by Mr. Ketcham and unanimously adopted:

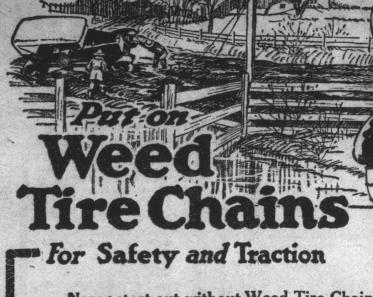
Whereas, Michigan farm conditions are most critical. The heavy removal of people from the farms to the industrial centers owing to the attraction of high wages, has seriously threatened food production. Vacant farm houses, abandoned farms and reduced acreage is the report from all corners of the

Whereas, the residents of our cities are seemingly asleep to the conditions are seemingly asleep to the conditions that prevail in regard to food production. Carelessness, neglect, and even open hostility toward farmers are all too common in the minds of many city consumers. Many of our industrial leaders have lost sight of the fact that Michigan's prestige as a manufacturing center cannot be maintained unless those who produce food are likewise prosperous and progressive: and wise prosperous and progressive; and

Whereas, the Michigan Milk Producers' Association is especially concerned over the impending crisis in this important industry. Top prices in feeds, and almost impossible labor conditions are driving many men out of the dairy business and unless immediate and drastic means are used to counteract, we shall face in the summer months such a shortage of dairy products that actual want, if not famine, may stalk through our city streets and riot and ruin run their mad course; and course; and

Whereas, the Michigan Milk Producers' Association would be recreant to its duty to its members and to the consuming public did it not bend every energy to bring this critical situation of the milk industry to the people of the city and to invite their earnest cooperation in avoiding disastrous con-sequences to all concerned. Assistance must be given the dairymen to encourage increased production, to improve the quality of their product, and to guard against its contamination. City consumers must be enlightened as to the excellence of milk as a nutritive and to its comparative cheapness when its food value is considered;

Therefore, be it resolved that we show our good faith in meeting this critical situation by instructing the Board of Directors of the Michigan Milk Producers' Association to arrange for the collection of one per cent of the proceeds of our milk for the purpose of more effectively meeting the situation above described, through proper advertising, more intensive organization and such other means as may be found necessary and practicable.



Never start out without Weed Tire Chains when the roads are muddy and slippery. Take no chances. Prepare for accidents before they happen-not after.

Any farmer who drives without Weed Tire Chains, when the roads are slippery and muddy, is taking chances with his own life; he is liable at any moment to have a serious mishap and is risking the probability of aggravating delays.

Slipping and Skidding are entirely due to loss of traction. Perfect traction on muddy, slippery roads is impossible without Weed Tire Chains.

For your own safety and comfort don't wait till it rains-stop at your dealer's today, when the going is good and buy a set of Weed Tire Chains.

Can you depend on your car? Is she always under absolute control-brakes working-wheels gripping and holding true? If not what fun is there in driving? If you are a little nervous on wet roads you miss half the fun of your car.

Enjoy that safe feeling—Take the necessary "stitch in time." Put Weed Tire Chains on your tires at the first indication of wet roads or slippery going.

They are made of the best steel electrically welded and tested —are easily attached and do not injure tires because they "creep" sizes to fit all styles and makes of tires.

Alwaysputonyour Weed Tire Chains at the first drop of rain



For Sale by Dealers Everywhere

## AMERICAN CHAIN COMPANY, INC.

BRIDGEPORT CONNECTICUT

#### LARGEST CHAIN MANUFACTURERS IN THE WORLD

The Complete Chain Line—All Types, All Sizes, All Finishes—From Plumbers Safety Chain to Ships' Anchor Chain.

eltra Trace Chains are "formed" and electric-welded on automatic machines, insuring smoothness, uniformity of construction and maximum strength. ry pair is carefully inspected and rigidly tested before leaving our factories.



**OUR HERD SIRE** Model King Segis Glista

By a 30 lb. son of Lakeside King Segis Alban De Kol. His dam Glista Fenelle 32.57 lbs. Her dam Glista Ernestine 35.36 lbs. His three nearest dams average over

Grand River Stock Farms
C. G. Twiss, Mgr. Eaton Rapids. Mich. Eaton Rapids. Mich.

FOR SALE a number of pure bred Hol-very well bred Holstein buil calves.

JOSEPH H. BREWER, Grand Rapids, Mich.

## **BULL CALVES FOR SALE**

From dams with good records.
BULL CALVES SIRED BY 45 lb. BULL.
BULL CALVES SIRED BY 34 lb. BULL.
PRICES VERY REASONABLE. Privelege of return if not satisfied.

A. W. COPLAND, Birmingham, Michigan. Herd under State and Federal Supervision.

## A BULLY GOOD BULL CALF

Reg. Holstein Bull Calf born Feb. 1, 1920. Sires 13 dams ave. 31 lbs. Price 3000 Reg. and Del. would take Liberty bond. J. R. Hicks, B. 3 St. Johns, Mich.

of the best, and at prices within re

#### Bazley Stock Farm YPSILANTI, MICH.

A nicely bred calf. The dam of this calf has just made 12.77 lbs. of butter from 304.6 lbs. of milk as a senior yearling. She is from a 16 05 2 year old that will freshen in April and will be tested. Dam of Calf is both a grand-daughter of King of the Pontiacs and Woodcrest De Kol Lad 26 A. R. O. Daughters. Sire of Calf is a 21 lb. grand son of the \$50,000 bull, Price only \$100.00

JOHN BAZLEY DETROIT, MICHIGAN.

(State and Federal Tested)

## Ypsilanti, Michigar

Offers young sires, yearlings and younger, out of choice advanced registry dams and King Korndyke Artis Vale: Own dam 34.16 lbs. butter in 7 days; average 2 nearest dams 37.61, 6 nearest 33.93. 20 nearest 27.83

LONG DISTANCE HOLSTEIN
BULL CALF
BOYLD DE TO THE STAND
BOYLD DE TO THE STAND
BULL CALF

\$75 Will Buy a registered Holstein bull by a 28 lb. son of King Segis Pontiac. Calf is right in every way. Write for pedigree.

BEN L. SMITH, Rives Junct., Mich.

For Economical production, individuality, breeding get granddaughters of D. D. Aitken's herd sire and Flint Heng. S. 27 lb. butter 561 lb milk in 7 days.

Terms 850 a year.

M. L. McLaulin, Redford, Mich.

REGISTERED HOLSTEIN bulls calves from the derection an accredited herd for sale. All ages. Apply MICHIGAN SCHOOL FOR THE DEAF, Flint, Michigan

## **HARWOOD** HEREFORDS

Jay Harwood & Son, Ionia, Mich. Farm Six Miles South of Ion a

3 Prince Donald, 3 Farmer and one Polled bulls from 7 to 13 months old, for sale,

ALLEN BROS.

PAW PAW,

MICHIGAN

Herefords Special low price on the following for a short time. One four year old cow, due in spring. Two 2 year olds with calves by side. One yearling helfer. Three bull calves, about 2 months old, one polled, two horned, all well marked and good dark color.

GOLE & GARDNER, Hudson, Mich.

Herefords. Just purchased 3 new herds, now have either sex, horned or polled, any age. Priced reasonable. THE MCCARTYS, Bad Axe. Mich.

The Wildwood Farm

Jersey Cattle. Majesty strain, Herd on State accredited list, R. of M. testing constantly done. Bulls for Sale. ALVIN BALDEN, Phone 13-5, Capac, Mick.

## Washtenaw County Consignment Sale

Ypsilanti, Mich. Saturday, May 1st 1920.

90 Head Registered Holstein-Friesian Cattle

The Kind You Are Looking For.

1 32 lb. cow. 1 30 lb. cow. 4 daughters of 30 lb. cows. 2 29 lb. cows. 3 daughters of 29 lb. cows. 1 daughter of 1123 lb. yearly record cow. 1 26 lb. cow. 1 25 lb. cow. 1 24 lb. cow. 2 23 lb. cows. 1 20 lb. 2 yr. old daughter of \$0.96 lb. cow from 30 lb. sire. 2 sisters of 32 lb. 4 yr. old. 12 cows bred to 38 lb. bull. 1 29 lb. bull. Wonderful individuals with real breeding. About one half of these cattle under state and federal test.

D. L. Perry, Auctioneer

R. Austin Backus in the box.

GET A CATALOGUE AND YOU WILL BE AT THE SALE. FREE TRANSPORTATION TO PAVILION.

> Address R. J. BIRD (Secretary), Ypsilanti, Mich.

McPherson Farms Co. and Cluny Stock Farm

## FIRST ANNUAL SALE

at Howell, Mich., June 8, 1920

McPherson Farms Co. consigns

- 1 30 lb. bull
- 1 bull whose 4 nearest dams averge 32.46 lbs.

- 1 daughter of 27 lb. 3½ yr. old
  1 daughter of 26 lb. 3½ year old
  2 daughters of a 25 lb. cow.
  1 daughter of a 24 lb. cow and several other
  "Top Notch" Holsteins.

All bred to 30 lb. Bulls.

Cluny Stock Farm consigns

- A 3 generation group consisting of 1 A 26.8 lb. cow (100.8 lbs. milk in 1 d., 106.9 lbs. butter 30 d.
- 2 Her 20,000 lb. Sr. 3 yr. old Semi-offical record daughter, and
  3 3 yr. old daughter of No. 2, by a 31 lb. bull. Also a 21.49 lb. 3 yr. old 1st calf daughter of Maplecrest Application Pontiac, and several other daughters and 2 sons of same size both from high record of same sire, both from high record

McPherson Farms Co. Howell, Mich. R. Bruce McPherson, Howell, Mich.

## THE FAMOUS I.C.SWIN

We have the undefeated Herd of the World.

We have the undefeated Herd of the World.
Winning premier breeder and exhibitor at every fair shown in 1919-1918-1917, includthe following state fairs---Ohio, Michigan, Indiana, Illinois, Missouri, Kentucky,
Tennessee, Oklahoma, New York, Alabama, Tri-state fair Memphis, and the National O.I.C. twice. Stock of all ages for sale. Registered free in the O.I.C. association.
Order now. We will ship any of our stock on approval allow you to keep
three days before you have to pay for it. You will be your own judge on your

CRANDELL'S PRIZE HOGS,

Cass City, Mich.

## A Brookwater Duroc Jersey Boar

will make you money because Brookwater Durocs are recognized as the standard in Michigan.

Brookwater Durocs have been sold into almost every State in the Union, as well as in Canada, Chili, Brazil and the Argentine Republic.

The demand for Brookwater Durocs is growing every year. Our best customers are our regular customers. If you need a boar you can get one at a reasonable price. Visit the farm or write

BROOKWATER FARM, Ann Arbor, Mich. Herbert W. Mumford, Owner, J. B. Andrews, Manager,

Also a few JERSEY BULL CALVES by a double grandson of Royal Majesty and out o Register of Merit dams.

## O. I. C. SOWS FOR SALE

One of the Best Herds in Michigan
Spring gilts and fall yearlings bred for March, April and May litters. I ship
C. O. D., pay express and register in buyer's name. If you want a BIG
TYPE sow, guaranteed right in every way, write me.
J. CARL JEWETT, R. 5, Mason, Michigan.

BUTTER BRED JERSEY BULLS FOR SALE SPRING STOCK FARM, Allegan County, Michigan.

FOR SALE Jersey Bulls ready for service R. of ancestors. Raleigh-St. Lambert breeding. Jerseys stand for economy. Waterman & Waterman, Packard Rd. Ann Arbor, Mich.

For Sale Jersey bull calves of Majesty breeding from ment "Accredited List." Write for price and pedigree to C. A. TAGGETT, R. 2, Fairgrove, Mich.

LILLIE Farmstead Jerseys—A few heifers bred to freshen soon, heifers bred to freshen next fall, 3 cows, R. of M. bull calves. C.C. Lillie, Coopersville, Mich

Bulls ready for service from our herd bull Marguerites Premier, gdson, of Pogis 99th of Hood Farm, and cows now on test for R. of M. Smith & Parker, Howell, Mich.

For Sale Registered Jersey Bulls from NOTTEN FARM, Grass Lake, Mich.

For Sale Shorthorns of Quality Scotch and Scotch Topped descendents of Archers Hope, Avondae, Max waiton Sutton and White Hall Sulton. Model Type, by the Oscola Co. Shorthorn Breeders Ass. John Schmidt, Sec. Reed City, Mich.

a buil that will put weights on your dairy calves-the difference will soon pay for the built. Now selling good Scotch and Scotch-topped yearlings, reasonably priced. A roan senior yearling, a Missie of Villager breeding, a herd bull prospect, Federal Test.

BIDWELL STOCK FARM, Tecumseh, Michigan

M EADOW Hills Shorthorns, Herd headed by Silver King, full brother of Lavender Sultan Purdue University's great sire. For sale females of all ages, a few young bulls. Geo. D. Doster, Doster, Mich.

Royal Bruce 785521 heads our herd. Three half brothers sold for \$55,009.00 one Cluny Proud Augusta going to head Wm. Duthies of collyne's herd at \$21,000,00. One bull and a number of females for sale.

CARR BROS. & OO.

Norman Carr, Secretary.

Bad Axe, Mich.

Shorthorn Crnickshank Orangeblossom. Herd bull and 2 bull calves 6 and 7 months W. C. OSIUS, Hillsdale, Mich.

# Gombault's

Veterinary Remedy HAS IMITATORS BUT NO COMPETITORS I

SAFE, SPEEDY AND POSITIVE.

Supersedes All Cautery or Firing. Invaluable as a CURE for

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FOUNDER,
WIND PUFFS,
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BONY TUMORS,
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SPAVIN,
OUARTER CRACKS,
SCRATCHES,
POLL EVIL,
PARASITES,
EMOVES

BUNCHES or BLEMISHES, SPLINTS, CAPPED HOCK, STRAINED TENDONS.

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SAFE FOR ANYONE TO USE

CAUSTIC BALSAM IS THE BEST

Your Gombault's Caustic Balsam is the best liniment I know of. I have bought four bottles for my neighbors, and two for myself. I have cured a sweenied horse with the Balsam.—Louis Miller, Sharon, Wis.

GOMBAULT'S JAUSTIC BALSAM IS EXCELLENT.

None genuine without the signment of Sauvence, Williams Co.

The Accepted Standard VETERINANY REMEDY

Always Reliable. Sure in Results.

Having read an advertisement in Wisconsin Agriculturist about your Gombault's Caustic Balsam, I have tried some of it and think it excellent.—J. M. Worazdovsky, Big Flate, Wis.

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

## Richland Stock Farms

Home of the Michigan Champions. Shorthorn Sires in Service:

IMP. Lorne, IMP. Newton Champion, Sterling Supseme. Why not buy a young bull to head your herd that carries the blood that is making Shorthorn History. Only a few real headers left. Write your wants.

C. H. PRESCOTT & SONS. Tawas City. Mich.

FOR SALE Lady Blanche 4th, horn heifer two and one halfyre, old. Stres Avondale Stamp, Cerrect Sultan, Imperial Success. Address HOYT SHISLER, Caledonia. Mich.

Central Mich. Shorthorn Breeders Asso. offer 40 bulls, 38 females, write for new list. OSCAR SKINNER, Sec. Gowen, Mich.

The Kent Co. Shorthorn Assn. have males and females of quality for sale. L. H. LEONARD, Sec., Caledonia, Mich. FOR SALE Registered Shorthorns of good milking strain. Bull Roan three years old, bull calves 2 to 6 months. Chas. Warner Jr., R. 4, Imlay City, Mich.

Milking SHORTHORNS. Clay bred bull calves Herds under Federal Supervision. Davidson & Hall, Beand & Beland, Tecumseh, Mich

Shorthorns Good Scotch bred bulls, cows and heifers priced right,
W. B. McQUILLAN, B. 7, Howell, Mich.

Shorthorns Scotch and Scotch Topped, only a few left at old prices.
W. J. BELL, Rose City, Mich.

Small herd of registered Shorthorns for sale, SHEAR BROS. R. F. D. 5, Flint, Mich.

Shorthorn Bull yearly, Price \$70. Duroc fall gilts
Price \$20.0. Spanish Jack yearling.
Price \$200. C E. J. ALDRICH, Tekonsha. Mich.

Berkshires size with quality is our special-ty. Write your wants to M. G. MOSHER & SONS, Osseo, Mich.

Registered Berkshires, Gilts, and Sows bred for April May and June farrow. A yearling Boar and a few younger.Spring pigs. Chase Stock Farm, Marlette, Mich.

SHORTHORNS Duroc sows and gilts bred to Walts King 92949 to the State Fair in last 2 years than any other Duroc boar. Everyone will be a money maker for the buyer. Cat. and price list.

NEWTON BARNHART, St. Johns, Mich.

> **DUROC-JERSEYS** A few extra good bred sows and gilts for sale. CAREY, U. EDMONDS, Hastings, Mich.

DUROC JERSEYS

Bred Gilts for March and April farrow. Write at once
for description or come and see them. Satisfaction
guaranteed with every order.

RUSH BROS. OAKWOOD FARM, Romeo, Mich.

Michigana Farm offers some exceptiona in tried sows. These are guaranteed to give satisfaction and they will ship on approval to responsibly parties, They breed and sell good Durocs.

O. F. Porter Mgr. Pavilion, Mich.

ROYAL BRED DUROC GILTS

DUROC JERSEYS
Gilts bred for March and April farrow, A Guarantee back of every Sow Sold.
F. J. Drodt, Monroe, Mich. R 1.

DUROC JERSEYS E. D. HEYDENBERK, Wayland, Mich.

Duroc Jersey, Bred sows and gilts April and May farrow. Sired by or bred to my 1900 lb herd boar JOS. SCHUELLER, Weidman, Mich

Duroc bred sows and gilts sired by Orion Cherr King Col. 2nd., bred to All Col. of Sangamo 2nd First class lot, reasonable. W.C. Taylor, Milan, Mich

DUROCS for Sale Bred sows and fall pigs of both sex and a car of grade draft colts.
OHAS BRAY, Okemos, Michigan.

CHESTERS, spring pige in pairs or trice from strictly big type mature stock. A few glits bred for May farrow. F. W. ALEXANDER, Vassar, Mich.



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from my great here to be community where I am not already reparation to the carry developers—ready for market at six months old. Write for my plan—"More Money from Hogs."

6. S. BERSAMIN, R. F. D. 10. Fortland, Michigan

O. I. C. and Chester White Swine trictly Big Type with quality. Spring pigs of March and April farrow. A choice lot of boars. Will only hare a few more gitts at present. Will ship C. O. D. ad record them free. ewman's Stock Farm. Marlette, Mich. R. No. 1.

O.I.C. and Chester White Swine booking orders for spring pigs from hig type iblood lines. Fall pigs with size and quality. I ship C. O.D. and re-gister in buyer's name. John C, Wilk, Alma, Mich.

O. I. C.'s. 2 extra choice last spring gilts. Il last ever had. Farm 4 mile west of Depot. Citizen Phone 124. OTTO B. SCHULZE, Nashville, Mich

O. I. C's Am offering a few September pigs that combine size and quality.
O. J. THOMPSON. Rockford, Mich.

O. I. C'S A few choice late fall and winter WEBER BROS., R. No. 2. Royal Cak, Mich.

O. I. C's. Big type serviceable boars. Gilts G. P. ANDREWS, DANSVILLE, MICHIGAN

O. I. C.'s Choice bred gilts, 2 extra fine service CLOVERLEAF STOOK FARM, R. 1, Menroe, Mich.

#### MICHIGAN CROP REPORT.

THE outlook for winter wheat and rye is somewhat better than the average of the past ten years as shown by recent reports furnished to the Michigan Cooperative Crop Reporting Service. The joint report issued by Coleman C. Vaughan, Secretary of State, and Verne H. Church, Field Agent, U. S. Bureau of Crop Estimates, for April' 1, also shows that these grains have wintered well under the prevailing favorable weather conditions, although the production indicated is not as large as that of last year. The supply of farm labor is far short of farm needs and much less than the normal supply. However, the demand has not increased over last year, and it is only slightly greater than normal, for the reason that wages are higher than most farmers can afford to pay. The majority of farmers will do what than most farmers can afford to pay. The majority of farmers will do what work is possible without hiring, so that many farms will not be worked to their full capacity and many will not be worked at all this year. This condition will undoubtedly cause a reduced crop production in Michigan this year.

The estimated amount of wheat mar-

The estimated amount of wheat marketed at mills and elevators in the state during March is 514,000 bushels, or a total of 10,362,000 bushels since August 1, 1919.

The outlook for the United States is less flattering, as the condition is only 75.6 per cent as compared with 99.8 one year ago, and 84.1, the tenyear average. This low condition combined with the marked decrease in acreage indicates a total winter wheat crop of only 483,617,000 bushels, as compared with 731,836,000 bushels last year.

Rye.—As is usual, rye shows a better condition than wheat in the state, being 92 per cent as compared with 95 per cent on December 1; 96 per cent one year ago, and a ten-year average of 88 per cent. Practically no complaint regarding the outlook for the crop was received from any section.

Rye promises a total crop in the United States of 75.841,000 bushels as against 88,478,000 bushels last year, the condition being 86.8 per cent. The average one year ago was 90.6 per cent and the ten-year average, 89.0 per cent.

Breeding Sows.—The usual inquiry

Breeding Sows.—The usual inquiry relative to the number of breeding sows on farms shows that there are three per cent less than last year and five per cent less than the usual number. There was an increase immediately following the war, but the relatively high price of feeds in comparison with the price of pork has discouraged the increasing of herds and caused the reduction mentioned. The reduction for the United States as a whole is ten per cent.

Labor Supply and Demand.

lowing prices:

Netherland Colanthe Coronis No. 69618, \$220, Glasglow Bros., Jackson,

Heifer calf, born April 19, 1919, \$160, Arthur Perrine, Rives Jct., Mich. Heifer calf, born August 28, 1919,

Heifer calf, born August 28, 1919, \$167.50, Arthur Perrine.
Heifer calf, born September 1, 1919, \$170, R. A. Haggitt, Albion, Mich.
Heifer calf, born September 28, 1919, \$151, R. A. Haggitt.
Bull calf, born September 8, 1919, \$152.50, Glasglow Bros., Jackson, Mich.
Bull calf, born January 6, 1920, \$101, O. J. Pardee & Son, Concord, Mich.

## Veterinary.

CONDUCTED BY DR. W. C. FAIR.

that many farms will not be worked to their full capacity and many will not be worked at all this year. This condition will undoubtedly cause a reduced crop production in Michigan this year.

Winter Wheat.—The condition of winter wheat is 36 per cent, or six per cent less than on December 1, and nine per cent below the condition of last year's crop on the corresponding date. It is still three per cent better than the ten-year average for April 1. There was a relatively heavy snow covering and hilly lands high winds caused the snow to drift badly, leaving the tops of hills bare. There was considerable damage done last fall by the Hessian fly in many southern counties. On the whole, the crop is in a satisfactory condition except in occasional localities. March was unusually favorable for the crop.

The estimated amount of wheat mar-

Acute Indigestion.—After about one hour of sickness my fourteen-year-old mare died, and I would like to know the cause of death. I fed her ground corn, chop feed and bran mash twice a week. When she was sick she bloated, was in great pain, would lie down, roll and tumble, get up, walk in a circle. N. S., Algonac, Mich.—Following the attack of acute indigestion and rapid formation of gas, and it being unable to escape, or absorb the stomach, diaphragm, or bowel ruptured, resulting in death. Unless well equipped with drugs and instruments and possessing knowledge how to treat a case of this kind, it is likely to prove fatal. The wild hay you fed her was perhaps of poor quality.

Feeding Question—Heifer Fails to

Feeding Question—Heifer Fails to Come in Heat.—Have been reading veterinary column with much interest. Would like to know whether it is all Would like to know whether it is all right to feed ground rye and corn to mare with foal? We have a heifer that came fresh in November. The calf was large, we had to help her, was careful, she cleaned fine, showed no bad effect, but has not yet come in heat. What shall I do? A. W. B., East Jordan, Mich.—Feeding brood mare rye and corn will do her no harm, unless you give her too much, neglect to keep bowels open, and exercise. Add some wheat bran, alfalfa or roots. Give heifer a teaspoonful of ground capsicum at a dose in feed twice daily. Feed her stimulating food, and keep her stimulating food, and keep her warm.

warm.

Partial Loss of Power.—Can you tell me what to do for pigs that walk on their knees? They are now four months old, have been feeding corn, cooked beans and potatoes. I might add that these pigs are fat. B. M. S., Holly, Mich.—You have fed them too much corn. Feed more oats, oil meal, tankage alfalfa and roots. As soon as

Labor Supply and Demand.

The supply of labor on Michigan farms is only 80 per cent of that of one year ago and 60 per cent of normal. Notwithstanding this marked shortage, the demand is only about equal to that of last year. The wages are too high to warrant the hiring of the amount of labor needed to fully operate the farms.

The supply for the United States as a whole is 87.5 per cent of last year and 72.4 per cent of normal, while the demand, like the situation in Michigan, is about the same as last year and only slightly more than normal.

add that these pigs are all the demore oats, oil meal, tankage, alfalfa and roots. As soon as they are able to walk, give them walking exercise.

Worms.—I have a one-year-old buck that has a good appetite, but there must be something wrong with him as he seemingly refuses to lay on flesh. Have examined him for ticks, but he has only a few. R. L. R., Henderson, Mich.—Keep all food away from him for twenty-four hours, but let him have all the water he will drink, give half an ounce of gasoline, one ounce raw linseed oil (not boiled oil), and five slightly more than normal.

SUCCESSFUL HOLSTEIN SALE.

SUCCESFUL HOLSTEIN SALE.

At the recent sale held by Vernon

E. Clough, at Parma, Michigan, Wednesday, April 7, the following purebred Holstein animals were sold at the following purebred Holstein animals were sold at the following purebred ment either burned or limed.

Heifers Fail to Breed .- None of my Netherland Helen Sherlock No. 401392, \$218, J. W. May, Jackson, Mich.
Violet Lilith De Kol No. 401394,
\$335, J. W. May, Jackson, Mich.
Daisy Barteenah No. 469617, \$297.
R. A. Hasgit, Albion. Mich.
Lady Barteenah Dinola No. 341100,
two or three times a day and feed them
\$300, Arthur Perrine, Rives Jct., Mich.

Heifers Fail to Breed.—None of my
three heifers have been in heat for the
past two years. I feed few oats, silage, hay and straw. L. E. B., Holland,
Mich.—Give each cow thirty grains of
ground nux vomica and sixty grains
of ground capsicum at a dose in feed
two or three times a day and feed them
\$300, Arthur Perrine, Rives Jct., Mich.

Mich.—or was a silage, hay and straw. L. E. B., Holland,
Mich.—or was a silground capsicum at a dose in feed
two or three times a day and feed them
\$300, Arthur Perrine, Rives Jct., Mich.

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Mich.—or was a silage, hay and straw. L. E. B., Holland,
Mich.—or was a silag



## **Cut Down Your Cost**

A number of the most successful dairymen testified before the Federal Milk Commission, which has been fixing the price of milk from the producer to the consumer, that they had cut down their costs of production by feeding Corn Gluten Feed and wheat bran freely in grain rations they mixed themselves.

The Commission must have been convinced by what these representative good dairymen had to say about different feeds and the economy of a man's mixing up his own rations.

For, in arriving at the price it thought the dairy-man ought to get for his milk, the Commission based its calculations on home-mixed rations in which Corn Gluten Feed was a principal basic ingredient.

Corn Products Refining Co. Made by

Write to H. CHRYSTAL, Detroit, Mich. 606 Ford Bldg.,

If you have not yet fed Buffalo Corn Gluten Feed, if you want to know more about how to feed it, and your dealer does not happen to have it, write us-giving his



## . S. P. C.

2 choice spring boars and 2 nice fall boars left, a few extra nice gilts left bred for April farrow. H. O, SWARTZ, Schoolcraft, Mich.

OOK B. T. P. C. We are selling at a great sacrifice for the next 10 days extra good gilts to farrow in Apr. choice fall bigs to make room for our herd sows. W. BREWBAKER & SONS, Elsie, Mich.

MILLER Meadow's L. T. P. C. boars all sold. Gilts Msired by General Jones and bred to our young boar Alaska, address CLYDE WEAVER, Ceresco, Mich.

Two Bred Poland China Gilts itter mates, farrowed Apr. 3, 1919. Choice individuals and choice Big Type breeding. Weighed March 10, etter than 300 lbs., not fat. Bred for Apr. 7 and Apr. 28 respectively. WESLEY HILE, R. 6,

## **BOARS!** Oh Boys!

Sons and grandsons of the Mighty Giant Buster. The big boned useful kind. Priced for a quick sale. JNO. C. BUTLER, Bell Phone, Portland, Mich.

Big Bob Mastodon pigs takes the cake, book your order now. Fall boars and gilts sired by a grandson of Disher Giant, open or bred to Big Bob for Sept. 23 yearling sons. C. E. GARNANT, Eaton Rapids, Mich

Big Type Poland Chinas son able prices. Pigs of both sex, and bred sows and gilts.

G. A. BAUMGARDNER, R.2. Middleville, Mich

Big Type P. C. Bred gilts, Fall yearlings, prize win-lows, out 1100 lb, sire and mammoth sows from lows's greatest herds. E.J. Mathewson, Burr Oak, Mich.

Big Type Polands all sold out. Watch this ad for further announcements. Breeding stock for sale in season. L. L. CHAMBERLAIN, Marcellus, Mich.

LEONARD'S B. T. P. C. bred sows all sold. Order booked for boar pigs at weaning time from Mich. Champion Herd, E. R. Leonard, R. 3, St. Louis, Mich

am offering Large Type Poland China Sows, bred to F's Orange, at reasonable prices; also fall pigs, Write or call Clyde Fisher, St. Louis, Mich, R.R.3.

6 th ANNUAL P. C. Bred Sow Sale March 13, 1920, For particulars write W. J. HAGELSHAW, Augusta, Mich. Augusta, Mich.

Large Type Poland China Stock Hogs and Bred E. H. EISELE, R. 2, Manchester, Mich

B. T. P. C. All sold out except some Fall JOHN D. WILEY Schoolcraft, Mich.

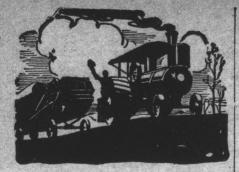
Spring boar pigs, sired by Stenben's Perfection and Cherokee Jim, 1st prize Ind. State Fair. Other winners at other fairs. Tried sows bred. Satisfaction guaranteed. Will ship C.O.D. Address.

STEUBEN'S HAMPSHIRE FARM

Angola, Ind.

Edgewood Hampshires All bred gilts sold. Now booking orders for gilts bred for fall farrow, and pigs for oig club work only. Depow Head. Edgewood Farm. Marion, Ohio.

Additional Stock Ads on Page 691



## **Ask About His Power Too**

You want your thresherman to bring a high grade grain saving thresher. But you also want him to bring the right kind of power to operate it.

Having the right engine is as important as having a good thresher because steady power means best threshing results.

You can always depend upon the thresher-

## **Nichols-Shepard** Steam Engine

He will not waste your time, and if his outfit includes a Nichols-Shepard "Red River Special" Thresher you can be sure he will not waste your grain.

W. M. Ellis and three other men of Stevensville, Mont., say, "The Nichols-Shepard Steam Engine steams easily, handles nicely and requires less repairs than any engine we ever saw."

Write and ask for our catalog on steam and gas engines and threshers for custom work and home use.

#### Nichols & Shepard Co.

(In Continuous Business Since 1848)
Builders Exclusively of Red River Special Threshers, Wind Stackers. Feeders, Steam and Oil-Gas Traction Engines. Battle Creek, Michigan







## OLD MILK PRICE STANDS

ON Tuesday afternoon Judge Arthur J. Tuttle, of the Federal Court, granted a restraining order directed to United States Attorney John E. Kinnane, prohibiting the prosecution of Detroit milk dealers for violation of the decree of the Federal Fair Price Committee fixing the retail price of milk in the city of Detroit at fourteen cents per quart. Judge Tuttle held that the provisions of Section 4 of the Lever act are too vague as to what constitutes a fair price, and that the act is unconstitutional.

As a result of this decision milk is being sold at the old price of sixteen cents per quart on Wednesday, and producers will receive the contract price for their product as fixed by the Detroit Area Milk Commision.

In the meantime District Attorney Kinnane announces that he will appeal the case to the United States Supreme Court and may prosecute the producers' and distributors' organizations. This announcement should cause producers little concern, in view of the failure to convict in similar prosecutions in other sections.

Judge Tuttle's ruling is a matter for sincere congratulation, since it is a definite check to the apparent ambitions of the United States Attorney-General and his aids to cheapen the price of milk, already the cheapest and best food in the whole market list.

## Latest Market Reports

noon, April 21.

values have advanced ten cents as follows: No. 1 red \$2.85; No. 1 white \$2.83; No. 2 red \$2.82; No. 3 red \$2.75 per bushel

CORN

A scarcity of this grain, and general strong demand has boosted prices. New York bidding up to \$3.04 and the call at western points being urgent. Local values are advanced to the following: Cash No. 3 \$1.75; No. 3 yellow \$1.80; No. 4 do \$1.75; No. 5 do \$1.71 per bushel

OATS

Cash No. 2 white oats have advanced to \$1.13 and No. 3 white to \$1.12.

For the first time in some months rye has gone beyond the two-dollar mark and is now \$2.10 per bushel for

**BEANS** 

Tone of this trade shows improvement, with local prices quoted higher at \$7.50; New York quotations are unchanged at \$7.25@7.50 for choice pea.

**POTATOES** 

Between transportation difficulties, embargoes and boycotts, prices for potatoes have been unsteady the past week. At Detroit U. S. Grade No. 1 is now selling at \$12 per 150-pound bag. New York prices are up to \$12.50@ 14 per 165-pound bag.

BUTTER

General and local strikes have created abnormal conditions in the butter trade and values have changed materially. At Detroit fresh creamery is offered at 64½c. New York trading is firmer at 68@75c for creameries.

9.75; light butchers \$7.50@8.50; best cows \$9.50; butcher cows at \$7.50@8.50; cutters \$6@6.50; canners at \$5@5.75; best heavy bulls at \$9; bologna bulls \$8@8.50; stock bulls \$7.50@8; feeders \$9@10; stockers at \$8.50@9; milkers and springers \$65@110.

Veal Calves.

Receipts 962. Market slow; many went over unsold. Best \$17@18; others \$10@14.

Sheep and Lambs.

Receipts 775. Market opened slow, closed 50c@\$1 higher on lambs, and strong on sheep. Best lambs \$17; fair lambs \$13@14.50; light to common lambs \$9@11; fair to good sheep \$11@12; culls and common \$4@6.

Hogs.

Receipts 3,636. Market is slow; a

SECOND EDITION.

few sold to speculators at \$16.80;
packers stopped at \$16.50 for mixed
hogs; pigs \$16.50; quite a number
vised and corrected Wednesday forewent over unsold.

went over unsold.

Note.—Because of the difficulties in getting live stock from the stock yards to the packing plants and to clean up that now on hand, an embargo was placed on shipments to this market ows: No. 1 red \$2.85; No. 1 white ows: No. 2 red \$2.82; No. 3 red \$2.75 morning that will stop shipments to Detroit for the present.

CHICAGO Cattle.

Receipts 20,000; beef steers steady to 50c lower; some unsold; top \$14; bulk \$11.50@13.50; she-stock steady to 25c lower; mostly \$8@10; canners are steady; bulk at \$4.50@5; bulls steady at 25c lower; calves strong, mostly \$15@16; feeder trade mostly nominal.

Receipts 29,000; mostly 25@35c lower than Monday; shipping demand active, closing strong; top at \$16.50; bulk \$14.75@16.25; bulk pigs at \$12.50 @15. Hogs.

Sheep and Lambs.

Receipts 15,000; steady to 25c higher. Spring lambs at \$24; best wool lambs \$21.75; top shorn lambs at \$19; bulk \$18.50@19; wooled Navajoe yearling wethers \$19; best ewes, wooled \$15; shorn \$13.50.

**BUFFALO** 

Cattle.
Receipts ten cars. Market rules

Hogs.

Receipts ten cars. Market is strong.
Heavy. \$17@17.50; yorkers \$19@19.25;
pigs \$19.

Sheep and Lambs.

Receipts 10 cars. Market steady.
Clipped lambs \$21; yearlings \$16@
17.50; wethers \$15@16. Calves \$7@21.

#### **GRAND RAPIDS**

frade and values have changed materially. At Detroit fresh creamery is offered at 64½c. New York trading is firmer at 68@75c for creameries.

Here, too, strikes influenced prices this past week. At Detroit fresh stock is jobbing at 42@42½c. New York market is strong with storage packed extra firsts at 47½@48c and fresh gathered extra firsts at 46@47c.

DETROIT

Cattle.

Receipts 750. Market active at yesterday's prices; account placing of embargo good many late arrivals unsold. Best heavy steers \$13@14; best handy weight butcher steers at \$10.50 @12; mixed steers and heifers at \$9.50 @10.5c; handy light butchers at \$8.50 @9.75; light butchers \$7.50@8.50; best cows \$9.50; butther cows at \$7.50@8.50; cutters \$6@6.50; canners at \$5.50; cutters \$6@6.50; canners at \$5.50 gest heavy bulls at \$9; bologna bulls \$8.08.50; stock bulls \$7.50.08; feeders \$9.010; stockers at \$8.50.09; milkers and springers \$65.0110.

Milling companies this week advanced the paying price of wheat 15c per bushel, to \$2.55 for No. 1 red and \$2.53 for No. 1 white. Potatoes are very searce and jobbers' price is \$5 per bushel. Only one car was shipped in during the week. A few small loads were brought to the city market by farmers who sold at \$4.25 per bushel for ungraded. Jobbers who specialize in potatoes state that the most serious feature of the situation is the scarcity of seed. Tempted by high prices many farmers sold out entirely, depending on picking up No. 2 stock from their neighbors have been doing the same thing. Some varieties of seed potatoes are now \$7 per bushel. Friday wholesale dealers in beans advanced the price to growers to \$6.25 per cwt. for Michigan pea and \$11 for red kidneys. They size up the situation for the forthcoming crop as follows: California and New York will plant less acreage and it will be up to Michigan to furnish the crop. Milling companies this week advancwill be up to Michigan to furnish the

> COST CHICAGO MILK MEN \$65,219 TO FIGHT CONSPIRACY CHARGE.

E XACTLY \$65,219.73 was the cost of the defense of officials of the Milk Producers' Association acquitted last fall on charges of conspiracy. Locals













21, 1917. Eight officials were indicted ness, social and religious lines. and after two years the trials were The importance of plenty of room in charges.

#### CORN BEEF CATTLE TO GO TO URUGUAY.

recent short-horn cattle sale at Chicatevideo for breeding, selecting them board and the one they are now occuentirely on merit, with little regard for pying placed on top. The natural tenpedigree.

breeders have monopolized this trade, it does not draw off the heat from the Argentina and Chile having sent many colony."-Henshaw. million dollars to them for pedigreed cattle, but Murdo McKenzie, who or SPECIAL NOTICE ganized the Sao Paulo Cattle Co., of Brazil, is of the opinion that by cooperative effort at least fifty per cent of purebred cattle and hogs could be secured in the United States."

#### NOTIFY BUYERS OF STOCK.

W HEN selling hatching eggs or breeding stock it pays to notify a buyer of the date on which the eggs or birds have been shipped. This only costs the price of a postal card and a stamp. It enables the buyer to be prepared to receive the eggs or birds and may enable him to save at least one trip to the express office by combining

the trip with other errands. A postal card similar to the following may be used:

X Station, 10-20-1918. Dear Sir:-Your valued order of 10-12-18 for two cockerels was shipped by express to-

day.
I trust that the order will meet with your approval and that we may serve you in the future.

Very truly yours, JOHN DOE.

This card proves to the buyer that the seller is interested in the prompt and satisfactory delivery of the goods and did not forget the customer as This card proves to the buyer that and did not forget the customer as arrive. soon as the order was delivered at the express office. It is best to mail such a card one day or more before the stock is shipped so that the consignment will not arrive at the local express office before the card arrives in the mail. In that case mention on the card the day that the stock or eggs will be shipped and make every effort to get them to the express office on that day.-K.

#### OUR M. A. C. LETTER.

D LANNING an organization more active than ever before, students at M. A. C. have re-formed the agricultural club, which before the war did much to keep the undergraduate body in close touch with farm conditions and farm problems of the day. This time, however, an attemp made to incorporate as many as possible of the best features of similar clubs at other land grant colleges. A questionnaire inquiring about the form of organization, purposes, activities and nature of the meetings, and asking a sample copy of whatever magazine is published, has been prepared and will be sent to the secretaries of these clubs, particularly in Ohio, Indiana, Illinois, Wisconsin and New York.

Whatever the direction the activities of the new rejuvenated body take, they will be planned so as to interest every student who expects to follow agricul-

in the organization have been called tural pursuits after leaving school. The parms and Farm Lands For Sale 18.6. Brown Legherns white Petron deck ours 11.50 for 15. 18 per 100. upon by W. J. Kittle, secretary, to pay college has a potential membership of MRS. CLAUDIA BETTS. Hillsdale, Mich. several hundred. Officers elected for Figures of the association's treas- the coming year are: President, E. L. ury show that up to the last account- Overholt, Athens; vice-president, Jas. ing \$26,455.\$8 had been left unpaid by Tyson, Bay City; secretary, R. R. Nellist; treasurer, K. D. Bailey, Reading.

The case started when operatives Steps to form an agricultural club from State's Attorney Hoyne's office are considered especially timely beconducted a raid on the office of the cause of the great interest in pressing association in Chicago on September farm issues of the present along busi-

held, resulting in the dismissal of the order to produce 75,000 to 100,000 bees in a colony between now and the main honey flow is emphasized by B. F. Kindig, bee-keeping expert at M. A. C.

"More space is needed than is furnished in the ordinary eight or ten-URUGUAYAN buyers were partly frame hive," he says. "The extra room responsible for the success of the must be given as soon as conditions become crowded in their present hive go, averaging more than \$1,000 per body. When giving the extra hive head, and they took 150 head to Mon- body it should be put on the bottomdency of the colony in spring is to ex-Heretofore, the English and Scottish spand downward. Also, if placed below

Ship your Eggs, Live and Dressed Poultry, Dressed Calves, Pork, Lambs, & etc., to

**DENNIS & HERRING** NEW YORK CITY, N. Y.

Bonded Commission Merchants. This old reliable firm has two of the best located houses in N. Y. City for securing Highest Prices and their salesmen are

EXPERIENCED EXPERTS TRY THEM, RESULTS WILL PLEASE YOU

> For Best Net Results Ship to

CULOTTA & JULL Detroit, Mich.

"Enough Said!"

#### Use Swift-HAY Service AT CHICAGO

You can BUY all types of FEEDING HAY from and SHIP your surplus to

Swift-HAYnes Co., BOARD OF TRADE, CHICAGO

#### Mr. POULTRY FARMER:

GEO. R. ELDRIDGE CO.
494-18th Street, Detroit, Mich.
ember! We guarantee you satisfaction with every ships

Ship to The Old Reliable House Daniel Mc Caff ey's Sons, 623-625 Wahash Bldg., Pittsbu

SHIP Carloads Hay and Potatoes to the old reliable firm E. L. Riehmond Co. Michigan.

BARN PAINT \$1.32 PER GALLON ory priceson all paints. We guarantee qual-pay the freight. Color Works. Dept. 14. Franklin, Ind.

DYNAMITE, I sell direct to the farmer, If you live in Michigan I can save you V. C. DOANE, B. 2. BEAVERTON, MICHIGAN

Wanted experienced single man to work on farm by month, good wages.
CLAUD SIMMONS, R. 5, Plymouth, Mich.

## Crystal Spring Farm

216 acros. Ten acros timber value over \$600. Farm well fanced and in a high state of cultivation. Adapted to heat growing and dairying. On State Read one mile from B. H. station ½ mile from School ½ mile from Bordens milk station. Between two villages 6 and 4 miles distant. Elegant newly painted buildings, lighted by gas. 90 fruit trees, 30 head Holsteins, 4 horses, 10 H. P. gas engine, blower for silo Silling, wood sawing outfit. All farm implements, corn harvester, reaper etc. Tenant house. Running water at house and bern. I have lived on this farm and worked it for the last 40 years. Only ½ cash, balance on 55 mortgage. Write for pictures. No agents. PHILIP E. QUICK. Gatatonk, N. K.

80 Acres Some timber, good nine room basement house, good basement bars 36x82 tool house lated hen house lated good wormen wire fences, close to school and church, one mile from Orino 534 miles from Reed City, railroads at both places. Following personalty goes with farm, 4 good young draft horses, 4 cow, 2 yearlings, I calf, 2 good hogs, one mower, hay rake, drill, two walking plows. 2 drags, 3 cultivaries, 50 chickens, 2 single buggiss. I double buggy, I low and one high wheel wagon, one pair sleighs, one mower, the property of the state of the market this year. Write W. F. Umphrey, Evart. Mich.

#### Only \$600 Cash Needed

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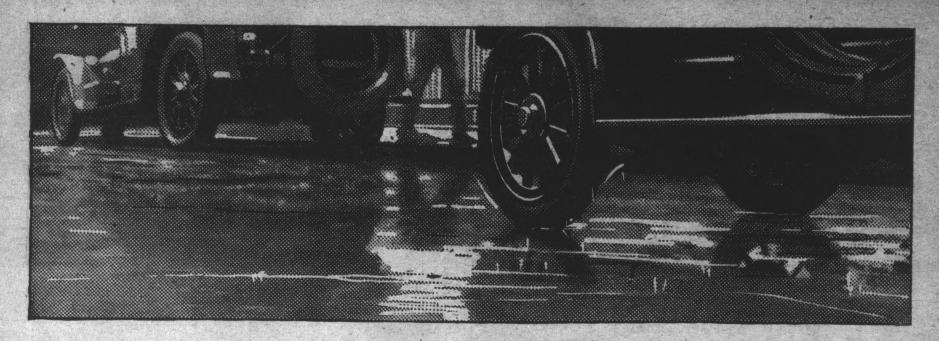
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