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# Market for Michigan Beans

LARGE number of bean growers, bean jobbers, elevator men, and others interested in the great Michigan bean industry met at the April 23.

The large convention hall in the lowed. Bancroft Hotel was filled to capacity when the meeting was called at 2:30 p. m. The meeting was called to order by Mr. M. J. Hart, who briefly spoke was called for the purpose of discussinterest of the Michigan bean industry to counteract the effect of the campaign being pushed by the bean section of the Food Administration to introduce and stimulate the consumption of western pinto beans by appealing to the patriotic instincts of consumers.

Only a Clear Right of Way is Asked. Following Mr. Hart's introductory address Mr. Nathan F. Simpson was elected chairman of the meeting and Mr. Fred Cross secretary. In brief but well chosen remarks Mr. Simpson discussed the situation which led up to the meeting and the attitude in which bean growers and dealers of Michigan should properly approach the question. He emphasized the fact that all that Michigan growers or dealers could ask for Michigan beans was a clear right of way in the market on even terms with the product of other sections of the country, and that if possible this should be secured without causing friction which would reflect upon future

production. The meeting was attended by Governor Sleeper, who made a short address in which he offered to accompany any delegation which might be sent to Washington to take this question up with the Food Administration, and emphasized his belief that the government of the United States would not knowingly discriminate against an important product of Michigan.

Two Views of Price Fixing.

Mr. Almendinger, a former president and secretary of the Michigan Bean Jobbers' Association spoke briefly urging conciliatory rather than drastic action by the convention. He expressed the opinion that the present situation was in part due to previous efforts to force the price on Michigan beans to a very high figure, thus stimulating production in other sections of the country.

In response to this view of attempts at price fixing by the Michigan Bean Growers' Association, Mr. A. B. Cook, president of that organization disclaimed attempts at absolute price fixing, and emphasized the fact that the action of Michigan bean growers during the past three years in designating a price which would cover cost of production plus a reasonable profit, based on an accurate knowledge of the condition of the crop at harvesting time and the conditions under which it was produced, is in accord with the governSlogan of Allied Michigan Bean Interests at Saginaw Meeting

Effect of the Patriotic Appeal.

fact was a striking illustration of the successfully combated. power of such a campaign. It even ers' Association.

Mr. Cook had an interesting exhibit along this line in Indianapolis, which future production. composed of two jars of cooked beans, was taken as a typical example of the Michigan white beans and western large bean distributing centers. Mr. of the object of the meeting which pinto beans, which were passed around Llewelyn spoke of the proposition from viewed the history of government bean

brought pinto beans to the table of the man, large bean handlers, also spoke the present time, and to stabilize fu-

be taken by the convention and urged that a strong committee be sent to Washington to make proper representations to the Food Administration re-Bancroft Hotel in Saginaw on Tuesday, which the average cost of production to force pinto beans on the markets of garding the need of an unrestricted plus a reasonable profit has been al- the country for domestic consumption, outlet for Michigan beans at the prescommunications were read showing ent time in order to aid growers in that special efforts were being made moving the present crop and stimulate

Future Contracts Suggested.

State Market Director McBride reamong those present for examination. another angle, intimating that united purchases down to the present time, ing what action should be taken in the As illustrating the method by which western influence might be in a meas- pausing to comment on the fact that the consumption of pinto beans is be- ure responsible for the pushing of the California white beans were taken at ing encouraged Mr. Cook stated that a pinto beans, and advocated a closer eleven and one-fourth cents per pound local merchant induced his wife to buy affiliation of producing, marketing and on government orders, and pinto some of these pinto beans because it distributing interests in this state, to beans at eight cents. He suggested was the patriotic thing to do, which the end that such influences might be that the committee appointed might well urge the Food Administration to Mr. W. I. Biles and Mr. E. L. Well- take a portion of the Michigan crop at president of the Michigan Bean Grow- briefly, expressing the same opinion ture markets and production by conwhich had been advanced by other tracts for next year at a price suffi-With regard to the steps being taken speakers regarding action which should ciently in advance of the pinto bean price to represent the usual market differential, it being stated that contracts are now being offered for pinto beans at eight cents per pound for this year's crop.

> Mr. M. J. Hart briefly discussed this suggestion and moved that a committee composed of Chairman Simpson and four other members to be appointed by him representing the allied bean interests of the state be delegated by this convention to take the proposition up with the Federal Food Administration at Washington, which motion was unanimously adopted.

Growers Are Patriotic.

Pending the consideration of these appointments remarks were asked for from representative growers. Mr. Cook, president of the growers' association first called out Mr. King, of Montcalm county, who received an ovation from the convention for his patriotic statements declaring that while conditions had been bad and the crop an unprofitable one this year, the farmers of Montcalm county, and he believed of Michigan, would plant beans to feed the boys to help win the war, whether they made a profit or not.

Mr. W. H. Keddy, of Genessee county, believed strongly in the soundness of the cost plus profit theory, and believed that farmers should follow this idea as a business proposition, whatever their action from a patriotic standpoint might be. Mr. Fred Gosen, county, also spoke in patriotic vein, stating that he believed the farmers of his county and the state would do all in their power in the matter of food production this year. Mr. Slichter, of Gladwin county, approached the problem from the standpoint of the farmers of more newly developed sections of the state.

The Bankers' Attitude.

Mr. Rankin, of Huron county, spoke on the subject from the standpoint of a banker whose duty it is to finance the operations of the bean jobber and (Continued on next page).

ishington, D. C

ment policy toward other industries in Food Conservation Makes the Pinto a Temporary Rival of the Navy Bean-

## The Michigan Farmer

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DETROIT, APRIL 27, 1918



CURRENT COMMENT.

Dairymen every-

business during the past year. The general situation has been very greatly benefited by the demand for condensed milk for army use and for export to foreign countries. This export business has been greatly curtailed in recent months by the lack of cargo space and there is now a large accumulation of condensed milk in tins stored in warehouses in this country. This accumulated surplus, together with the limited cargo space available for its shipment in the near future seems very likely to limit the amount of whole for dairying is a source of growing tion. concern on the part of many who are engaged in the business.

demand for dairy products of all kinds ered war work, and it has been neces-

tion already exists, as is the case in several states. Working in conjunction, these organizations could do much toward the solution of the problems now confronting the dairy industry. Some effective work is already being done along this line, as will be noted by a careful reading of the milk news from Field Secretary Reed, of the Michigan Milk Producers' Association which is published in another column. Disposing of valuable dairy cows as a solution for the temporary difficulties now confronting the dairy industry seems like killing the proverbial goose that laid the golden egg, in view of the future prospects for profitable dairying after the war has been won.

by the government.

In the meantime there remains a Others believe just as strongly that the open market. milk which can be manufactured into the price fixing program should be excondensed milk products during future tended to practically all necessities,

The great economic difficulty encounfinally over there will be a very great Labor difficulties have seriously hamp- section. for European consumption. The only sary, or at least has been deemed exdifficulty at the present time is the pedient to advance the pay of workdemand is in evidence, and just as only once but repeatedly to even apsoon as more ships are available, any proach the schedule of production surplus of dairy products now in reserve will be quickly exhausted.

By keeping their dairy herds intact and looking for a better solution of the a difficult proposition under these constants.

Wednesday, April 17.

Germans are successful in capturing Wytschaete, Wulverghen and Bailleul, important positions near Ypres. Included in their successes is also a portion of Messines Ridge. British hold out before Merville and the French put down raiding parties before Amiens lack of transportation facilities. The men in almost every war industry, not-

ized dairymen in this state through the promise greater advantages in the pres-

Western Michigan Development Bureau, talked briefly in his usual happy style, and emphasized in the most positive terms that the only thing worth living for under present conditions was to lick the Germans.

The Personnel of the Delegation.

At this time Chairman Simpson ansenting the bankers. These gentle for May 1. men, together with Chairman Simpson, men, together with Chairman Simpson,
Governor Sleeper, I. R. Waterbury,
The proposal to adPrice Regulation. vance the price for wheat grown in 1918
above the price fixed by the President and announced through the Food Administration which has been under consideration in congress for some weeks, has failed of passage by that body. Rumors are now emanating from Washington that a more compression of the state of the st much concerned hensive plan of price regulation, inregarding the future outlook for their cluding necessary commodities other
ticularly to the effect of the pinto bean ported beyond the billion dollar mark. than food stuffs is under consideration campaign on the industry for the consideration of the Food Administration.

Members of this committee as well wide difference of opinion among think- as growers and dealers generally are ing people of all classes regarding the confident that when this proposition is ish. Germans make a strong attack expediency of price regulation, even in thus presented, some action will be northwest of Toul, but after furious expediency of price regulation, even in thus presented, some action will be the present war emergency. Many taken by the Food Administration to hand fighting are obliged to re the present war emergency. Many taken by the Food Administration to the hand to hand fighting are obliged to re the present war emergency. The present war emergency of relieve a city of the control of the c people believe that a disturbance of relieve a situation which threatens to the natural economic balance by fixing seriously affect next year's production prices on even the most vital necessi- in this state, as well as the free and front at American and also in Flanders.

Two American ships are reported. prices on even the most vital necessi- in this state, as well as the free and ties is not only an injustice to productive unrestricted marketing of the present lost in war zone on which eighty-five ers, but as well a menace to a future crop on an even basis with the propersons perished.—Irish members of ers, but as well a menace to a future crop on an even basis with the proadequate supply of such necessities. duct of other sections of the country in

Conservation vs. Production. months. On this account the outlook including essential factors of produc- being pursued may be well calculated to conserve the present bean crop, since the trade accustomed to the since the trade accustomed to the ejecting Germans from the village of Seicheprey, which was recently reported taken from the Americans. Pershing's men also defeat the enemy's efficiency to the conservation of the Franch from the Franch tered in any program of price fixing is handling of white beans will not pur-As is ever the case under similar the factor of labor. The labor prob chase pinto beans freely with the conditions, there are many dairymen lem was a serious one for farmers ev- knowledge that their trade does not who can see no silver lining to the en before the outbreak of the war, and want them, neither will they purchase cloud, and who feel that the only solu- is certain to be increasingly serious navy beans freely in the face of a pation is a reduction in the dairy cow during the war's duration. The with- triotic appeal of this kind. While food population of the country. Before tak- drawal of millions of men from indus- conservation makes the saving of the ing a radical step of this kind, how- trial occupations for military duty is entire bean crop necessary, this result ever, every dairyman should pause to certain to aggravate an already seri- should, if possible, be secured without consider the fact that when the war is ous labor problem in other industries. hardship to the bean industry of any

#### HAPPENINGS OF THE WEEK.

Wednesday, April 17.

Michigan Milk Producers' Association thoroughly demonstrates the value of organized effort. Through the effective work of this organization the producers of market milk have been able to secure a living price for their product in many sections of the country. The same organization has added many thousands of dollars to the income of dalrymen who have contributed raw material for the making of condensed milk during the past year.

Every milk producer in Michigan should affiliate himself with this organization at once. This would be an inspiration to the dairymen of other states to take like action, particularly where the nucleus of such an organization already exists, as is the case in reau, talked briefly in his usual happy

ent emergency, although such control has not proven wholly satisfactory in the satisfactory in the satisfactory in practice.

OPEN MARKET FOR MICHIGAN

BEANS.

(Continued from first page).

(Continued from first p

Friday, April 19.

French troops come to the assistance of the English and the Allied line holds everywhere.—Germans make extraordinary violent attacks between Givenchy and Robecq without results.—The French carry positions before Amiens.—Berlin admits counter attacks. tack halts forward movement.—British nounced the members of the committee to represent various allied bean interests as follows: W. I. Biles, of Saginaw, representing the bean jobbers, with M. J. Hart as alternate; Christian Breisch, of Lansing, representing the elevator men; Frank Gerber, of Frederick as a shake-up in which war cabinet has a shake-up i elevator men; Frank Gerber, of Freto-tro-German government.—A new scale mont, representing the canners, and James B. Crawford, of Ithaca, reprelantic coast navy yards is announced

Saturday, April 20.

Allied positions in Flanders are materially improved by successful attacks northwest of Bethune by the French and near Givenchy by the Britzel British Commons adopt resolutions to remain in Ireland to fight the draft measure.—A foot of snow falls in northern Michigan.—Philadelphia is As the chairman well said, the course put under United States police control.

Monday, April 22.

ing's men also defeat the enemy's efforts to separate them from the French farther to the west.—British forces drive the Germans from Robecq trenches.—German troops fail in an effort to break through the British lines northeast of Ypres.—Japan turns over sixty-six ships for use of the United States government.—British and German light naval forces clash east of man light naval forces clash east of Heligoland and the latter retire behind mine fields.—Civil war is reported in Russia, with the Soviet troops opposed by an army under General Korniloff.— Earthquakes shake southern California coats towns, entailing a property loss of \$500,000.

Tuesday, April 23.

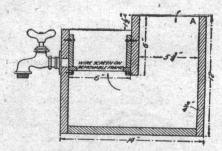
Events along the battle line in France and Belgium portend new Ger-By keeping their dairy herds intact regulation of commodities will be found and looking for a better solution of the country will be pursuing the wise course. Acting independently and alone they can do little toward the solution of this problem. Acting to gether through an effective organization they will be able to find a better solution for present problems than the sacrifice of the dairy cows which will be avaluable asset when normal conditions are again restored. The success which has been attained by organized dairymen in this state through the regulation of commodities will be found out before Merville and the French put out before Amiens, while the Americans and Germans are contending for positions near St. Mit on the American forces are contending for positions near St. Mit on the American sand Germans are contending for positions near St. Mit on the American sand Germans are contending for positions near St. Mit on the American sand Germans are contending for positions near St. Mit on the American sand Germans are contending for positions near St. Mit on the American sand Germans are contending for positions near St. Mit on the American sand Germans are contending for positions near St. Mit on the American sand Germans are contending for positions near St. Mit on the American sand Germans are contending for positions near St. Mit on the American sand Germans are contending for positions near St. Mit on the American sand Germans are contending for positions near St. Mit on the American sand Germans are con man offensive. Violent artillery efforts have been in progress along practically victories, is shot down on the Somme front.—Guatemala breaks diplomatic relations with Germany.—American casualty list contains seventy-one names,—Canada is planning to raise story general of the United States mergency fleet corporation.—Abattoir t Union Stock Yards, Toronto, Ont, urns, entailing a loss of \$750,000.

Thursday, April 18.

English yield Poelcapelle and Lange-

# Practical Suggestions

age in order to remove the coarser un- the building. dissolved particles. Any kind of a strainer having either brass or tinned iron wire (never copper), thirty to fifty meshes to the inch may be used. mesh more or less and thereby will such a silo in the ground. prevent the rapid flow of the solution



ed to overcome the clogging of the of the model shown in the illustration. believe it is an ideal silo. With this type of strainer the material is poured in at A and is strained up- men can build it themselves, and it particles settle to the bottom of the box. strainer, instead of lodging on the screen as in the ordinary type of strainer.

#### RAT PROOF CORNCRIB.

After the lime-sulphur has been this belt of sheet metal about a foot in made it should be strained before stor- width may be tacked to the outside of

#### SILO IN GROUND.

In the Michigan Farmer of April 6, With the usual type of strainer, how- R. E. M. inquires about a silo for two ever, the sediment will clog the wire cows, and asks if it is practical to build

I beg to differ with the party who anthrough the screen. A strainer design- swered it, as I know from experience that it is practical to have a silo in the ground.

> I have one that is seven and a half feet across and twenty-one feet deep, that I have used for four years, and see no reason why one could not be made three or four feet across and be a perfect success.

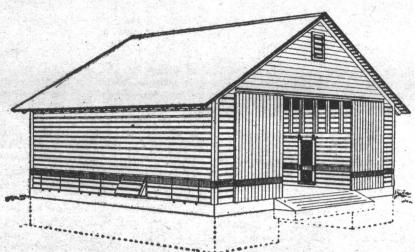
For a large herd of cattle it might be too much work to draw the silage, but for a few head it is not. I am never troubled with the silage freezing and the silo never needs any repairs, and screen may be made upon the principle for the man keeping but a few cows I

It is practical and cheap, and most ward through the screen. The coarse can be filled with a common cutting

Leelanau Co. C. H. MILLER.

#### HYGIENIC SIDE OF LABOR SAV-ING.

There is a closer relation between The common practice of setting corn- the use of labor-saving devices upon cribs on posts with inverted pans at the farm and the health of the country the top often fails to exclude rats, be- people than is ordinarily suspected. cause the posts are not high enough to Save in regard to certain diseases and place the lower cracks of the structure the variations due to different localibeyond reach of the animals. As rats ties there is no very alarming differare excellent jumpers, the posts should ence, according to most authorities, in be tall enough to prevent the animals the average death rate the country ovfrom obtaining a foothold at any place er between people who live in the open within three feet of the ground. A crib country and those who live in the citbuilt in this way, however, is not very ies. Certain diseases exert a heavier toll in the country, while others claim For a rat-proof crib a well-drained the most victims in the congested censite should be chosen. The outer walls ters. Each locality averages up fairly laid in cement, should be sunk about well against the other. But the death twenty inches into the ground. The rate tells nothing conclusive about the



One Way to Defeat the Rat Nuisance is to Construct Rat-proof Buildings.

space within the walls should be grout- general health conditions. It tells the ed thoroughly with cement and broken story of the average number of lives stone and finished with rich concrete which are terminated each year in varfor a floor. Upon this the structure ious places but it tells nothing of the may be built. Even the walls of the average condition of those lives before crib may be of concrete. Corn will death ensues. not mold in contact with them, provid- Observation and such statistics as ed there is good ventilation and the are available indicate that the general is water-tight.

three feet from the ground, and above

health of country people is not as good However, there are cheaper ways of as that of city folks. Among men it excluding rats from either new or old has been found that they "break" earcorneribs. Rats, mice, and sparrows lier in life on the farm, due to the exmay be kept out effectually by the use acting stress of farm work. Farm men of either an inner or an outer covering may live long, possibly longer on an of galvanized-wire netting of half-inch average, than men in the city, yet is mesh and heavy enough to resist the their "strength labor and sorrow," as teeth of the rats. The netting in com- the good Book puts it. They endure mon use in screening cellar windows a longer span of years during which is suitable for covering or lining cribs. their efficiency is less than the effi-As rats can climb the netting, the en- ciency of men who live in cities. In tire structure must be screened, or, if other words, they wear out sooner. And sparrows are not to be excluded, the while they may live long in spite of wire netting may be carried up about this they are not able to do their bit (Continued on next page).



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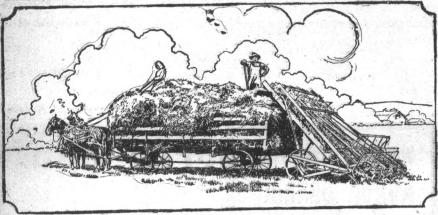
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## Will the Potato Market Improve?

ested in the tuber problem right field-run stock. The bulk of the 1917 crop is unsold and in growers' hands, with no the grower somewhat.

of three per cent by weight was allow- better. ed for potatoes below the other requirements of U.S. Grade No. 1.

Greater Tolerance.

amended this tolerance statement to the number had increased to 841 in grading and handling, ten per cent by machines are easy to operate. tions of U. S. Grade No. 1 may be per acre.

This is a move toward establish ing the single grade of No. 1, made up big crops and low prices, and when the of potatoes that, as to size, will pass yield is small nothing but the culls, of over a one and three-fourths-inch course, are dried. Drying reduces the round mesh screen, and as Michigan weight three-fourths and the dried progrowers have been asking for.

cal associations, with better marketing longer an experiment in Germany. methods as the chief end in view. The There are two types of drying, the Hobart Potato Growers' and Sellers' shredding of the raw potato to pieces Association was formed recently in the size of a small lead pencil, and drysouthern Wexford county, starting with ing under intense heat, and the flakmeet at Hart on April 20 to form a dried by running through hot rolls. similar body.

factories are reported opening in Min- corn in the ration almost wholly.

HE potato growing states, include nesota that are paying farmers sevening Michigan, are deeply inter- ty-five to eighty cents per cwt for the

What we might Do.

It is interesting to note what Germarket for them, and the outlook is many, our enemy country, has been dark. Potatoes are being fed to stock. doing with her enormous potato crops A. M. Smith, of Lake City, president of in recent years. We are even told that the Michigan State Potato Associa- the fate of Germany depends on the tion, was in Washington recently and potato behind the man behind the gun he announces that while Senator in this war. Before the war consump-Smith's measure to do away with po- tion of potatoes in that country was tato grades was killed, the agitation about three and a half pounds per over the present rules has brought adult per day, while the production about a modification that should help was far ahead of that of any other country. Germany raised fifty-five mil-The United States Bureau of Mar- lion tons in 1914, while in 1915, the kets established two grades, the size first year of the war the production requirements being minimum diameter was still over forty million tons, or of one and seven-eighths inches for enough to supply her people with twen-No. 2's. A tolerance of five per cent ty-five pounds per capita per day. There by weight was allowed for potatoes be- was a crop failure in 1916, with prolow the minimum size for the partic-duction estimated at twenty-three milular grade and in addition a tolerance lion tons. The 1917 crop was much

Germany learned almost twenty years ago that potato drying plants pay, and from three of such plants Now the Bureau of Markets has found throughout the empire in 1903 read as follows: "In order to allow 1916. Roller apparatus and drum drifor variation incident to commercial ers are now generally used and the

weight of any lot may be under the Germany grows great quantities of prescribed size, and in addition three tubers for industrial uses, including per cent by weight of any such lot starch, denatured alcohol and for drymay be below the remaining require- ing. Thousands of tons are dried for ments of this grade. In the grading of stock food and market quotations potatoes no method or screen shall be there regularly cover potatoes for eatused which will place in the No. 2 ing and potatoes for manufacturing, grade more than five per cent by the latter being about one-third less in weight of the No. 2 potatoes that are price. Potato breeding for starch conabove the size requirements for this tent is common and experiment stagrade, provided that by agreement be- tions are maintained for this purpose. tween contracting parties grades in The increase in starch content often size and quality above the specifica- means smaller potatoes and less yield

A Market Regulator.

Potato drying has developed from duct is readily shipped any distance Michigan growers are organizing to- and keeps indefinitely. Drying is no twenty-five members and \$3,000 sub- ing process, when potatoes are first scribed. Oceana county growers will cooked by steam, then mashed and Both are used as food for horses, cat-Growers in the Grand Traverse reg- tle, sheep and swine and are quoted ion are interested in the statement regularly in market reports. The flakes that a factory at Traverse City has are preferred, however, because they been remodeled for the manufacture of are more digestible, even though the potato flour, potato chips and potato cost of manufacture is considerably stock feed. The No. 2 grade, or at least higher, ranging from \$2 to \$2.50 per field run stock will be used principally ton. Out of 404 factories operating in and the plant's capacity is estimated 1911, 314 made flakes. This food is at 1000 bushels a day. Potato starch used largely for hogs and replaces

## How Farmers Can Get Flour

N order governing the amounts grits, corn meal, corn flour, edible corn the United States Food Administra- meals. tion.

of wheat flour to a person living in a cates thus received. thirty days.

sufficient supply of such substitutes quantity of flour to be consumed mill-These are defined as hominy, corn

of wheat flour that wheat and starch, barley flour, rolled oats, oat rye millers can sell to farmers meal, rice flour, buckwheat flour, potaor give in exchange for wheat has been to flour, sweet potato flour, soy bean promulgated by the Milling Division of flour, milo, kaffir, feterita flour and

Each miller must forward to the Fed-The order limits all millers to the eral Food Administration of his state sale of not to exceed forty-nine pounds on the first of the month the certifi-

rural district. In addition, no miller When a farmer brings wheat grown may knowingly sell quantities to ex- by himself to the mill to exchange for ceed a customer's requirements for wheat flour the amount of the flour that can be exchanged shall not exceed The miller must require the custom- an amount that, with flour already in er to accept wheat substitutes of equal the hands of the farmer, will reasonweight to the flour purchased, unless ably meet the requirements of his the customer submits in writing a cer- household or establishment during the tificate showing that he has on hand a next thirty days. In determining the

(Continued on page 552).

# Shifting Costs Money

with any breed and the farmers who duced. stick to one line seem to have the best success.

tory to manage.

tice of buying a few fowls or a few from one breed to another. hatching eggs from another breed

Every farmer who changes from one whenever the farmer becomes discourbreed to another finds that it costs aged with his own stock. If the same money. He finds that the new breed money had been used to buy better may not be as good as he thought and stock of the same breed to improve or his old stock was not given full credit breed up the home flock, the investfor its value. Of course, there are of- ment would have paid better dividends. ten good reasons for making changes, It takes some time to build up a large but in general they should not be made flock of profitable fowls and if the too frequently and it pays to remember farmer is constantly shifting from one that one year cannot tell a whole story breed to another the profits are re-

Experience counts a great deal in any kind of farming and constantly The hog breeder may become dis-shifting from one breed to another simcouraged because of lack of feed or the ply cuts down the amount of experilow price paid for pork. Therefore he ence with any one breed and reduces goes out of the hog business. Then the chances for success. One farmer pork goes up and his neighbors find it will succeed with live stock without profitable. He becomes interested and any apparent effort after years of buys stock when pork is high. It is studying the breed. Another farmer the farmer that sticks to his business may take the same stock and immediand bases his profits on a ten-year av- ately begin to fail, although he seems erage who will find any breed of live to be trying hard for success. It is the stock the most profitable and satisfac- factor of experience which makes the first farmer successful and the experi-Poultry flocks on the farm frequent- ence is the result of sticking to one ly become mixed because of the prac- line instead of shifting too frequently

R. G. KIRBY. Ingham Co.



The Lamb Feeding Business is no Small Part of Michigan Sheep Industry

#### To Insure Health Stock

ed carefully, will go far toward insur- your horses when you stop work at ing the health of the animals on our noon and at night, and clean the infarms and increase their service, eith- side of the harness, the collars espeer as food or work animals. The Work- cially. The salt sweat, drying on the horse Relief Association has given us skin and on the harness, is what these pertinent facts:

1. Do not fail to provide clean, warm Navel ill comes from dirt.

3. It is bad policy to turn the stock to pasture before the grass has well fering to the horse. started-bad for the pasture and bad for the stock.

morning. Then they will feed through not cost you a cent, and will make a the night, and not lie down until the big difference in their condition. sun has warmed the air and ground.

5. Get your horses into condition for the hard spring work—the young horses especially. Many a colt has been ruined by being put to hard work with- the ashes should be carefully preservout preparation. It is the same with green horses.

6. Look out for sore shoulders and of the forelegs.

7. When the horses are at work on a warm day, lift up the collars now and then to cool their shoulders, and wipe off the sweat and dirt with a bunch of grass.

The following suggestions, if follow- 8. Wipe off the harness marks on makes the trouble.

9. If the skin is wrinkled under the quarters in which your cows, ewes and collar or saddle, bathe it with witchmares can bring forth their young. hazel. If the skin is broken, bathe it with clean warm water containing a 2. It is dangerous to expose young little salt. Fix the collar, with padding stock, especially foals and colts, to the or otherwise, so that it will not touch spring rain-storms. A day's exposure, the sore spot the next day. A little if not fatal, may stop a month's growth. carelessness at the beginning may cause a lot of trouble to you and suf-

10. Clean your horses at night, water them, give them a good bed, and 4. A gradual change from hay to water them again after they have eatgrass is best; but, if you are bound to en their hay. Let them rest an hour make the change at once, turn the or more before they are grained. The stock out at night, instead of in the observance of these simple rules will

#### CORNCOB ASHES.

Wherever corncobs are used for fuel, ed and used as fertilizer as they contain about thirty per cent potash, or about five times as much as wood backs, especially in plowing. Be sure ashes. It would pay large feeders to that your collars fit. A collar too big gather up the cobs and burn them for is as bad as one too small. If the col- this purpose. Many times millers are lar rides up, use a martingale, or a glad to get rid of cobs and they may girth running from trace to trace, back be had for the asking. Farmers should never let a chance like this pass by.

H. L. SPOONER.

The way to wealth is as plain as the way to market; it chiefly depends on two words, industry and frugality.—Benjamin Franklin.



# The Spirit of War Service

Alone in the midst of war's desolation, the telephone lineman crawls to mend the broken wires.

On all sides the thunder of artillery; in the air bursting shrapnel.

He faces danger with that unconquerable spirit of war service which permits him to think only of maintaining the telephone connections.

The safety of the troops depends on these lines of communication, often used for the sentries' warnings, the carrying of official commands and the summoning of reinforcements.

In a dark hole hidden among sparse brushwood are the telephone operators, some of whom have been for months in their damp cave ceaselessly swept by shells.

And they are admirable, all these heroes of the Signal Corps, whether serving in darkness or in the all too bright light of day.

The spirit of war service, over here as well as over there, furnishes the nerves, the endurance, the morale—the stuff that wins war.



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Our Selling Plans Make This Possible.

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Especially designed for Gasoline or Kerosene Engines from 4 horse up to and including the largest tractor. Equally suitable for Electric or Steam Power.

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We also manufacture Ross Wood and Metal Silos



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# The Farm-Labor Crisis

and My solution that will appeal to every Farmer

This year my farmer friends are asked to produce more than ever before. And they are going to do it. But they are certainly up against it for help. Hired hands are scarce, hard to get, and expensive.

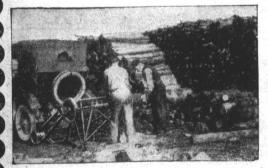
That's why I'm so glad to be able to make this announcement just at this time. I have a device that makes a giant, never-tiring, never complaining hired-man of the farmer's car.

#### Cheapest Belt Power in the World

It takes the wonderful power of your automobile, and gives it to you in a form that you can set to work at all the jobs around the LAY Porta-Power, instantly slipped against the rear wheels of your car (any make) gives you the cheapest belt power in the world, a wonderfully satisfactory portable engine of 5-8 H. P., that costs from \$100 to \$250 less than any comparable gas engine.

It is all steel, and proof against wear and trouble. The Money Back Bond insures satisfaction or a refund after 30 days' trial. It pumps water, runs hay press, ensilage cutter, pea and clover huller, rice and grist mill, corn sheller, fanning mill, elevator, buzz saw, milker, separator, cider press, washing machine, pump jack, irrigating pump, sprayer, concrete

L. A. Young Industries, Inc. Detroit, Mich., Dept. 49



Some farmers are going to get LAY Porta-Power free, as the results of my special offer to early buyers in each community. Better write me now for all the particulars, so you can be the man to profit by this offer in your locality. Ask me about my plan, to-day.

L. A. Young

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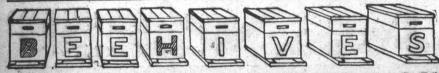
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# Orchard Soil Fertility

By W. C. ECKARD

the different systems of orchard man- pared to 37.44 pounds of nitrogen; 6.12

sod and mulch systems, the sod sys- that in the straw of the wheat. tem, the clean cultivation system, and the cultivation and cover crop system. The first and last named systems are the only ones worth considering where planning a permanent system of orchard management.

#### The Mulch System.

the trees, this is an almost ideal meth- each year in the burning of prunings. od but expensive; second, where the

N considering the matter of fertili- removes from the soil 11.28 pounds of zation of orchards perhaps it will nitrogen; 1.88 pounds of phosphorous; be well to first discuss somewhat and 13.16 pounds of potash. As compounds of phosphorus, and 7.74 pounds While there are innumerable sys- of potash for a thirty-bushel wheat tems of handling orchards there are crop per acre. This not including the only four which are very widely used amount contained in the leaves on the for bearing orchards. They are the trees required to grow the apples, or

#### Orchards Need Fertilization.

We will assume that the leaves from the apple trees are held to the land which produced them by the cover crop, and that the straw is returned to the soil as crop residue.

In addition the plant food contained With the sod and mulch system for in the fruit produced there is consideryoung trees there are at least two dis- able being used to grow the trees tinct methods which may be followed: which sooner or later will be taken off First, where all the land is in a legume the land and used for fuel, also considand the crop cut and used to mulch erable nitrogen is likely to be lost

From these figures one may be led tree rows are in sed and the trees to believe that the fertilization of ormulched, with the spaces between the chards is not as important as the ferrows cropped with either cultivated tilization of land used for growing the crops or hay, or small grain crops. In grain crops, but when considering that this case it is necessary to use at least 100 barrels of apples per acre is not a part of the hay for mulching, or in large crop, and that thirty bushels of



The Result of Proper Fertilization and Care.

tion cover crop system.

and each year cut the sweet clover for of phosphorus or potash. seed, and return the straw to the trees as mulching, hoping to secure returns enough from the sale of seed to pay the cost of growing the orchard to bearing age.

#### Humus a Necessity.

the spaces away from the tree rows; matter and nitrogen. each year enlarging the cultivated

either of these systems. Assuming, will do. even, that we can by these systems se-

A 100-barrel per acre crop of apples crop.

case grains are grown the straw must wheat per acre is quite a large crop, be returned for mulching. In case cul- also that as a general thing orchard tivated crops are grown mulching from soils are likely to be poorer naturally outside sources must be secured, and a than wheat soils it may be more imcover crop should be sowed at the last portant than at first would seem to be cultivation the same as in the cultiva- the case. However, it is very likely that with the better orchard lands the Personally the writer sometimes limiting factor in crop production, as thinks that it might be practical to far as soil goes is a lack of organic plant an orchard in a sweet clover field matter and nitrogen rather than a lack

#### Many Orchard Soils Acid.

A great deal of the orchard land in Michigan would be greatly benefited by an application of from two to five tons of finely ground limestone to the acre or its equivalent in marl. Not for In using the cultivation cover crop the direct results, but that the legumes system for young orchards we can cul- would grow better, it being very imtivate all the land until mid-summer, portant to have legumes grow well in and then sow a legume for a cover an orchard no matter what system is crop to be plowed down the following used. If mulching they are needed to spring, or we can cultivate only the mulch with; if using the cover crop tree rows, and sow a cover crop there and cultivation system they are needwhile we are growing hay or grain in ed to plow down to furnish organic

Personally the writer believes that strips in the tree rows, or we may when we have solved the problem of grow a cultivated crop in the spaces; maintaining the fertility of our soils each year cultivate the tree rows as we have solved the greatest problem we do the crop, then at the last culti- connected with the orchard business. vation sow a legume for a cover crop Soils are not what they once were, no to be plowed down the following matter whether they have been growspring; each year leaving more of the ing orchard or farm crops. The change land along the tree rows without a has been so very slow and gradual that it is hard for us to believe our The writer feels safe in saying that soils are constantly decreasing in ferthe advantages of either of these sys- tility, but such is the case as we are tems in the way of a better nitrogen forced to admit, when occasionally we and humus supply over the plain sod get a chance to see what a new soil, or system, or clean cultivation system practically new soil will do, as comwill more than offset the added cost of pared to what our old worn soils

#### Peaches Need Cultivation.

cure all the nitrogen and humus we The above was written with special need with legumes we still must sup- reference to apples, pears, plums and ply the mineral elements in some cherries. I have grave doubts as to form; for the average orchard soil in the advisability of attempting to grow Michigan is getting to be somewhat peaches commercially by any system depleted of the same.

Other than the cultivation and cover

### The Cooperatives

ORE than fifty Huron county farmers met at Bad Axe and took steps toward forming a cooperative mercantile association to operate a general retail store and conduct live stock selling for its members. The proposed capital is \$30,000 and the company will be incorporated when \$20,000 is subscribed. The subscriptions at this first meeting were \$4,900.

Consider Organization.

Farmers of Ionia, Kent and Montcalm counties met at Belding to discuss plans for forming a cooperative elevator company. Fred Thompson was elected chairman and Floyd Jenks secretary. The leading speaker from outside was George Miller, manager of the farmers' elevator at Chesaning. It is proposed to organize with \$40,000 capital to build an elevator at Belding and a committee of eight members was named to secure pledges for stock.

A Good Report.

The Central Barry Cooperative Shipping Association met at Hastings and elected the following officers: President, C. A. Woodruff; vice-president, Peter Kunz; secretary-treasurer, A. N. Williams; manager, C. J. Moore. Shipments for nine months beginning May 12, include 561 head of cattle, 594 calves, 3,745 hogs, 2,285 sheep and lambs and the net receipts for same were \$166,961.09. Orders for feed stuffs or fuel as listed by members are placed in carload lots.

Farmers and Business Men Meet.

Farmers in the vicinity of Belding, Ionia county, met with the business men of that city and after extended discussion voted to take the first steps toward establishing a farmers' cooperative market in Belding. A committee on organization was appointed, with Fred Thompson of the Belding Grange as chairman, and the following members: Thos. Bookey, Grattan Grange; Louis Jenks, West Otisco Farmers' Club; Clyde Beach, East Otisco Farmers' Club; Edward Woldridge, Orleans Farmers' Club; Ira Richmond, Smyrna Gleaners; H. S. Gardner, Fairview Farmers' Club; Ralp Hall, Grattan Gleaners; F. W. Belding, Shafter Harbor Gleaners; W. F. Sandell, Belding Board of Commerce.

A Big Season's Run.

The Conklin, Ottawa county, cooperative creamery, has closed the most successful year in its history, having paid out to farmers \$115,562.97, or \$44,-000 above the previous year. The annual dinner was well attended and officers and directors were reelected. C. J. Lazenby continues as manager.

The cooperative creamery at Litchfield, Hillsdale county, is a busy institution. A recent shipment was made of 289 tubs of butter, amounting to nearly \$10,000 for one and a half weeks..

Another New Association.

Farmers of Lincoln township, Osceola county, have formed the Lincoln Farmers' Cooperative Association, with the following officers: President, C. N. Fleming; vice-president, Michael O'Brien; secretary, L. E. Green; treasurer, James Pease. One of the early plans considered is to get rid of their potatoes at a fair price.

Doing Good Business.

The Shiawassee Cooperative Association met at Bancroft and elected the following officers: President, Em-Lewis; vice-president, B. D. Stephenson; secretary-treasurer, Jesse Alchin; manager, Fred Perry. Since September 1 stock has been shipped as follows: Five hundred and forty hogs; 73 calves, 111 cattle, 262 sheep and lambs. The association has a cash balance in the bank and is in a flourishing condition with about eighty-five members.

One must be economical in order to be liberal.—Voltaire.



# Speedy Haying and Finest Hay When Help is Scarce and Time is Short

HEN the haying rush comes on this season a good land this season, a good deal of hay money is going to be lost on many

farms - and saved on many other farms - in the short space of a few weeks. A very few days' delay, a rainy day or two, poor curing facilities, and hay values vanish like magic. Everything depends on haying machine preparedness. Will you be ready for haying?

Good hay is made in fast time with little help, year after year, on farms equipped with mowers, rakes, tedders, side delivery rakes, loaders, etc., sold by International Harvester dealers.

Champion, Deering, McCormick, Milwaukee and

Osborne Mowers, Dump Rakes and Tedders have been too long and favorably known on forty million acres of hayfield to need description. Every hay grower should become familiar with the

construction of the new International, Keystone and Osborne Combined Side Delivery Rake and Tedder. This popular, economical machine has two duties in

it can be instantly adjusted for rake or for tedder. It rakes clean, teds thoroughly, and handles hay gently, it is a left-hand-delivery rake, which means it can follow the mower closely and strike the heads first (not the stems). It does clean work, piling two swaths at once on the clean stubble (not on an unraked swath), which means proper curing. Quickly adjustable to any condition of hay and ground.

International, Keystone and Osborne Windrow Loaders are built to last. Pulled easily by two horses, they load uniformly, leave the field clean, lift hay over 10 feet, do not thresh off blossoms and leaves. with or without forecarriage and are released easily

from top of load. Hay values are high. These tools, which put hay under cover in prime condition four or five hours after cutting, return their price, and more, to your pocket. The International Harvester dealer can furnish you with proper sizes and types and special equipment. (The lines include also sweep rakes, stackers, and combined sweep rakes and stackers.) WARNING: This is a year of big demand for machines, scant supply and handicapped shipping. Act early and be certain. See the dealer—write to the address below for folders.



International Harvester Company of America

#### Win the War By Preparing the Land Sowing the Seed and Producing **Bigger Crops**

Work in Joint Effort the Soil of the U. S. and Canada---Co-operative Farming in Man Power Necessary to Win the Battle for Liberty

The Food Controllers of United States and Canada are asking for greater food production. Scarcely 100,000,000 bushels of wheat can be sent to the allies overseas before the crop harvest. Upon the efforts of the United States and Canada rest the burden of supply

Every Available Tillable Acre must Contribute; Every Available Farmer and Farm Hand must Assist.

Western Canada has an enormous acreage to be seeded but man power is short and an appeal to the United States allies is for more men for seeding operations.

Canada's Wheat Production last Year was 225,000,000 Bushels; the demand from Canada alone, for 1918, is 400,000,000 Bushels.

To secure this she must have assistance. She has the land but needs the men. The Government of the United States wants every man who can effec-States developed first of course; but it also wants to help Canada. Whenever we find a man we can spare to Canada's fields after ours are supplied, we want to direct him there. Apply to our Employment Service, and we will tell where you can best serve the combined interests.

Canada's be required Wages to competent help, \$50 a month and up, board and lodging.

Those who respond to this appeal will get a warm welcome, good wages, good board, and find comfortable homes. They will get a rate of one cent a mile from Canadian boundary points to destination and return. For particulars as to routes and places where employment may be had, apply to

U. S. Employment Service,

Dept. of Labor.

Detroit, Grand Rapids, Sault Ste. Marie and Port Huron, Mich.

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does not "lay down" on the job. A heavy engine for heavy duty. Successful because simple and built with nothing but work in view.

The Nichols-Shepard Oil-Gas Engine has never been a compromise. It is designed for work—any kind of work that a traction engine should do-and it does it.

It will plow, haul, thresh, or work with the belt with the ease and certainty of steam. It is ready for another job and not the repair shop when it gets through.

Two sizes-25-50 h. p., 35-70 h. p.

One kind-a Worker.

Uses gasoline, kerosene, naptha or distillate at all loads.

Nichols & Shepard Co. In Continuous Business Since 1848 Builders exclusively of Red River Spe-cial Threshers, Wind Stackers, Feeders, Steam and Oil-Gas Traction Engines **Battle Creek** Michigan

#### Milk News from the Field Secretary By R. C. REED

ditions that enter in to change the test ious proportions.

adhere to is the principle of receiving at the Chicago meeting to go to Washcompensation for the milk that is in ington to visit the food and war deaccordance with the ruling of the milk partments and see if it would not be commission and its appointed commit-possible to obtain a change of this rultees. Under no condition should the ing at the earliest possible date and milk producer allow the buyer to also to get two ounces of cheese incorchange this price. As you very well porated in every soldier's ration. From know, the amount designated for the the best available sources we are in association does not come out of the formed that there are about one milprice which you were to receive for lion American soldiers in France at your milk. You receive for your pay the present time. Could these soldiers the scheduled price for milk-the asso- each have two ounces of cheese it ciation for its work receives one cent would require one hundred and twentyper hundred pounds for its pay.

Be Cautious.

are attempting to organize stock com- be readily understood how vital this is panies and buy the milk from cows of -not only to the dairy industry but certain individuals-if these individu- also to the well being of our soldier als will pay for a certain amount of boys who are fighting our battles. stock for each cow from which they expect to sell milk. Wherever a prop- In most places in Michigan cheese is deal of this kind.

The Condensed Milk Situation.

lack of transportation facilities there of these vital food products.

A RRANGEMENTS have been made is today in the United States more whereby the Dairy and Food De- than thirty million cases of condensed partment of the state are to put milk. This would not be a serious quesa tester in the field, hoping to avoid tion if the way was open for immediate the annoyances that are so frequent shipment; but inasmuch as the opporbetween the buyer and seller of milk. tunities for shipment are to be less in Our people must be fair in this propo- the near future than they have been sition and study to know all the con- in the past, this question assumes ser-

Seeking Relief.

Another thing that we must stoutly A committee of three was appointed five thousand pounds of cheese a day to supply them and as this is the best In many states there are men who animal food nutrient available it can

Profiteering on Cheese.

osition of this kind is made in your retailing at the present time from community we urge upon every milk thirty-six to forty-four cents a pound, producer to investigate thoroughly be- while the wholesale market price for fore he puts his \$10 per cow into a cheese today is twenty-one cents. Everything should be done that can be done in the near future to change this In our meeting at Chicago last week method of profiteering and, if possible, it was found that on account of the to cause the people to consume more

# Package Grape Nuts teaches food conservation. Saves FUEL SUGAR TIME WHEAT AND WASTE SOLD BY GROCERS.

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You can churn in a few minutes with the Leader, stop butter waste and do away forever with the old-fashioned back breaking churn. Over 15,000 Leader owners are getting more and better butter in a third the time, and making churning day a pleasure—saves money, time and labor every day.

Made of highest quality material—simple construction—nothing to get out of order—no hoops to fall off—no barrel to foul and sour—no iron bearings to make black grease—mest durable and easiest running thurn made. Pays for itself many times each season; will last a lifetime with proper care.

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of the Michigan Milk Producers' Asso- upon an economically sound basis. ciation following the recent announceof Michigan milk producers.

NUMBER of readers have won- in his enthusiasm for, and devotion to, dered why more has not been the great task before him-the task of heard from the Field Secretary placing the dairy industry of Michigan

We are glad to announce that he is ment in these columns that regular now rapidly recovering and has been communications from him would ap- able to submit the above notes to keep pear. The reason is that Mr. Reed has our dairymen in touch with the latest recently been obliged to undergo a changes in the marketing of dairy prorather serious operation, due to the ducts. We bespeak for Mr. Reed the over-taxing of his energy in the service fullest cooperation of every milk producer and every local milk producers' Mr. Reed has a real mission to per- association of the state to the end that form in carrying out a program for the Michigan dairymen will receive and give justice and that she will enter ere long into that deserved position, the leading commonwealth in the produc-

tion of dairy products.

HOW FARMERS CAN GET FLOUR.

(Continued from page 548). ers are required to conform to the Food Administration's statement of March 24, asking all persons to cut their consumption of wheat flour by fifty per cent and limiting the amount of the sale for exchange to a monthly

No wheat miller is allowed to deliver flour without an equivalent amount of substitutes in exchange for wheat until the customer gives him a written statement which the miller has reasonable cause to believe to be true. The form

......1918. ..... hereby dairy industry of the state, tht is quite certify that the wheat this day deliv-

monwealths to follow. Our field secretion the next thirty days, and that I will not sell, lend or deliver such flour to anyone, nor permit such flour to be putting not only his heart and soul into the work but also reserve strength consumption in my household or estab-

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basis of six pounds for each person.

of the statement follows:

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Field Secretary R. C. Reed.

unique. This program is getting the delivered by me to the mill of...... secured in any other state of the union—even in those states where drastic measures have been employed. The
final success of his undertaking will
likely set the standard for sister commy household or establishment during
the next thirty days, and that I will which the most of us feel that society lishment. has no right to call upon us for. He has forgotten his own physical comfort



writing to advertisers please mention The Michigan Farmer.

# Freshening the Cows

By CHAS. E. RICHARDSON

the stable of a farmer friend the calf, develop. who lived about a mile or so

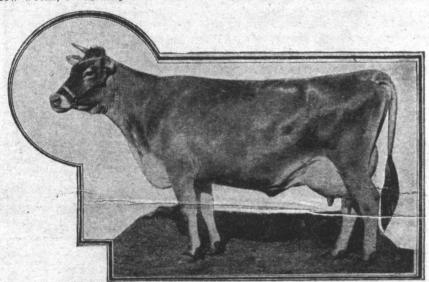
freshening time that it might pay?"

ting only hay, the one that he had told two weeks after. me he expected would have a calf in a

SHORT while ago I went into gans which makes a tendency to lose

When the time draws near for the from me. He was just feeding his cow to have the calf, she should be cows. I noticed that he measured out placed in a separate pen or box stall, the grain ration for the different ones large enough so that she can move and also gave each one the hay that around easily. The bowels should be was needed. There was one cow that kept free by the use of laxative feeds. only received hay for her fed. I asked Roots are valuable. A good feed for a him why he did not give her any grain, cow some time before and after she "Oh! That one, why she is dry. I has her calf, is whole oats that have expect that she'll 'come in' in about a been swelled by having boiling water month or so. After one of my cows poured over them. Three pounds of stop giving any milk, I do not give these, three pounds of bran, and one-them any more grain," he told me. half pound of linseed oil meal mixed "But, in her case," I asked him, with warm water and a little salt, "don't you think that she is so near makes a good feed and has the tendency to prevent the retaining of the "I do not see where there'd be any afterbirth. Of course, hay is to be giv-profit," he answered. "How can any en. After calving give this feed for a cow that is dry be worth giving any- week or so, increasing one-half a pound thing but hay to?" And he laughed as a day as the cow increases in her milk he thought that it was quite a joke to flow, and gradually change to the regfeed anything but hay to his cows that ular ration. For at least ten days before the cow calves she should have As I looked at the cow that was get- water with the chill taken off; also for

While, as a rule, cows have their few weeks, I was surprised. She was calves born without much trouble, they



The Dairy Cow Responds to Wise Handling at the Freshening Period.

very thin. To look at her I would not should be watched carefully as the have known that she was to freshen time draws near, and if there are any soon. I felt that the joke was really signs of difficulty, help should be goton him. I know that there are quite a ten quickly, if it is to be of use. After few farmers that feel as he does. They the calf is born the danger from milkdo not think that a cow that is not fever should be guarded. While per-

to be drawn upon to help at the time tions come with every outfit. that she is to make the largest quantity of milk.

ing, before they have their calf.

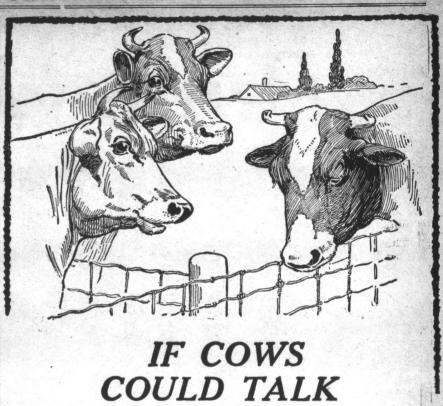
violent exercise or conditions which develop as much as possible. might lead to slipping or jumping is should be free from ice and be even twelve years old. brought to bear on the generative or- come to her as soon as she freshens.

giving any milk needs much to eat. haps it may not be necessary for every But a cow that is to have her calf farm to have a milk-fever outfit, there ought to be fed quite liberal. While ought to be one at least in every neighshe is not giving milk perhaps, she is borhood and every farmer that has using feed to grow the new calf to be many cows should understand how to born soon. She needs food to bring use it. It is very simple; in fact, many her into moderately high condition, times a common bicycle-pump with a without too much fatness. Excessive small tube attached to it that is small fat is apt to make difficulty at time of enough to be inserted into a cow's teat, calving. But if the cow has a liberal has been successfully used. After fillquantity of it with good flesh, she is ing with air, the teat is tied with ready to start immediately to make a strips of cloth to hold it in for an hour large quantity of milk. Fat that has or so, and the process repeated, until been stored up, is ready as a reserve recovery takes place. Particular direc-

The capacity to give milk is developed in cows by breeding early. While While there are farmers that do not a heifer is not fully grown at two years dry off their cows for any length of of age, it seems to be the rule among time before they freshen, most farmers most breeders that that is about the agree that ows should have from six right age for a heifer to have her first weeks to two months rest from milk- calf, providing she is in no way stunted in her growth. To fix the habit of Cows should have exercise in moder- persistent milking, a cow is not bred ation during pregnancy, as with these so that her second calf comes within a that are kept in too close confinement, year and a half. Of course, the best of there is sometimes difficulty during care at this time is requisite so that calving time. Of course, too much and the future cow may have a chance to

While cows are bred until they are bad, as such may cause abortion. Cow twenty years old sometimes, the best yards where they get their exercise period is from four to five or six, up to

and smooth. Cows that are kept in the . To get the best from any cow, good stable a large part of the time should care is important at all times, and even have the platform or floor under them though she is not giving milk, she level; floors that slope towards the should have a properly balanced ration rear cause an upnatural pressure to be to prepare her for the work that is to



"Good-morning, Mrs. Fawncoat. I hear that all the cows in the county are joining the 'Win-the-War' Club."

"Yes, Mrs. Starface; Secretary of Agriculture Houston says we must increase the production of butter-fat, and we cows have all promised to do our 'bit.'

"There's one thing I want to say right now," spoke up Mrs. Black. "The farmers have got to back us up in this movement. I'm with the rest of you, heart and soul, but what chance have I got?"

"Why, Mrs. Black, what's the matter? You have a fine warm barn and plenty to eat and drink.'

"Yes, I know; but what can I do as long as they use that old cream separator on the place? It never was any good any way, and now it wastes so much cream I'm just plain discouraged."

Well, you're not so badly off as some cows, where they haven't any cream separator at all."

"I don't know about that. There's a lot of cream separators in this county that are only 'excuses'-not much better than none at all. I tell you, Mrs. Fawncoat, with butter at present prices and the people at Washington begging everyone to save fat, it's almost a crime to waste butter-fat the way some of these farmers do.'

"That's one thing I'm thankful for," said Mrs. Fawncoat; "there's no cream wasted on this farm. We have a De Laval Cream Separator and everybody knows that the De Laval is the closest skimming machine.

"Well," said Mrs. Starface, "we never used a De Laval on our place until last fall, and supposed one separator was about as good as another; but, honest, the De Laval is the first cream separator we've ever had that gave us cows a square deal.'

Of course your cows can't talk-but if they could you'd never have a moment's peace until you got a De Laval Cream Separator.

Remember that a De Laval may be bought for cash, or on such liberal terms as to save its own cost. See the local De Laval agent, or if you don't know him write to the nearest De Laval office as below.

THE DELAVAL SEPARATOR CO. 165 Broadway, New York 29 E. Madison St., Chicago

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Cutters makes it absolutely impossible to clog throat or blower, no
matter how fast the corn is thrown in. Gehl Cutters are strong, powerful, safe,
economical—that's why the demand for Gehl Cutters grows bigger every year.

Gehl Cutters have positive safety device, best knife adjustment, strongest built all steel frame and other valuable features not found in others. Some of the seven sizes of Gehl Cutters can be run by a 4 h. p. gasoline engine. In addition, any recent model of the Gehl Cutter can use the

#### Gehl Alfalfa Attachment

To get best results infeeding alfalfa it should be cut into meal—not shredded or crushed or ground in an ordinary feed mill. By using a simple attachment, which fits any recent model of the Silberzahn or Gehl Ensilage Cutter, you can make alfalfa meal right, at great capacity and at little cost. You can produce a better quality of meal than with any other alfalfa cutter. By getting this attachment you have two cutters for the price of one.

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Vacuum Cup Tires mean longest wear, greatest service, actual economy.

They are guaranteed—per warranty tag attached to each casing—for

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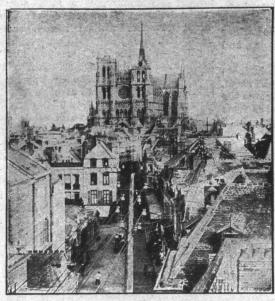
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The FARM BOY
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SCIENTIFIC and
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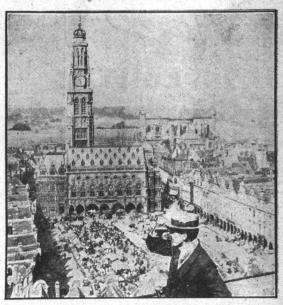
# WORLD EVENTS IN PICTURES



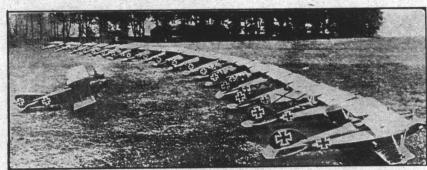
Panoramic view of Amiens, great railroad center, objective of German drive. In the background is the famous Amiens cathedral.



High on the sides of the mountains the Italians have built these unusual shelters which are used for observation purposes.



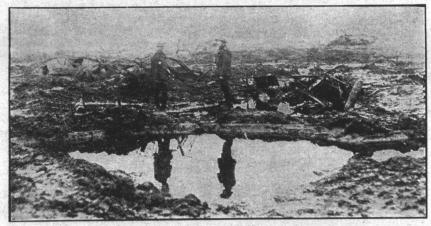
Market Square and town hall in the city of Arras. The Allies anticipate a German drive here following their advance in the north.



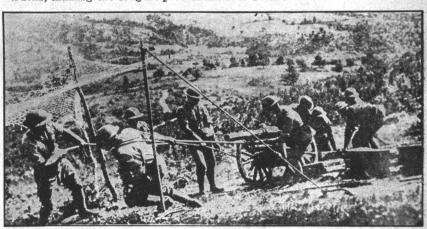
This photograph of a group of German monoplanes was found on a German aviator who was made a prisoner. The United States must speed up the building of air craft to compete with the enemy machines.



Three mile line of army motor trucks making its way through New York-City enroute to government piers. There were more than 150 of these trucks, making the longest procession ever seen there.



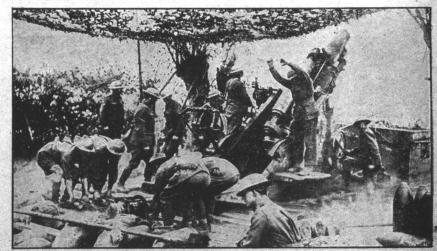
When enemy shells make the tanks unfit for active use, some are left apparently abandoned on the field, but are used by the Tommies as advance observation posts to watch the enemy. (British Official Photo).



This gun, one of the lighter types, requires the efforts of nine American soldiers to wheel it into position. The gun position will be safe from detection by a netting screen of camouflage.



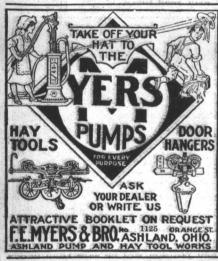
British soldiers who have gone to the assistance of Italy quickly become friends with the Italian children, who are here shown entertaining their Allies at a party. (British Official Photo).



An Australian howitzer under a camouflage screen that conceals the gun from enemy aeroplanes. Four men are needed to handle the shell in loading. (Australian Official Photo).









# nside the Lines

By EARL DERR BIGGERS & ROBERT WELLES RITCHIE

Copyright by The Bobbs-Merrill Co.

fallen into a chair by the far edge of upon their raw souls. the desk, had her head buried in her arms, and was sobbing.

they hear his name? What-"

blotched and purple.

eral-what the English army has done. "Who is it?" An old score, General—thirty years old. My father-he was a prince in Indiatonight shall see it paid!"

The man's eyes were glittering his face apoplectic. points of white-hot steel. All of his thin white teeth showed like a hound's.

ged his head at the Indian.

step-step-step. the tower, my General. And Major people." Bishop-where is he? Ah, a knife is swift and makes no noise-

"What a fool I've been!" Crandall rocked in his chair and passed a the combination." trembling hand before his eyes. Sudacross the desk. "Your man-the man hand and passed it to Woodhouse. of you go to the cells until I sift this you protected-it is he who goes to the signal tower ,girl!"

between the rackings of her throat.

you he was playing with you-using blasts. you for his own rotten ends-using you to help kill forty thousand men!"

It needed not the sledge-hammer the doorway. blows of the stricken Crandall to batter Jane Gerson's heart. She had read manded. too clearly the full story that Jaimihr Khan's sketchy comments had outlin- shrieked: ed She knew now Captain Woodhouse spy. The Indian was talking again, unbeliever!"

The general writhed in agony. Jane, his words dropping as molten metal

"Forty thousand men! A pleasant thought, my General. Eight minutes "And we are going to think, my Gen- up the Rock to the tower when one eral," the Indian's voice purled on moves fast. And my friend-ah, he "While we wait we shall think. Who moves veree—veree fast. Eight min. on the shoulder and put her aside with will General Crandall be after tonight utes, and four have already passed. the English sahib who ruled the Watch the windows-the windows look-Rock the night the English fleet was ing out to the bay, General and Sahiblown to hell from inside the fortress? bah. They will flame—like blood. Your How many widows will curse when hearts will stop at the great noise, and then-"

"Jaimihr Khan, what have I ever A knock sounded at the double doors done to you!" The governor's voice behind Jaimihr. He stopped short, sounded hardly human. His face was startled. All listened. Again came the knock. Without turning his eyes from "Not what you have done, my Gen- the two he guarded, Jaimihr asked:

"Woodhouse," came the answer.

Jane's heart stopped. Crandall sat throne to give it to a lying brother. key in the lock ,and the doors opened. The army-the English army-mur- In stepped Captain Woodhouse, helmetdered my father when he tried to get ed, armed with sword and revolver at it back-called it mutiny. Ah, yes, an waist. He stood facing the trio, his old score; but by the breath of Allah, swift eye taking in the situation at once. Crandall half rose from his seat,

"Spy! Secret killer of men-" he said. Woodhouse paid no heed to him, but "You dog!" The general feebly wag- turned to Jaimihr.

"Quick! The combination," he said. "Your dog, my General. Five years "Over the phone-afraid I might not your dog, when I might have been a have it right-stopped here on my way prince. My friend goes up the Rock- to the tower-be there in less than Closer-closer to three minutes if you can hold these

"Everything is all right?" Jaimihr asked suspiciously.

"You mean Bishop? Yes. Quick

Jaimihr picked the slip of paper den rage turned his bloodshot eyes to containing the formula from the edge where the girl was stretched, sobbing, of the desk with his disengaged left

The latter stretched out his hand, grasped the Indian's with a lightning move, and threw it over so that the lat-"No-no, it can't be," she whispered ter was off his balance. In a twinkling Woodhouse's left hand had wrenched "It is! Only a member of the signal the revolver from Jaimihr's right hand service could gain admittance into the and pinioned it behind his back. The tower tonight. Besides-who was it whole movement was accomplished in went with Bishop down the Rock after half a breath. Jaimihr Khan knelt in the dinner tonight? And I-I sent agony, and in peril of a broken wrist, Bishop with him-sent him to his at the white man's feet, disarmed and death. He was tricking you all the harmless. Woodhouse put a silver time. I told you he was. I warned whistle to his lips and blew three short

A tramp of feet in the hallway outside, and four soldiers with guns filled

"Take this man(" Woodhouse com-

The Indian, in a frenzy , writhed and

"Traitor! English spy! Dog of an

The soldiers jerked him to his feet and dragged him out; his ravings died away in the passage.

A high-pitched scream sounded behind Lady Crandall's door ,and a pounding on the panels. Jane Gerson, first to recover from the shock of surprise, ran to unlock the door. Lady Crandall in a dressing gown, burst into the library and flung herself on her hus-

"George-George! What does all this mean-yells-whistling-'

General Crandall gave his wife a pat a mechanical gesture. He took a step toward Woodhouse, who still stood stiffly before the opened doors; the dazed governor walked like a somnambulist.

"Who-who the devil are you, sir?" he managed to splutter.

Woodhouse brought his hand up in a salute as he faced General Crandall.

"I am Captain Cavendish, General." Again the hand came to stiff salute on the visor of the pith helmet. "Captain Cavendish, of the signal service, stationed at Khartum, but lately detached until this English army took away his frozen in his seat. Jaimihr turned the for special service under the intelligence office in Downing Street."

"The other spy, Almer, of the Hotel Splendide, has just been arrested, sir. Major Bishop has taken charge of him and has lodged him in the cells."

The man's eyes jumped for an instant to Jane Gerson's face-found a smile breaking through the lines of doubt there.

"Your papers to prove your identity" Crandall demanded, still in a fog of bewilderment.

"I haven't any, General Crandall," the other replied, with a faint smile, "or your Indian, Jaimihr Khan, would have placed them in your hands after the search of my room yesterday. I've convinced Major Bishop of my genuineness, however-after we left your house and when the moment for action arrived. A cable to Sir Ludlow-Service, in the Downing Street office, will confirm my story. Meanwhile I am willing to go under arrest if you think best."

"But-but I don't understand, Captain-er-Cavendish. You posed as a German-as an Englishman.'

"Briefly, General, a girl secretly in the pay of the Downing Street office-Louisa Schmidt-Josepha, the cigar girl, whom you ordered locked up a few hours ago-is the English representative in the Wilhelmstrasse at Berlin. She learned of a plan to get a German spy in your signal tower a month before war was declared, reported it to London, and I was summoned from Khartum to London to play the part of the German spy. At Berlin, where she had gone from your own town of Gibraltar to meet me, she arranged to procure me a number in the Wilhelmstrasse through the agency of a dupe named Capper-"

Good Lord!" Crandall "Capper! stammered.

"With the number I hurried to Alexandria. Woodhouse-Captain Woodhouse, from Wady Halfa-a victim. poor chap, to the necessities of our plan, fell into the hands of the Wilhelmstrasse men there, and I gained possession of his papers. The Germans started him in a robber caravan of Bedouins for the desert, but I provided against his getting far before being rescued, and the German agents there were all rounded up the day I sailed as Woodhouse."

"And you came here to save Gibraltar and the fleet from German spies?" Crandall put the question dazedly.

"There were only two, General-Almer and your servant, Jaimihr. We have them now. You may order the release of Louisa Schmidt."

"The captain has overlooked one other-the most dangerous one of all, General Crandall." Jane stepped up to where the governor stood and threw back her hands with an air of submission. "Her name is Jane Gerson, of

#### "The Flying Fighter"



An American Aviator Over the Lines in France. (Story starts May 11).

New York, and she knew all along that this gentleman was deceiving you-she had met him, in fact, three weeks before on a railroad train in France."

The startled eyes of Gibraltar's master looked first at the set features of the man, then to the girl's flushed face. Little lines of humor crinkled about the corners of his mouth.

"Captain Cavendish-or Woodhouse, make this girl your prisoner!"

## CHAPTER XIX.

IVE o'clock at the quay, and already the new day was being made raucous by the bustle of departure—shouts of porters, tenders' jangling engine bells, thump of trunks dropped down skidways, lamentations of voyagers vainly hunting baggage mislaid. Out in the stream the Saxonia-a clean, white ship, veritable ark of refuge for pious Americans escaping the deluge.

In the midst of a group of his countrymen Henry J. Sherman stood, feet wide apart and straw hat cocked back over his bald spot. He was narrating the breathless incidents of the night's dark hour:

"Yes, sir, a soldier comes to our rooms about three-thirty o'clock and hammers on our door. 'Everybody in this hotel's under arrest,' he says. 'Kindly dress as soon as possible and report to Major Bishop in the office.' And we not five hours before the guests of General and Lady Crandall at Government House. What d'you think of that for a quick change?

"Well, gentlemen, we piled downstairs-with me minus a collar button and havin' to hold my collar down behind with my hand. And what do we find? This chap, Almer, with a face like a side of cream cheese, standing in the middle of a bunch of soldiers with guns; another bunch of soldiers surroundin' his Arab boy, who's as innocent a little fellah as ever you set eyes on; and this Major Bishop walkin' up and down, all excited, and sayin' something about somebody's scheme to blow up the whole fleet out there. Which might have been done, he says, if it wasn't for that fellah Woodhouse we'd had dinner with just that very evening.

"Who's some sort of a spy. I knew it all the time, you see." Mrs. Sherman was quick to claim her share of her fellow tourists' attention. he's a British spy set to watch the Germans. Major Bishop told me that in confidence after it was all oversaid he'd never met a man with the nerve this Captain Woodhouse has."

"Better whisper that word 'spy' soft," Henry J. admonished sotto voce. "We're not out of this plagued Europe yet, and we've had about all the excitement we can stand; don't want anybody to arrest us again just the minute we're sailin'. But, as I was sayin', there we all stood, foolish as goats, until in comes General Crandall, followed by this Woodhouse chap. 'Excuse me, people, for causing you this little inconvenience,' the general says. 'Major Bishop has taken his orders too literal. If you'll go back to your rooms and finish dressin' I'll have the army bus down here to take you to the quay. The Hotel Splendide's accommodations have been slightly disarranged by the arrest of its worthy proprietor.' So back we go, and-by cricky, mother, here comes the general and Mrs. Crandall now!"

Henry J. broke through the ring of passengers; and with a waving of his hat, rushed to the curb. A limousine bearing the governor, his lady and Jane Gerson, and with two bulky hampers strapped to the baggage rack behind, was just drawing up.

"Why, of course, we're down here to see you off-and bid you Godspeed to little old Kewanee!" Lady Crandall was quick to anticipate the Shermans' greetings. General Crandall, (Continued on page 559).

# **Tractor Power Needs Special** Tractor Tools

The efficiency of your tractor is dependent upon the good work of the tools used behind it.

This special engine disc has been designed and worked out in every detail with the advice and assistance of the manufacturers of the leading light tractors to insure to the tractor user the greatest advantage from his power.

# Roderick Lean

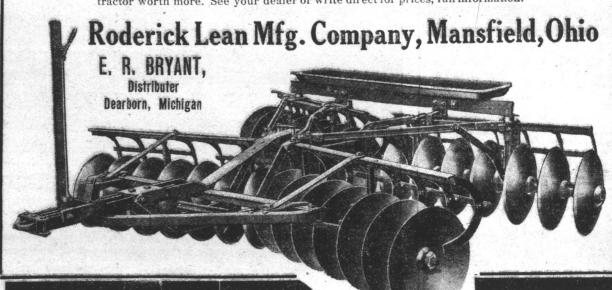
# Light Automatic Engine Disc

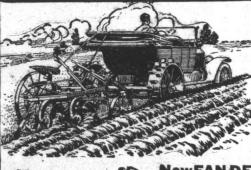
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we have perfected table, sure relief from hernia in the Brooks Appliance. Endorsed by thousands of physicians. Sent on trial to prove its worth. Made to your measure, Durable—cheap.

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Bull, helter, hogs, poultry, mower, rake, plow, harrow, cultivator, potato digger, wagon, carriage, harnesses, hand tools, etc., etc., included by ivalid owner if taken quickly. Mail delivered, convenient to school and milk station. 75 acres tillage, 100 acres wire-fenced pasture, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 ft. saw timber, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 cords wood and 50,000 ft. saw timber, estimated 2000 cross wood and 50,000

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

O. K. HAWLEY. Baldwin, Wisconsin

# The Carrier Pigeon, a Bird of War By E. I. FARRINGTON

for pigeons the beleaguered citizens of many races are flown each year. ing news to the people.

Armies which long ago disbanded their misleading information. pigeon service are now trying to acyeoman service and that more were though the latter are moved a distance them.

obey this order if they could avoid do- untimely death. It is a fortunate thing that the car- ing so. Hundreds of pigeons were con- Although called carrier pigeons. rier pigeon did not become extinct af- cealed, only to be liberated from time abroad, the bird used by the army is ter it had been supplanted by the Marto time when occasion offered. They not the carrier as known in this counconi invention, for the present war has revealed to the English and French the try. Our carriers are bred solely for demonstrated that pigeons can be de- truth about affairs in Belgium when exhibition purposes and can fly only a pended upon when the wireless fails. the Germans were giving out wholly short distance. The message carrying

W HEN the wireless telegraph was owned stock which came from England to mind the shock of smoke and battle.

There is much to mind the shock of smoke and battle. invented everybody supposed or Belgian strains. There is much At least they are not confused, but fly that the day of the carrier pig- more interest in racing pigeons among from the trenches straight back to eon had passed. Up to that time pig- Americans than is commonly realized, their home lofts. So important has eons had had a prominent place in war Two National Associations have been this service become that German sharpas well as in peace. If it had not been in existence for several years and can reach with a bullet. A pigeon on shooters have now been given the task Paris would have been unable to com- The Germans have not been promi- of bringing down every pigeon they municate with the outside world during nent in the breeding of racing pigeons, the wing flying at the rate of a mile a the long siege to which that city was but when the war broke out they real- minute is a difficult object to hit, howsubjected. When steamships first be- ized the value of the birds which the ever, and most of them escape. Forgan to ply the ocean, carrier pigeons Belgians possessed. Among their first merly there was considerable loss from were released when the vessels were orders as they passed through the rav- the gas which the germans occasiona few hundred miles from land, and aged territory of the Belgians was ally sent floating over the trenchesquickly brought home advance inforthat all pigeons and firearms should Now, however, a cage with a special mation for the use of public officials immediately be delivered up. Of course gas protector has been invented so and business men, as well as supply- the intrepid Belgian people did not that the pigeons are saved from this

birds are really homing pigeons simi-With the Belgian, French and Eng- lar to the homers used for squabcumulate all the available birds that lish stock to draw upon a veritable breeding, but trained for flying. This can be found. This is especially true pigeon army has been quartered back training must begin when the birds are of the army in this country. Twenty of the fighting lines. The birds are only five or six weeks old. First of all years ago we had the beginnings of a housed in portable lofts, the roofs of it is necessary to get them "settled" pigeon service, but for a long time which are painted in bright colors to the loft which they are to occupy. there had not been a pigeon loft with which can be seen a long distance. It That is, they must become accustomed in an army post until the news came has been found that the pigeons will to returning there. Whatever loft they from France that pigeons were doing find their way back to these lofts even are settled in will remain home to

There is no reason why any farmer's boy should not breed homing pigeons successfully. Any boy who has a good strain of birds now can make money selling them to the government. It is important, though, to have pedigreed stock, and to be a member of some homing pigeon association. Probably the interest in homers will continue to grow so that birds will be in demand for many years. Perhaps the raising of pigeons will come to be as common a sport in this country as it formerly was across the sea.

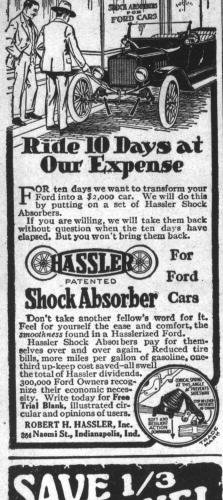
#### AN OLD-TIME PRACTICE.

Many a thoughtless observer of the ships that enter and leave ports at present will get the impression that camouflage (deceit) in war developed primarily to meet the ruthless U-boat campaign, but readers of history know that even the American Indians, half savages as they were, were familiar with resources in deceiving their enemies, by covering their bodies with branches and using the skins of animals for concealment. It is also on record that in a campaign between the Spaniards Moors (Moslems) and (Christians) in the fifteenth century in and stations throughout the country, carries with him a number of pigeons Andalusia the walls of a Spanish city were destroyed due to a freak in their construction.

In order to deceive Moorish scouts in the vicinity, the Spanish commandant immediately set all of his troops and the town's people to work constructing scenery walls and battlements, conning towers and all. They used cloth painted to resemble stone, eons have been shipped to France, but this simple plan is being generally frames, with the result that, although the experiment was not very success- adopted. The use of pigeons makes it the Macrish traces of the pige the birds received to resemble stone, and and mounted the canvas on wooden frames, with the result that, although the birds received to resemble stone, and and mounted the canvas on wooden frames, with the result that, although the birds received to resemble stone, and and mounted the canvas on wooden frames, with the result that, although the birds received to resemble stone, and and mounted the canvas on wooden frames, with the result that, although the birds received to receive the pige of the canvas on the control of the canvas on the canvas o them they were deceived by the ruse. Solomon truly said, "There is nothing new under the sun," and he might have added, because human nature never changes.

#### APRIL.

BY M. A. CROMLICH.



with this Pipeless Furnace TT kept thousands of homes warm last winter. Exclusive features of construction make it the only furnace which fully incorpo-rates the correct principles of pipeless

heating. Heats entire house from one register, providing constant circulation of warm, moist air through every room. Better health, solid comfort, safety and economy will be yours with the

Quickly installed in any home, old or new, with ar without cellar. No waste heat, does not heat cellar and spoil fruits or vegetables. Burns hard or soft coal, coke or wood. Sold under binding guarantee. Write for free booklet "Heating Your Home" and name of nearest Mueller dealer.

.J. Mueller Furnace Co. Makers of Heating Systems of All Kinds Since 1857.



can I grow more crops with expense? How can I cultivate es and have cleaner fields? IRON AGE Riding will help you do this. Has pivot wheels and gangs with parallel motion. Adjustable to any width frow. Every tooth can be raised, lowered or turned to right or left. Lever adjusts balance of frame to weight of driver. Light, strong and compact—the latest and best of light conditionary. potato nachinery, garden tools, etc. Write us to-day for free booklet. Bateman M'f'g Co., Box 24D , Grenloch, N.J.





A Pigeon Loft Showing the Trap for Training the Birds.

needed. Now an elaborate pigeon ser- of forty or fifty miles. vice is being built up with a loft for When an aviator scout flies over the seventy-five birds at forty cantonments enemies' lines seeking information he Recruiting officers of the pigeon corps which are released one by one. Before have established headquarters in var- each pigeon flies away, however, a ious cities and are paying two dollars short message is written on a piece of each for all the suitable young birds rice paper and the paper attached to brought in. Scores of experienced pig- the bird's leg by means of a rubber eon fanciers are being enlisted to man- band. It is the common practice to age the lofts, and train soldiers in use a little aluminum case to hold the handling the pigeons. It is expected message, but the French fliers have that twenty thousand birds will be on found that the message is carried just ful, as by the time the birds reached unnecessary for the flier to return for that country they were too old to be several hours. properly trained. Now all the pigeons Pigeons are also being used to carry

There are many associations of facing course is not entirely to the place of the pigeon keepers in England, too, and vice, which seldom fails. It has been some in France. It is generally admitestimated that ninety-seven per cent estimated that ninety-seven per cent estimated that ninety-seven per cent estimated that ninety-seven per cent with grain greating through the sum of the set in at entirely to the place of the sum of the sum of the pigeon keepers in England, too, and vice, which seldom fails. It has been a glorious rainbow, That spans the heaven's blue; with grass blades all a-glitter, where little raindrops cling, through the pigeon keepers in England, too, and vice, which seldom fails. It has been a glorious rainbow, That spans the heaven's blue; with grass blades all a-glitter, where little raindrops cling, Then Mother Earth looks radiant with pretty flowers of spring.

collected are being used for breeders, information from ships at sea to the The youngsters will be taken across land. It is in carrying reports from the water as needed, but a permanent the front to the rear of the fighting pigeon corps will be built up here. line, however, that they are most valu-As it happened, the raising of pig- able. Wireless apparatus is often diseons is the national sport of Belgium. mantled and telephones broken down It corresponds to baseball in America. in the course of a battle. Then re-It corresponds to baseball in America. in the course of a battle. Then re-There are many associations of racing course is had entirely to the pigeon ser-With sunbeams gleaming through,

Mention the Michigan Farmer when writing Advertisers successful fanciers of this country tive little creatures, they do not seem

#### INSIDE THE LINES

(Continued from page 557). beaming indulgently on the group of homegoers, had a hand for each.

"Yes—yes," he exclaimed. "After arresting you at three o'clock we're here to give you a clean ticket at five. Couldn't do more than that—what? Regrettable occurrence and all that, but give you something to tell the stay-athomes about when you get back to—

"Kewanee ,Illynoy, General," Sherman was quick to supply. "No town like it this side the pearly gates."

"No doubt of it, Sherman," Crandall heartly agreed. "A quiet place, I'll wager. Think I'd relish a touch of your Kewanee after—ah—life on Gibraltar."

Jane Gerson, who had been standing in the car, anxiously scanning the milling crowd about the landing stage, caught sight of a white helmet and khaki-clad shoulders pushing through the nearer fringes of travelers. She slipped out of the limousine unseen, and waited for the white helmet to be doffed before her.

"I was afraid maybe—" the girl began her cheeks suddenly flaming.

"Afraid that, after all, it wasn't true?" the man she had found in war's vortex finished, his gray eyes compelling hers to tell him their whole message. "Afraid that Gaptain Cavendish might be as vile a deceiver as Woodhouse? Does Cavendish have to prove himself all over again, little girl?"

"No—no!" Her hands fluttered into his, and her lips were parted in a smile. "It's Captain Woodhouse I want to know—always; the man whose pledged word I held to."

"It must have been—hard," he murmured. "But you were splendid—splendid!"

"No, I was not." Tears came to dim her eyes, and the hands he held trembled. "Once—in one terrible moment this morning—when Jaimihr told us you were going to the signal tower when we waited—waited to hear that awful noise, my faith failed me. I thought you—"

"Forget that moment, Jane, dearest.

A saint would have denied faith then."
They were silent for a minute, their hearts quailing before the imminent

separation. He spoke:

"Go back to the states now; go back and show this Hildebrand person that you're a wonder—a prize. Show him what I've known more and more surely every moment since that meeting in Calais. But give him fair warning; he's going to lose you."

"Lose me?" she echoed.

"Inevitably. Listen, girl! In a year my term of service is up, and if the war's over I shall leave the army, come to the states to you, and—and—do you think I could become a good American?"

"If you have the proper teacher," the girl answered, with a flash of mischief.

"All aboard for the Saxonia!" It was Consul Reynolds, fussed, perspiring, who bustled up to where the Shermans were chatting with Lady Crandall and the general. Reynold's sharp eye caught an intimate tableau on the other side of the auto. "And that means you Miss Step-lively New York," he shouted, "much as I hate to—ah—interrupt."

Jane Gerson saw her two precious hampers stemming a way through the crowd on the backs of porters, bound for the tender's deck. She could not let them out of her sight.

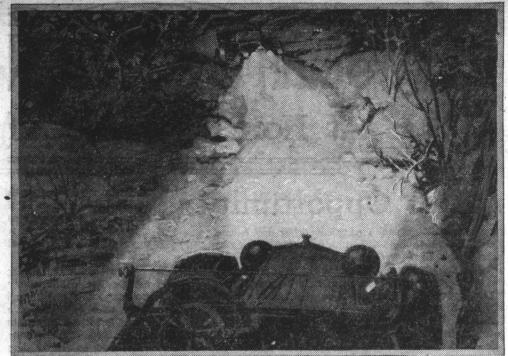
"Wait, Jane!" His hands were on her arms, and he would not let her go. "Will you be my teacher? I want no other."

"My terms are high." She tried to smile, though trembling lips belied her.

"I'd pay with my life," he whispered in a quick gust of passion. "Here's my promises—"

He took her in his arms, and between them passed the world-old pledge of man and girl.

THE END.



Photograph by L. A. Hiller

# Kills all glare—Legal everywhere Gives you 500 ft. range

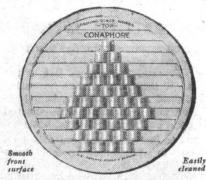
BOTH these cars are equipped with Noviol (yellow-tint) Conaphores — legal everywhere. The photograph shows them as they meet at a dangerous turn on a dark country road.

The instant a driver sees the yellow-tint Noviol lights he knows that they will not blind him—and feels perfectly safe. The soft mellow light is easy on his eyes and helps him to see past the oncoming car.

Kills all glare. The Conaphore uses all the light, but patented corrugations control it within legal limits. Height of beam is not more than 42 inches from the road.

Range 500 feet. Corrugations throw a shaft of strong driving light 500 feet ahead of the car.

Ample side light. Cylinders fan strong rays out over the road-side. Light spreads 25 feet at each side of the car 75 feet ahead.



Manufactured by the World's Largest

# Makers of Technical Glass ONAPHORE

Range 500 feet - No Glare - Pierces Fog and Dust Pierces fog and dust. This wonderful exclusive feature of Noviol Conaphores (yellow tint) is patented.

Equip your car with Conaphores. They safeguard you, and make for the safety of others. Legal everywhere. Dimming unnecessary. Made in both Noviol and clear glass.

Easy to install. Sizes to fit all cars. Order from your dealer—if he has not received his supply, write us.

SIZES					Novio1 Glass	Clear
5 to	6% inches	inclusive	-		\$2.40	\$1.60
7 to	81/2 inches	inclusive			3.50	2.50
85/8 to 1	0 inches	inclusive			4.50	3.00
101/8 to 1	11/2 inches	inclusive			6.00	4.00

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CORNING GLASS WORKS ALSO MANUFACTURES PYREX TRANSPARENT OVEN DISHES

# ONION WEEDER



It gets the weeds that are directly in the onion row. Don't waste your time weeding onions by hand. This machine speeds up production 90%.

Send for free trial.

Write for particulars at once.

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D & C Line Steamers are now being operated on daily schedule between Detroit and Cleveland, leaving both points at 10,45 p. m., Central Time.

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## TREES FOR PROFIT

Mr. Planter if you are going to plant out an orchard this spring be on the safe side by planting my Guaranteed Trees. True to name, free from disease and packed so as to reach you in perfect condition.

JOHN W. FINN'S, Wholesale Nurseries
Est. 1890 Dansville, N. Y. Box 21

# VOUR WIFE WILL SAY Let's make the home brighter and enjoy the comforts and covenience of electricity." You can get away from the log-bear" of nasty oil lamps and the danger of acctylene gas, by installing PERFECT LIGHT,

Has all the latest improvements. Runs washing machine, cream separator, churn, electric iron, etc., vat the same time it generates current for lights. Prevents waste of current as that generated and not used is stored in batteries ready for lights at any time of night. Supplies 40 to 50 lamps. Rusgeed 31 H. P. SELF. STARKING KEROSENS ENGINE-no cranking-a woman can run it; is detachable from plant for other works. Set up requires little attention. Price lower than others. No motors or extras to buy. Sold without engine, if you have one. Before you invest in a light plant write to The MERRELL CO. OFFI. A

Will Trade 8-16 Avery Tractor (successful kerosine burner) with three bottom 14 inch self tripping plow and self guide. Bought year ago before prices advanced. Only used two months, good as new, and in every way a success. I want a 1917 or 18 Buick light six or Oakland Touring Car. No other. Agents of either above cars can get a moneymaking trade as I have no use for tractor. I live in Allegan County, Address Box U., Michigan Farmer, Detroit, Mich.

# FIELD PEAS

Our farmers have some 300 bu. choice Canada Field Peas. Germination 95 to 100%. \$4.80 per bu. bags free. First cash gets the peas.

I. B. McMURTRY, Co. Agent, Cheboygan, Mich.

SEED CORN

Early Yellow Dent 100-day variety & Kaufmann's 90day Yellow Pa. grown. Germination good. Grade corn shipped
upon approval. Price 88 bu. C. M. & J. Graves, Antwerp, O.

## SEED BARLEY \$2 40

RECLEANED. BAGS EXTRA 25c.

SEED BEANS

New Prolific. Yield last season 19 bu. 100% germination, College tested, Picked less than one pound from machine and harvested without rain \$9 per bu. Bags extra. E. S. Christiansen, Coral, Mich.

TIMOTHY SEED \$4.00 per bushel. High purity and germination, first class in every way. Timothy-Alsike Mixture \$4.50 per bushel, 45 lbs. Bags extra at 25c. each, YOUNG-RANDOLPH SEED CO., Owosso, Mich.

#### SEED BEANS

White Pea Beans, large, good germination, were not frosted or wet. Price reasonable. Sample on request, M. A. Berridge & Son, Greenville, Mich.

SEED BEANS Grown in Shiawassee Growers and germination to Co. Agent, Corunna, Mich.

# Stationary Engine Eight horsepower gas engine used only a short time. We must move it and will dispose for \$100. Write today, to MICHIGAN STATE AUTO SCHOOL Box A, 687 Woodward Ave.; - Detroit, Mich.

When writing to advertisers please mention The Michigan Farmer.



# Our Real Opportunity

more than the usual share of respect relief work, is paying fifty cents a their attainment of the end we desired a week. is seen. We give up a thing which to sacrificed. So that no good deed dies rial success? We have been blind wor- not in mere money and guns. so long as the soul of the doer lives.

who are seeking for good out of the present world chaos. Certainly if the amount of good derived is in proportion to the sacrifice a colossal amount awaits this poor world as a result of the stupendously heroic sacrifice now being offered up. Life will never be top? The rod had slipped out of the are a military unit in the campaign the same again to the wives and moth- hinge. Without a moment's hesitation and three times a day you are called ers who have given their all. Can it ever be the same to the rest of us? Can we go back to our old careless, selfish way after it is over, calmly forgetting the blood that has been offered up for our peace and safety? If we can, then our old philosopher is wrong and the most vital sacrifice offered up since Calvary will have been in vain.

Surely we who are old enough to understand it all can not accept the sacrifice unchanged. We have been grossly selfish, demanding that life give all to us, and refusing to give in return. Looking upon our little chance here on earth as a time to get all we could and give as little as possible. But we can never do it again.

Already there is a change. Women who have never roughened their hands with work are scrubbing hospital floors on the other side, and doing the most menial forms of service. On this side women who have scarcely entered their own kitchens except to give orders, are letting cooks go and are themselves trying the conservation recipes sent out by the government, in order to save the foods so necessary to win the war. And men who thought they could eat nothing but choice steaks and roasts, flanked with hothouse products, are eating stews and rutabagas with an appetite whetted by the thought that they can help in this way though they may be too old to carry a gun. If the boys can give their lives, if the mothers can give their hearts, those of us who are not called on for this sacrifice, see that we can easily give our pleasure.

We have entered into a new dispensation, the dispensation of service. Our thought no longer is to see how much we can shirk but how much we can do. For the first time in our selfish lives we are mindful of the injunction of

rifice is ever lost," said a thought- no time to knit. She bought a \$50 bond in vain. This is what Galsworthy says ful writer, who must have had of each issue, given to every form of to America:

It's a sustaining thought for those But our idea of a successful life has ness."

been the wrong one. If this war brings to us the abiding idea that the great man is the one who gives, not the one LOVE to think that no heroic sac- crying the other day because she had who takes, then it will not have been

"The burden of proving that a demfor human nature. Certainly it seems week to help keep a Syrian baby, and ocratic 'live and let live' world-civilizato us many times that not a few of the yet feels she hasn't done enough be- tion can stand will be on her shoulders sacrifices we make are lost, so far as cause she can't turn out a pair of socks more than on those of any other nation. It will all depend on what Amer-The heroic sacrifice is at work in icans make of their inner life, on their us is of heroic size, and the one for our hearts now. Will it continue when individual habits of thought, on what whom we make the sacrifice accepts the victory is finally won? Or wlil an- they reverence and what they despise. our offering as calmly, and ungrateful- other generation find Americans slump- If they despise meanness and cruelty, ly, as a child takes its daily bread, with ed back in their old habits? Will we injustice and oppression, shoddiness never a thought of what the gift means give to our children and our children's and blatancy; if they reverence chivalto us. But if we look at it in the light children a passion for service? Will ry, freedom, toleration, good order, of our philosopher we will see that the we make them see that the real things and pride of work—America's star will sacrifice is not lost. Its influence of this world are the things of the shine before all peoples not so blessed shows up in our lives if it makes no spirit? Or will they gather that the by fortune. She will be loved, not fearimpression on the one for whom we chief thing in life is to work for mate- ed; she will lead in spirit and truth, shippers of what we termed success. stands at the door of her real great- one-fourth teaspoon of cinnamon. Mix

#### Substitute Brains and Save Wheat people.

Do you remember the day you pick- ed to save 100,000,000 bushels of wheat

to cut consumption. Keep your eye on that goal; let nothing turn you you must have biscuit why not barley aside. We are in a race with Ger-"Food Will Win the War"but whose food?

The American people have been ask-

ed up the coffee pot and off fell the by July as a military necessity. You you slipped in a bit of wire, bent it in on to do your share. If you fail you position and secured the top—the rod imperil the safety of the army on the was gone but you substituted brains. other side. No reason, no excuse mat-That is just what you are called on ters; the only thing that counts is savdo in bread-making-substitute ing the wheat-the cut must be made. "But biscuits are the quickest to

The object of the wheat campaign is make," objecs one woman. That's an excuse not a reason-if

biscuit, rice biscuit or corn flour biscuit instead?

"I must keep light bread on hand," hot enough for cornbread."

stitutes and can be cooked on top of

"But," and this is heard from many flour for victory bread."

treat. There are always potatoes too try it. small to bake that can be turned into will be saved.

tion one-third, and that's the point.

How to save your share of that 100,- twelve cakes. 000,000 bushels of wheat is mostly a tignt place use your nead brains-but above all do the job.

Give King Corn a royal welcome to your home.

There are many substitutes for

#### Do You Know Oatmeal?

O you know that oat mear makes delicious puddings and other good things? Of course you know it is a good breakfast food, but it is even better fixed up for dinner or sup-To cook oat meal, stir slowly two and a half cups of rolled oats into five cups of boiling water which has in it one teaspoon of salt. Cook for one hour, or over night, in a double boiler or fireless cooker. This will serve five people. If you want it for two meals, cook twice the amount to save time and fuel.

Other Ways with Oatmeal.
Oatmeal Betty.—Two cups of cooked oatmeal, four apples cut up small, onehalf cup of raisins, one-half cup sugar, and bake for one-half hour. Serve hot or cold. Any dried or fresh fruits, dates or ground peanuts may be used instead of apples. This will serve five

Scotch Soup.-Two and a half cups of water, one and one-fourth cups of rolled oats, five potatoes cut in small pieces, two onions sliced, two tablespoons of flour, two tablespoons of fat. Boil the water and add the oatmeal, potato and onion, salt and pepper to season. Cook one-half hour. Brown the flour with the fat and add to the soup. Cook until thick. One cup of tomato adds to the flavor. Serves five people. With bread and dessert it is enough for lunch or supper.

Oatmeal Bread.-One cup of milk or water, one cup of rolled oats, two and a half cups of wheat flour, one-third says another, "my oven is often not yeast cake, one teaspoon of salt. Scald the liquid, add salt and pour over the Another excuse-mush, rice, pota- oats; cool half an hour, add the yeast toes or hominy are excellent bread sub- mixed with one-quarter cup of lukewarm water and the flour. Knead and let rise until double the size. Knead again and let rise in the pan until the women, "my grocer has no substitute size is doubled. Bake in a moderate oven for fifty minutes. Makes one Well, why not potatoes? Potato loaf weighing one and a quarter bread is excellent and potato biscuit a pounds. Is delicious with all meals-

Spiced Oatmeal Cakes. One-half cup bread. Small potatoes make large of cooked oatmeal, one and a half loaves. Substitute brains and the will cups of flour, one-fourth cup of sugar. to conquer for excuses, and the wheat one-fourth cup of raisins, one-fourth teaspoon of soda, one-half teaspoon of One woman who could buy no sub. baking powder, one-half teaspoon of stitute cereals at her store, and had no cinnamon, three tablespoons of fat, onemoney to order elsewhere, made two fourth cup of molasses. Heat the moweeks' supply of flour do for three, lasses and fat to boiling. Mix with all She did the job; she cut flour consump. the other materials. Bake in muffin pans for thirty minutes. This makes

Scotch Oat Crackers .- Two cups of matter of ingenuity. When you get in rolled oats, one-fourth cup of milk, onesubstitute fourth cup of molasses, one and a half tablespoons of fat, one-fourth of a teaspoon of soda, one teaspoon of salt. Grind or crush the oats and mix with the other materials. Roll out in a thin Silent pro-German appetites are as sheet and cut in squares. Bake twenty hostfle to the allied cause as disloyal minutes in a moderate oven. Makes three dozen crackers.

The attractive feature about this dress of the ever popular navy serge, is that it may be worn instead of a suit and blouse, the pretty guimpe and vants. One woman who is taking care of four children, two of her own and two whose father has gone to war, and cooking for three boarders so as to help out the meager income, was found finished at the bottom with silk fringe.

The attractive feature about this dress of the ever popular navy serge, is that it may be worn instead of a suit and blouse, the pretty guimpe and to collar of checked silk gingham giving the effect of a blouse. Running diagonally across the skirt are bands of wide black silk braid, while down the right side is a long black satin sash help out the meager income, was found finished at the bottom with silk fringe.

There are many substitutes for baked Oatmeal and Nuts.—Two cups of cooked oatmeal, one cup of crushed peace.

The difference between the patriotic blespoon of vinegar, one-fourth teatorican housewife and the one who spoon of pepper, two and a half teatorican housewife and the one who spoon of salt. Mix together and bake by the amount of wheat flour in her in a greased pan fifteen minutes. This kitchen. Baked Oatmeal and Nuts.—Two cups is enough for five people.



The attractive feature about this

#### A WORD WITH MOTHER.

BY M. MEREDITH.

the worst one of all." How it set me wear when needed .- Mrs. Wm. R. thinking. I was sure that I couldn't possibly be included in that category, but, when I reflected on the many games I had ruthlessly interrupted and the apparently arbitrary demands I had made on my children at times when they were most deeply absorbed, I was forced to admit that I, too, had been all too often a "fun-spoiler." mothers are a thoughtless lot, and are apt to forget that the rights of the children as individuals are quite as sacred as our own right to liberty.

When we want a child to do something for our convenience, we do not hesitate to call him away from his play to do it, even if he is in the middle of placing a beam in a shack he is building. We demand our small daughter's immediate and cheerful attention at the crucial moment in her doll's dressmaking when, if she drops her work, the stitches will all be lost. To them these matters are of tremendous importance, and we should respect them. We should give them the thoughtful consideration that we are training them to give us. This is not to say, of course, that children should not learn the lessons of obedience cheerful service and unselfishness. It does mean, however, that the parents should not demand a service without stopping to consider the children's side of it, whether it will interfere with some task he has set himself, or even "spoil his fun." The service should be asked as a favor, and time allowed for the completion of the matter already on hand.

If we expect children to appreciate the loving things done for them by their elders, we must render appreciation for the things the children do for us. If it seems necessary to call a child away from play to perform some errand or household duty, the child should be consulted, the favor asked, and a reasonable time given for adjusting its thoughts to a change of occupation. Due consideration should be given to their plans and if possible we should arrange our work so that their play shall be reasonably free from in-

Ever since that little lad gave me an unconscious warning, I pause before summoning my children to carry out my bake rather slowly until done.—L. M. T. wishes, even when I know my way is right, and murmur to myself, "Fun spoiler." Then I try to be as considerate of their convenience and happiness as I like others to leave me free to follow out my plans, always allowing for the proper guidance and oversight that is a mother's duty. Children are individuals with individual growth and progress to make, and it is not the parents' place to form and household Editor.—Would you kindly print a recipe for rye bread with full mold children to their own personal directions?—M. S. wishes, but to help them unfold in the best way for their own good.

#### MENDING.

younger children.

next winter.

One of the best ways to keep the kneading.

mending from accumulating is to place a large basket in a convenient place, out of sight, and as soon as a garment Are you a "fun spoiler?" This is is found to be in need of repair to how a little friend of mine designated place it in the basket. It can then be grown-up people. I heard him say: cared for whenever there are a few "They're all fun spoilers, and mother's moments to spare, and will be ready to

#### CONSERVATION HINTS.

Meat and grease may be saved in different ways. Rich milk added to beans before baking will make them just as good as if pork had been put in. If a well beaten egg is put into pancake batter, the griddle will not need greasing. When baking pie crust, if the pie can be eaten the same day, suet (tried out) may be used for shortening by adding one cup of boiling water when mixing it .- Z. I. D.

If you have fruit juice left after using the fruit for pies, do not throw it away as many do; instead, prepare apples as for sauce, put into a granite or earthenware baking dish, add a little sugar, pour the juice over them and bake till well done, keeping covered, and stirring occasionally.-Mrs. J. C. T.

Do you know that goose, duck and chicken oil is an excellent shortening for cake? You will not need to use as much as of other shortening.-Mrs. J. C. T.

My children will not eat fat pork, therefore I trim off the fat instead of giving it to them to waste, and save it until I have some lean beef leftovers, when I chop the fat pork and lean beef together, mix a very little chili sauce with it and set aside for making sandwiches for school lunches. The dear kiddies do not suspect the presence of the fat. The sandwiches are fine.-Mrs. J. C. T.

Sometimes I boil rice in fruit juice, using a double boiler, of course. 'Tis fine with sugar and cream.-Mrs. J. C. T.

After a dinner of boiled ham and cabbage, or any boiled dinner, strain off any remaining broth, and you will have when it cools a cupful or more of clear fat, slightly seasoned perhaps with the vegetables of the dinner. Mix a part of this with chopped potatoes, a little pepper and a small chopped onion and you have a delicious hash to fry.-L. M. T.

When bits of several different kinds of meat and vegetables have accumulated, cut in small pieces and mix, placing all in casserole. Pour in one cupful or more of cooked tomatoes and

I have found that carrots make as good a pie as pumpkin. Boil them in salted water, mash in their own juice, brown down, run through collandar and then proceed as if it were pump kin.-Z. I. D.

#### HOME QUERIES.

Household Editor.-Would you kind-

A good rye bread is made as follows: Pour one pint of boiling water, or of scalded milk, or a mixture of both, over two teaspoons of salt, and two tablespoons each of sugar and There is an old saying, "One stitch shortening. Allow to get lukewarm in time saves nine." This is especially and add one cake of compressed yeast, true in the mending of stockings. By which has been softened in lukewarm laying aside a ragged stocking as soon water. Stir well and then mix in one hole is discovered that it may be pint, or two cups of wheat flour. Do washed and mended, three pair of good this in the evening, and set away, covquality hose wear my children about a ered with a clean cloth, to rise until year. As the boys wear long overalls, morning. In the morning work in rye only the stocking feet are worn out. flour until the dough will not stick to The tops make good mittens for the the hands, and set away again to rise until double in bulk. Then form into Wornout garments are not allowed loaves, let rise again, and bake as to accumulate. If they contain mate- wheat bread. If you are in the habit rial that can be made into any useful of making bread, use your own rule article, that is done as soon as possi- and finish with rye flour after sponge ble and put away till needed. Winter is light. Many prefer a sour rye garments taken off in the spring are bread. This can be made by adding a mended before putting away for the piece of sour dough to the new bread when it is set to rise after the first







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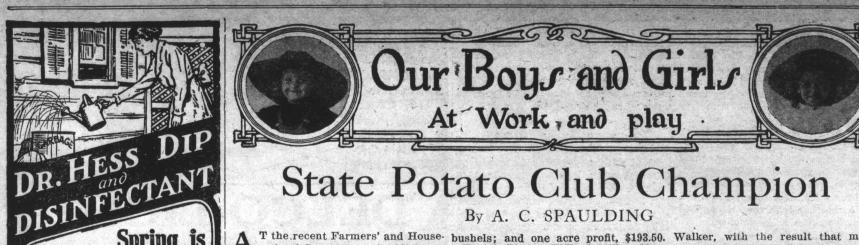
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A r the recent Farmers' and House-wives' Congress at the Michigan displays that attracted considerable at- years; size of plot, one-fourth of an Exhibits which were given consider- from plot, \$43.45; acre yield, 224 bush- yielded 75 bushels of potatoes, that is able prominence along the left side of els; acre profit, \$173.40. the girls' sewing clubs and part to the crop this year by hill selecting a quan-

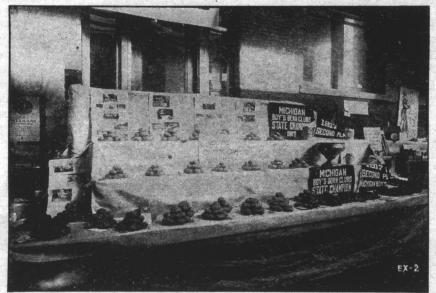
T the recent Farmers' and House-wives' Congress at the Michigan Fourth Place.—Willard Miller, Man-turns this fall were beyond even what Agricultural College, one of the istique, Schoolcraft county. Age, 13 I had hoped for. tention was the Boys' and Girls' Club acre; yield of plot, 56 bushels; profit feet square. Last year this plot had

the pavilion. Part of this display was Many of these boys were enabled to yet I was sure that the soil had not given over to the Red Cross work of make extra money from their potato been completely robbed of its fertility. major portion was left for the annual the best clubs in the upper peninsula

The plot of ground selected was 104 at the rate of 402.6 bushels to the acre,

About May 30 this sandy soil was handicraft work of the boys, but the tity of good seed. In fact, several of plowed to a depth of five inches. Green Mountain potato seed was cut, two eyes to the piece, and planted by hand to a depth of four inches. The rows of potatoes were planted two and one-half feet apart, and one and one-half feet separated the hills in the row. After harrowing my plot it appeared to be in fine condition and I felt sure, right from the start, that a bumper crop would greet me in the fall, I knew, of course, that to realize my ambition meant work. The soil had to be enriched and for that purpose two team loads of manure were scattered evenly over the plat, and then turned under. Twice during the growing season the soil was cultivated by hand. Happily, treatment of the stalks and leaves for insects and plant diseases was unnecessary. In fact the potato plants grew so fast and so thick that I was convinced that I could do little to improve conditions. About October 1 my first crop seemed to have reached maturity. but it was not until the tenth that I began the pleasant work of harvesting. Every hill I turned up 'tickled me,' because of the large number of potatoes I found under each one. When I had The work which these potato club finished a pile of large, clean, white potatoes, measuing 126 bushels, had been dug up.

"I do not believe I was ever happier, show. About thirty of the best dis- of food. The following story may give for I had accomplished what I set out



Boys' Potato Club Exhibit at the Farmers' and Housewives' Congress.

state exhibit of the boys' potato clubs. are at work at present making a spe-The past year was not a good one cialty of such seed.

from the standpoint of the potato club did not keep them from finishing up years is double interesting now in the plays from the upper peninsula exhibit some idea of how the actual raising of to do, namely, grow more potatoes on were sent to the state show by the boys, and they certainly demonstrated the fact that they can produce potatoes in that region.

The potatoes on exhibit were accompanied by the reports and stories of the club members. The work of these junior potato growers was judged on the basis of the quality of the exhibit, the amount raised per acre, the profit made and the report and story. The potatoes themselves were judged by Mr. J. E. Milward, Potato Extension Specialist for the University of Wisconsin, Madison, Wis. The reports and stories were graded by a committee from the Junior Extension Department of the Michigan Agricultural College.

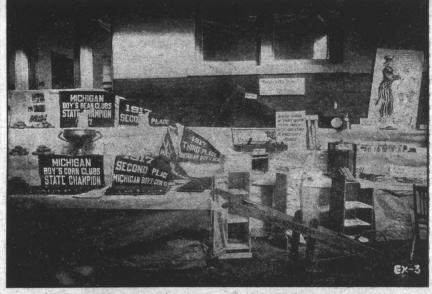
When the reports, stories, yields and profits had been averaged the judges announced the following results:

State Champion.-Gifford Felt, National Mine, Marquette county. Age, 15 years; size of plot, one-fourth acre; yield of plot, 126 bushels; profit from plot, \$146.40; grade on report, 95 per a crop of potatoes appeals to a good, that one one-quarter of an acre of cent; acre yield, 504 bushels; acre bright, normal American boy. This ground than my brother did. profit, \$593.20.

of plot, 1811/2 bushels; profit from plot, same ground. \$151.90; report, 931/2 per cent; acre yield, 373 bushels; acre profit, \$313.80.

report, 93 per cent; acre yield, 275 en me by our club supervisor, Mr. will be held in the model school.

members of the lower peninsula, but it boys have been doing in the last few and making a fine display at the final light of our present need for all kinds



Handicraft and Boys' Bean and Corn Club Exhibit.

boy's story and his achievement are of Second Place.-Fred Bickola, Trout more interest when we learn that his join the Potato Club." Creek, Ontonagon county; age, 17 brother won the state championship years; size of plot, half an acre; yield for potato growing last year, using the BOYS' AND GIRLS' CLUB NOTES.

How I Grew my Potatoes.

"Boys, if you want some real fun,

The Michigan State Fair is plan-"Spurred on by my brother's success ning to construct a model rural school Third Place.—Roy Wiltse, Big Rap- last year, I enrolled as a member of on the grounds for the coming fall fair. ids, Mecosta county. Age, 15 years; the Boys' Potato Club. Eager to do This building will be the headquarters size of plot, half acre; yield of plot, better than my brother, I followed as for the Boys' and Girls' Club Depart-129 bushels; profit from plot, \$90.05; closely as I could the instructions giv- ment. All contests and demonstrations

#### HANDLING BROODY HENS.

Some of the larger breeds of hens will persist in becoming broody and they sometimes refuse to give up without we go to extremes with them. I have had Orpingtons set on boards on the bare ground and with no protection from the elements, and keep it up until they became poor. In most cases I can break them up quickly, though, for a special coop for the purpose is a part of my equipment.

I have found that three things help me: Air circulating under the hen, plenty of water and feed for them to work on when they are restless, and the society of the flock. Because of this I use a coop with a bottom made of narrow slats or of laths, preferably on edge, and set this coop where the other hens work all around it, and have a water fountain and a self-feeder attached to the side. Seldom do I have to keep the hens in this coop more than three days, and I have had hens lay in the coop.

Breaking up quickly is important, for a hen is a laying machine, and it is necessary for her to keep up her vigor and condition to be laying at her best. If we leave the hens on the nests a week or so they become poor and have the setting fever so well established they are much harder to stop, and it takes them longer to get back to egg laying. If the hens are taken off as soon as they stay on the nest over night it will be easy to induce them to stop, and then they go to laying again with almost no interval between. At the price of poultry feeds now it behooves us to have no unproductive intervals.

One of the reasons why the smaller breeds lay more eggs is their nonbrooding habit, and by care we can reduce the trouble from broodiness in our flock of larger breeds to an equal extent. I have kept the Silver Spangled Hamburgs and it seemed that these little hens were always on the job in the spring and summer, but I have had Orpingtons that I have kept equally busy and for a longer period. I never could induce a Hamburg to lay anything like a dozen eggs a month in the late fall and winter, and I have done this with the Orpingtons when I had good range and a small flock and gave well balanced rations.

FLORA DEAN. Kansas.

#### DO NOT NEGLECT LATE HATCHES.

I have found that with proper care, chickens hatched out in April, May and even in June, will mature and start laying before cold weather comes. If the chickens are not cared for properly then, of course, they will not do as well and will not mature as early as those that have had plenty of feed and care. Much depends upon caring for young chickens, whether hatched early or late. Early hatching, however, requires more care and expense than will be the case with late hatches, when the weather is warm and seasonable. Then again, better hatches are usually secured when set in the latter part of April or in May. The eggs are much more fertile than those used for early hatches.

we are often surprised by seeing a large brood walking around proudly as a result of the hen stealing her nest.

Choice Chicks April and May hatched heads 104 for \$17.50. Eggs per setting of 15, \$1.50; per 108, \$7.50, Grescent Egg Company.

Allegan, Mich. and this is an indication that the best natural conditions are more favorable for the young at this particular season and they can be raised with less care and attention than at any other time.

It is a good plan, however, to raise early chicks also, and especially where they are to be sold on the market as broilers, but is a mistake to think that it is absolutely a necessity to get early hatches in order to have chickens in condition for winter laying. Our May chicks if properly fed and cared for wifi mature and start laying in Novem-MRS. E. O. SWOPE.



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Chester Gilts bred for March farrow early fall pigs both sexes from best blood lines. F. W. ALEXANDER, Vassar, Mich.

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

O. I. C.'s 2 choice May boars & Sept. & Oct, pigs sired by First Premium boar Mich. State Fair 1917. Clover Leaf Stock Farm. R. 1. Monroe, Mich.

0, 1, C.'s big type, one yearling sow and gilts to far row in Apr. and May. Aug. and Sept. boar G. P. ANDREWS. Dansville, Michigan.

O. I. C.'s all sold except some fall gilts. Order 0. J. THOMPSON, Bockford. Mich.

O. I. C. 's. Last spring gilts bred for next spring far row also last fall pigs either sex and not akin. Good growthy stock 'mile west of Depot, Citizens phone 124. Otto B. Schulze Nashville, Mich.

O. I. C. For sale fall gilts and a few gilts F. C. BURGESS. Mason, Mich. R. F. D.

FOR SALE
Smooth Jumbo a grandson of Peter Mouw's old boar
Smooth Jumbo a 600 lb. yearling. A top notcher fit to
head any herd. Also some nice bred gilts at \$50.
If you get one you will have to hurry.
J.C. BUTLER,

Large Type P. C. no public sale this year; 50 sows and glits all queens of the breed go at private treaty.
W. J. HAGELSHAW. Augusta, Mich.

Big Type P.O. Big boned fellows from Iowa's greatest herds. Special prices on spring boars. E. J. MATHEWSON. Burr Oak, Mich.

Big Type P. C. bred for March & April farrow sired by Peter's Jumbo & Grand Superba and 2 or 3 year-ling sows at bargain prices. C.E. Garnant, Eston Rapids, Mich

Large Type P. C.

Bredgilts and boars all sold nothing to offer at present.
W. E. LIVINGSTON. Parms, Mich.

Led for spring pigs at weaning time. Shipped C.O.D.E. R. LEONARD.

P. C. Sows For Sale. Bred for April farrow. A. A. WOOD & SON. Saline, Mich.

Large Type P. C. fall gilts, sire 800 lb. yearling to be bred to 1000 lb. 2 year old for July & Aug. 2 extragood fall boars. WM. J. CLARKE, R.7, Mason, Mich.

BIG TYPE POLAND CHINAS. Booking orders for spring pigs.

G. W. HOLTON, R. II, Kalamazoo, Mich. G. W. HOLTON, R. II, Kalamazoo, Mich.

Large Strain, P.C. A few gilts left bred for June farrow and 2 nice boars ready for service at farmers
prices. H. O. SWARTZ, Shoolcraft, Mich.

BIG TYPE Poland Chinas: Brood sows all sold. Have a few fall pigs. Prices right.

L. W. BARNES & SON. Byron, Mich,

Hampshire Boars at a bargain. Book-ing orders for Spring pigs. JOHNW. SNYDER, R. 4, St. Johns, Mich.

HORSES

REGISTERED PERCHERON

Mares and Stallions priced to sell. Inspection invited:
L.C. HUNT.

RAPIDS, MICH.

## PERCHERON DISPERSAL

The entire herd of the late A. A. Palmer will be closed out; 25 pure bred per-cheron mares \$200 to \$400 except two; also young stallions

PALMER BROS., Belding Mich.

FOR SALE Imported Belgian Stallion (Eli 1800, color brown. Call or address.
ANDREW HAMMERBACHER, Arlington Hotel,
201 So. Linn St., West Bay City, Mich.

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

Percheron Stallions and mares of reasonable prices; inspection invited.

F. L. KING & SON. Charlotte, Mich.

Percherons Only mares and fillies. Stal J. M. HICKS & SONS, R. 2, Williamston, Mich.

FOR SALE Three Registered Percheron stallions and two Percheron mares cheap to close out.

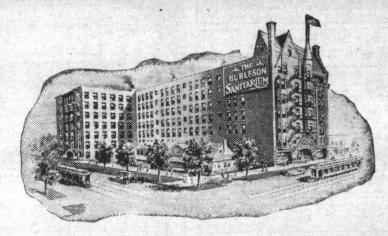
E. J. ALDRICH, Tekonsha, Mich. For Sale Pure blood eleven months old Blue Grey stud colt, eligible, will weigh over 1000 lbs.; sire weighs 2300. Will make a good horse when developed, Write, or telephone No. 172. CHRISTLEY, Three Oaks Farm, Constantine, Mich.

Two Large Shetland Ponies and several good for hounds. W. E. LECKY, Holmesville, Ohio

SHEEP

#### KOPE-KON FARMS.

# Piles Cured Without the Knife



#### The Largest Institution In the World for the Treatment of Piles, Fistula and all Other Diseases of the Rectum (Except Cancer)

WE CURE PILES. FISTULA and all other DISEASES of the RECTUM (except cancer) by an original PAINLESS DISSOLVENT METHOD of our own WITHOUT CHLOROFORM OR KNIFE and with NO DANGER WHATEVER TO THE PATIENT. Our treatment has been so successful that we have built up the LARGEST PRACTICE IN THE WORLD in this line. Our treatment is NO EXPERIMENT but is the MOST SUCCESSFUL METHOD EVER DISCOVERED FOR THE TREATMENT OF DISEASES OF THE RECTUM. We have cured many cases where the knife failed and many desperate cases that had been given up to die. WE GUARANTEE A CURE IN EVERY CASE WE ACCEPT OR MAKE NO CHARGE FOR OUR SERVICES. We have cured thousands and thousands from all parts of the United States and Canada. We are receiving letters every day from the grateful people whom we have cured telling us how thankful they are for the wonderful relief. We have printed a book explaining our treatment and containing several hundred of these letters to show what those who have been cured by us think of our treatment. We would like to have you write us for this book as we know it will interest you and may be the means of RELIEVING YOUR AFFLICTION also. You may find the names of many of your friends in this book.

We are not extensive advertisers as we depend almost wholly upon the gratitude of

We are not extensive advertisers as we depend almost wholly upon the gratitude of the thousands whom we have cured for our advertising. You may never see our adagain so you better write for our book today before you lose our address.

#### Drs. Burleson & Burleson

804 The Burleson Bldg.

Grand Rapids, Michigan

# The Farmers of Michigan Lose Annually More Than \$2,500,000.00 Worth of Live Stock

Horses, Cattle, Sheep and Hogs

#### FROM ACCIDENT AND DISEASE

The animals are destroyed and their cash value lost not only to the farmer but to the community, the State. This amazing sum of money can be saved to the farmers and the State if they (the farmers) will but avail themselves of

#### The Michigan Live Stock Insurance Company

organized expressly for the purpose of indemnifying owners of live stock against death from any cause. We want agents to carry this great message to every farmer.

Colon C. Lillie, Pres. and Sup. of Agts., 319 Widdicomb Bldg., Grand Rapids, Mich. Harmon J. Wells, Sec. and Gen. Mgr. Graebner Bldg., Saginaw, W. S., Mich.

#### BREEDERS' DIRECTORY.

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

We Offer a Few Special Bargains In S. C. White Leghorn cockerels, Rambouillet rams, Hampshire pigs (either sex) and Holstein bulls. A good chance for a small investment to reap the benefit of a large expenditure of capital and years of expert breeding.

Flanders Farm, Orchard Lake, Mich.

CATTLE.

## **ABERDEEN ANGUS**

For Sale—Three high-class bulls of the "Blackbird Families" ages 17 to 23 three times Grand Champion Bull at Michigan State Fair. Write

SIDNEY SMITH, Supt. W. E. SCRIPPS, Prop. Wildwood Farms, Orion, Mich.

#### WOODCOTE ANGUS

Trojan-Ericas and Blackbirds only Breeders of the fam and former owners of the sire (our herd bull) of the Grand Champion Bull at the International Chicago for 1917. WOODCOTE STOCK FARM,

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

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

T.V. HICKS. Battle Creek, Mich.

#### Registered Guernseys A fine 3 year old heifer and her heifer calf—right in every way \$350. F. O. B. your town. J. M. WILLIAMS. North Adams Mich.

Guernsey Heilers. heifers and heifers calves, of good dairy type, thrifty, in good condition, and O. K. in every respect and out of high grade Guernsey cows and pure bredsires. Also grade Guernsey cows. Presenable. The JENNINGS FARMS, Bailey, Mich.

**Guernseys** 45 Registered head, all th tested. Nora's heads our herd, 190 folis half a sisters sold averaging \$1850 each. His bull calves are booked ahead at reasonable prices. Avondale Stock Farm, Wayne, Mich.

GUERNSEYS-REGISTERED BULL OALVES Containing blood of world champions, MICKS' QUERNSEY FARM, Saginaw, W. S., Mich

For Sale Registered Guernsey bull cal-younn EBELS, Registered Guernsey bull cal-wes May Rose breeding. R. 2, Holland, Mich.

For Guernsey bulls of the best blood Write Write Bay Shore, Mich.

### CLUNY STOCK FARM

rd Families" ages 17 to 23
All sons of Black Monarch 3rd When you need a herd sire remember that we When you need a herd sire remember that we have one of the best herds in Michigan, kept under strict sanitary conditions. Every individual over 6 mos. old regularly tuberculin tested. We have size, quality, and production records backed by the best strains of breeding.

R. BRUCE McPHERSON, Howell, Mich.

A Good Note accepted in payment of finely bredres. Outlier of the best, and at prices within reach of all. Write, GEO. D. OLARKE,

Parham's Pedigree Stock Farm offers Reg. Holestra bargins in calves and fall pigs.

R. B. PARHAM. Bronson, Mich.

#### A Few Fine Bulls For Sale Bigelows Holstein Farms, Breedsville, Mich.

\$225 takes your choice of heifers of a 30 lb son of Johanna Korn. D. K. Terms if wanted.
M. L. McLaulin. Redford, Michigan.

#### The Grange and the Rural Community By W. F. TAYLOR

widespread interest in rural problems. of activity of one kind and another. Teachers and preachers are talking about agriculture, authors are writing solution of difficult rural problems that have puzzled farmers for "nobody knows how long," and the daily press is giving information and instruction in the art of farming until it would seem to anyone who knows little or nothing about it, that all these good people have made the way so plain 'that the wayfaring man though a fool, need not err therein."

#### A Social Question.

the country, relating to the problem of of all. farm management under the growing scarcity of farm labor.

wages that induces our country boy to to the comfort and convenience of our go to town. They would not stay on homes, and that will take money also. the farm if wages were as good as they If we are to do any of the many things are in the city. They are tired of long that we are so often told will increase hours, and of the isolation of country our happiness and our power to do life. They want a short day, and a good in the world, money must be had. chance after their work is done, to True, there are many Granges that meet with their fellows. The farm do little or nothing for the neighbormust be run like any other business or hood where they are, there are churchmanufacturing. There must be no more es of which the same may be truly hours in a day, and the workers must said. It is not so strange either, for if be given an opportunity to meet when there are men and women who live the day is over, for social privileges.

#### Community Management.

He suggests the taking over of several small farms into one large estate, and the management of it by competent parties who will employ men living in town. He suggests that these laborers can reach the farm by means of autos, motorcycles, and that to do among the activities and callings of so will be a very simple matter.

He says, however, that he knows of cities that might be gotten, and he is anxious to see the experiment tried ing and the insuperable difficulties in of prominent men in the city.

eight dollar beans to the farmer, it is lighten all upon this important subject. small wonder that city people are getting anxious about what they are going to eat at no distant day.

Then, too, it is cheerfully admitted that'a part of this interest in country

#### Evolution Not Resolution.

men who are ignorant or careless or knows more about them. have large farms, small farms and be- little or nothing to say about the prices tween, for many years yet.

This means in Michigan, that there (Continued on page 566).

EVER before in the history of will be rural neighborhoods having ruragriculture have there been so al schools, trying to maintain the many people watching the farm- Granges and other farm organizations, Never before has there been such with rural churches and other centers

#### The Stability of a Community.

The rural community where people stories about the farm, magazine writ- own their farms, where they are coners are racking their brains to find a tent to live, and so pass the greater part of their lives, is not much of a problem compared with the community composed largely of renters who do not usually remain in one location more than a year or two. But in any community certain things should be made possible. There should be a good school, a good Grange, a prosperous rural church, unless it is near enough to town to permit the people to attend church there, and these educational, Speaking of magazine articles about social and religious centers should be rural conditions and possibilities, re- so supported as to make them powers minds me of a recent contribution to in the moulding of the lives of the one of the most reliable magazines in young, and in adding to the happiness

To build schoolhouses, Grange halls and churches requires money. While The author says that it is not high we are building them we ought to add

with no purpose save their own enjoyment and so miss that, then why should there not be organizations of those people whose collective vision is as dim and restricted as that of the individuals who compose them?

#### Rural Organization Necessary.

If agriculture is to maintain its place men, then it will be through organization. The Grange is here, and so we sufficient good land adjoining several do not have to build it save where it

has grown weak, or failed altogether. Through the Grange, the best people out. I make mention of this article, of every rural neighborhood should not to discuss its merits, because farm- give expression to their best and wisers are going to read what I am write est plans for community betterment. First, there is the matter of better the way of carrying out the plan in- farming. The Grange should be ever volved will appear to them. But I re- at the front in every movement toward fer to it merely to show the interest in better agriculture. In a fruit section, the calling of agriculture on the part spraying programs should be so frequent and so serviceful that not a sin-The reason for much of this anxiety gle member can stay in that Grange is clear. The farmer produces the food and not get the information which he and with meatless and wheatless days, should have if he is to operate an the memory of three dollar potatoes orchard. If the community is a dairy fresh in our minds, and with talk of center, then dairy programs should en-

#### Work for Improvement.

The Grange in each locality should give its support to every movement calculated to better the condition of agriculture. If there are sufficient peosire to help their brothers out on the associations should be formed.

The Grange should cooperate with We need not look for a revolution in the county agent if there is one, and if agriculture. We may expect evolution not, steps should be taken to secure instead. We do not doubt the ability one. We meet now and then one who of a good business man who under- questions the county agent plan, who stands how to operate a farm, to run objects to the program of our agricula large area of land with greater effi- tural college, and who is using a lot ciency than is possible with that land of energy in objecting to things that divided into small farms and tilled by he is going 'o like very much after he

both, of the methods that bring results. Now, everything is changing-much But we have not the least idea in the of our fertility has been lost by bad world, that it would be possible to buy methods of soil handling, combinations up these small farms at a price that of capital and organizations of labor would make it practical to assemble have alike limited our privleges, prothem in large estates and devote them ducts of the farm are sold under the to agriculture. No, we are going to widest competition by those who have paid for them, labor has gone to the

CATTLE

#### HOMESTEAD FARMS

A Federation of Interests

Holsteins

A herd of 50 Holsteins headed by the bull, King Zerma Alcartra Pontiac, son of King Segis Pontiac Alcartra the \$50,000 Holstein Bull and full brother to Mable Segis Korndyke; 40.32 lbs. of butter in 7 days at four years old.

at four years old.

This hard is of the very highest class of Holsteins and are the kind that the practical farmer should have who wants stock that is sure to pay out.

The following family is offered as a foundation for a high class practical herd Dam, Tatty Topsy Dawn, 4 vrsoid just freehened; ist damather paulinesadie Dawn, 2 vrs. old, pred Nov. 19th, either paulinesadie Dawn, 2 vrs. old, pred Nov. 19th, either paulinesadie Dawn, 2 vrs. old, pred Nov. 19th, either paulinesadie Dawn, a daughter; yold a with either of 1st daughter; 3rd daughter, born April 3s. Let us send you photographs and full description of this family.

Heifer calves, bred heifers and cows. Please tell what you want and let us describe and send photograph of the individual such as we think you would like.

Young Bull. sired by King Zerma Alcartra Pontiace.

would like.

Young Bull, sired by King Zerma Alcartra Pontiac;
Grandstre King Segis Pontiac Alcartra, the \$50,000
bull. Dam is Genesee Wonder, direct descendent on
both sides from De Kol 2nd Butter Boy 3rd.

both sides from De Kol 2nd Sutter Boy 3rd.
This young bull was born Jan. 30, 1918; is 35 per cent white, a straight, upright animal. We will send you description and photograph. Other young and older bulls of high class.

A fine Holstein herd; animals of all ages to select from, Please let us hear from you.

HOMESTEAD FARMS, Bloomingdale, Mich.

# 8th Annual Sale 8th

80 Holstein-Friesian Cattle 80 To Be Held

April 25, 1918, at Howell, Mich.

#### The Howell Consignment Sale Co.

These Cattle are a high class of stock nearly all are from one to four years old, bred in the most noted families individually fine, and bred to bulls of the 30 lb. kind. Catalogue ready.

Mark B. Curdy, Sec'y. Col. Perry, Auctioneer.

#### I Always Have Holsteins To Sell

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

OAK Leaf Farm. Herd sire Lenawse Pontiac Calamity King offer Registered Holstein bull calves from A. R. O. cows and the above sire whose dam holds the milk and butter record in the state of Ind. 7 days milk 786.3, butter 52.51—315 days milk 23782.3, butter 926.75. ter 926,775. E. H. GEARHART & SON, R. 4, Marcellus, Mich.

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

McPherson Farms Co., Howell, Mich.

for service, on account of selling farm and herd will sell these choice bulls from record families at ½ actual value. wait come see them.

ONG BEACH FARM,

### The Traverse Herd Great Values In Bulls

from A. R. O. Cows with records up to 30 lbs Let us know your wants. We will send extended ed pedigrees and prices.

TRAVERSE CITY STATE HOSPITAL, Traverse City, Michigan.



If you want cows that yield the greatest net profit learn why

HOLSTEINS PUREBRED Are the Most Profitable Cows on Earth.

They yield the largest quantities of milk, butterfat and profits. They are strong, vigorous, persistent milkers and thrive anywhere.

Let us show you — send for free book-

THE HOLSTEIN-FRIESIAN ASSOCIATION OF AMERICA, Box 164, Brattleboro, Vt.

# Extraordinary Opportunity Stonyhurst Stock Farm

The Livingston County Holstein Breeders Sale Co., will Hold Its

Fourth Annual Public Sale, Thurs., May 16, '18 At 10:30 A. M. at Howell, Mich., at the Sale Pavilion on the Fair Grounds 100 Head of Registered Holsteins Consisting of 91 Females and 9 Bulls.

This sale will be the Dispersion of the entire herd of S. B. Rubert, Howell, Mich., who contributes 40 head.

Among the bulls will be a herd bull by the Mighty Rag Apple Korndyke 8th and out of a daughter of Pontiac Korndyke. Several of the bull calves are of choice breeding and are fit to head herds. Their dams have records from 22 lbs. as Junior two-year-olds, to 29 lbs.

Among the females will be found: A 28-lb. daughter of King of the Pontiacs and two of her daughters by an extra good sire.

Two daughters of Pontiac Korndyke and some stock from each.

A 26-lb. Junior three-year-old; a 26-lb. Senior three-year-old; a 26-lb Junior four-year-old; a 25-lb. cow and her daughter by a 30-lb. sire; two 22-lb. Junior two-year-olds; two granddaughters of Colantha Johanna Lad, both with records; 20 daughters of Smithdale Alcartra Pontiac who has six two-year-old daughters that average 19.7 lbs. butter each in seven days and two three-year-olds with 25 and 26 lbs. He is a son of that famous cow, Alcartra Polkadot, who has three daughters with records above 31 lbs., and is a brother to the sire of Tilly Alcartra, the World's Champion Long Distance Cow.

A large percentage either have records themselves or are from record dams.

Many of the females are bred to bulls whose dams have records from

dams.

Many of the females are bred to bulls whose dams have records from 30 to 35 lbs. and nine are bred to King Segis Champion Mobel whose dam has a 40-lb. record at four years old, and who is a full brother to King Model who sold in the Steven's Sale in 1917 for \$10,000.

We believe they are the best bred lot of cattle ever offered at Public Sale in Michigan, with the single exception of the National Sale at Detroit in 1916. Remember the Date and Place and plan to be present.

Auctioneers: Perry and Mack.

Catalogs May 1st. F. J. FISHBECK, Secretary, Howell, Mich.

# FIRST ANNUAL SALE Michigan Ayrshires

27 head of Registered Ayrshires, including White Marmaduke 18882 Grand Champion at Michigan State Fair 1916 at Flint, Michigan

Wednesday, May 8th, 1918

at 12.30 o'clock P. M. All animals tuberculin tested and guaranteed. Write for Catalogue

> Michigan School for the Deaf W. L. HOFFMAN, Steward

West Michigan Holstein Breeders' Annual Spring Guarantee Quality Sale of Registered Holstein Cattle, Wed. May 15, 1918

At the West Michigan State Fair Grounds, Grand Rapids, Michigan

At the West Michigan State Fair Grounds, Grand Rapids, Michigan

A real Guarantee Quality Sale of 75 head of high class registered Holstein Cattle, from the breeding herds of the leading Holstein Breeders of Western Michigan.

Nearly all these Herds are under Michigan State and Government supervision and are being regularly tuberculin tested by State or Government Veterinarians.

We hold two Guarantee Quality Sales each year and our "Guarantee" means just what it says, and is not worded to fool the prospective purchaser.

Remember, we guarantee all females to be breeders if of breeding age, if they are placed in herds which are free from contagious abortion. We also guarantee all cattle to stand the Tuberculin Test, if retested within sixty days from the date of the sale, if placed in known healthy Herds, or kept where they can in no way come in contact with any other cattle.

We have two 30 pound bull calves in the Sale. One is from a cow that milked over 100 pounds of milk per day, and made over 30 pounds of butter in 7 days, and is sired by a high record son of King Segis Pontiac that is out of a cow with a 40 pound daughter. The other is from a 30 pound dam and is sired by a 31 pound son of the famous Colantha Johanna Lad. These two bulls are handsomely marked and are splendid individuals, and should interest any owner of a high class herd who is looking for a 30 pound Sire that possesses both "breeding and individuality."

We also have a bull calf from a 20 pound junior two year old Dam and out of a high record Sire.

We will sell 40 choice cows, several with A. R. O. records, of from 20 to 26 lbs. of butter in 7 days. A large number of these cows are safe in calf to bulls out of the Best Sires of a Breed and from Dams with A. R. O. records from 30 to 37 lbs.

There are 30 choice yearling heifers and heifer calves out of high class Sires and many of them from good A. R. O. Dams.

These cattle have all been carefully inspected by the Sale Committee and all undesirable animals have been rejected.

Remember,

W. R. HARPER, Sale Manager, Middleville, Mich.

I will sell at Public Auction on my farm located in the township of Nanlocal cars up to noon at the Jim Ruff Road on the D., J. & C. Electric Line), three miles east and one mile north of Wayne, on

TUESDAY, APRIL 30, 1918
Commencing at 9 o'clock (Hot Lunch at Noon), the following

Registered Holstein-Friesian Cattle

The Cow Mercedes Butter Boy Colantha. She is in the advanced registry, with a seven-day butter record of over twenty pounds. My Herd Sire, Dearborn Butter Boy No. 180874.

Huron Hill Pontiac Boy No. 211246.
son of King of the Pontiacs. AlsoThis choice yearling bull is out of a 67 High Grade Holsteins and Five Durham Cows

AUGUST BEWERNITZ, Proprietor.

Charles Thompson & Son Auctioneers James M. Butler and Thomas Jameson, Clerks

Bull born April 10th 1917. Dam a 13 lb. Junior 2 yr, dam of Maplecrest Korndyke Hengerveld whose dam and granddam both have yearly records of over 1230 lbs. butter, Sire is King Ona whose dam has yearly record at 11 years of over 1100 lbs. Bull is % white and as straight as a string. Priced cheap for immediate sale. Other good ones from \$75 up. good ones from \$75 up. F. A. BARNETT & SONS.

Rochester, Mich. Holstein bull, nearly ready for service, large straight deepbodied, handsomely marked % white. His six nearest dams have A. R.O. records that average butter 7days 24.13 milk 534 lbs. W. B. Reader, Howell, Mich.

## The Pontiac Herd

"Where the Champions come from"

Offer Bull Calves sired by sons of Pontiac Korndyke, Hengerveld DeKol, Pontiac Dutchland, or Admiral Walker Pietertje.

Do you want a Pontiac in your herd?

Pontiac State Hospital, Pontiac, Mich.

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

Registered Holstein bull calf, born Sept,1917, dam daughter of 24 lb. cow, write for pedige. E. E. STURGIS, R. 3, St. Johns, Mich.

Holstein calves, 25 heifers, & 2 bulls 15-16ths pure, 5 weeks old, beautifully marked, \$25 each, crated for shipment anywhere. Buy only the best, EDGEWOOD FAIMS. Whitewater, Wis.

Parkside Holstein bulls. 8 and 16 mo. Both sired by noted bull, 37 relatives are 30 lb. cows. Priced to sell. J. E. TIRRILL & SON. Charlotte, Mich.

10 bull calves for sale, Perfection Fairfax and Prince Donald breeding.

ALLEN BROS., PAW PAW, MICH.

Herefords Bob Fairfax 494027 at head of herd. 14 bulls for sale all ages either polled or horned. EARL C. McCaRTY, Sec'y Mich. H. B. Ass'n, Bad Axe, Mich.

Choice Bulls ready for service. Also heifers of Royal Majesty. Come and see them or write for particulars. THE WILDWOOD HERD, Alvin Balden, Capac, Mich., Phone 143-5,



Choice Reg. Jersey Bull Calves. 2 bulls 3 mos. old from dams that are doing better than 40 lbs. monthly grandsons of Majesty's Western King Price \$50 reg. & transfered. FRED A. BRENNAN, Capac, Mich.

Maple Lane R. of M. Jersey herd. For sale buils, buil greatest and heifer calves sired by a grand-son of the greatest Jersey bull in the world, Pogis 99th of Hood Farm. IRVIN FOX. R. 3, Allegan, Mich.

JERSEY bull and bull calves for sale from R of M, cows, also heifers and cows of all ages.
C. B. WEHNER, R. 6, Allegan, Mich.

FOR SALE Registered Jersey bull calves.

SMITH and PARKER, R. 4. Howell, Mich.

Jerseys for sale Ready for service bulls.

Majesty, breeding. WATERMAN & WATERMAN Meadowland Farm.

Ann Arbor, Mich. Lillie Farmstead Jersey Cattle. Several heifers bred to freshen next fall. Also a few heifer and bull cal-ves of choice breeding. Colon C. Lillie, Coopersville, Mich.

For Sale A fine, dark, solid color Jersey bull Royal Majesty and out of R. of M. cow. C. & O. DEAKE, Ypsilanti, Mich.

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

#### SHORTHORNS BIDWELL For Beef and Milk.

Registered bulls, cows and heifers-Good Scotch and Scotch-Topped for sale. In prime condition. Modern sanitary equipment. Farm 10 minutes from N. Y. C. depot, 1 hour from Toledo, Ohio. Automobile meets all trains. Write

BIDWELL STOCK FARM, Box B, Tecumseh, Mich.

# Richland Farm

Shorthorns.

IMP. Lorne in Service. Grand Champion Bull of Mich. Special offer on 14 head of Shorthorns. Cows with calves at foot. heiters two years old and heiters one year old. Also a number of Tull calves. We invite correspondence and inspection. invite correspondence and inspection.

C. H. PRESCOTT & SONS.

Farms at Prescott, Mich. Office at Tawas, City, Mich.

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

Fair Lawns Shorthorns Yearling bulls by Canada's best sires: Missie Augusta 605778 and Imp. Newton Frier 528120.

LAURENCE P. OTTO, Charlotte, Mich.

Additional Stock Ads. on Page 567

# Markets.

April 23, 1918.

#### WHEAT.

Reports show wheat stocks to be low and receipts both at country elevators and primary points to be unusually small. The visible supply decreased 266,000 bushels during the past week. A year ago No. 2 red wheat was quoted locally at \$2.61 per bushel. The latest quotations are:

No. 2 red ......\$2.17

#### CORN.

CORN.

Corn values are considerably lower on the Detroit market, but firmer at Chicago than a week ago. Early this week there were signs of an improvement in the demand with the receipts running rather small. Restriction in exports due to the shortage in shipping facilities aids the bears in keeping prices down. Farmers are getting on nicely with their work which increases the probability that the corn ground will be well prepared and that planting will be done at a seasonable time, thereby improving the chances for the 1918 crop. Our records show that a year ago local trade was paying \$1.51 for No. 3 corn. Present prices for cash corn are:

No. 3 corn. \$1.55

#### OATS.

OATS.

Our reports show a slight falling off in oat values this past week. At the opening Monday, however, there was some improvement in the deal, due to rather liberal purchases by agents of our Allies. Stocks in the central western markets appear to have decreased, while seaboard points report large increases. There is a general feeling that this deal will be sustained somewhere near the present basis of values. There is, however, a bearish feature in the large acreage that is being sown in this country, and the unusually early date that this is being done. The visible supply shows an increase ally early date that this is being done. The visible supply shows an increase of a little over 1,000,000 bushels. According to our records, the local market paid 76½c per bushel for standard oats a year ago. The following are the latest prices for cash oats on the Detroit market:

#### RYE.

There is very little doing in this market, millers seemingly not anxious for the grain. Prices have declined during the past week. Present quotations for cash No. 2 are as follows:

Detroit .......\$2.45 Chicago ............\$2.52

#### BEANS.

beans.

This market lacks life, which may be due in part to high prices and also to the crowding of some of the larger markets of the country with other varieties of beans, principally pintos. Most of the stock, however, is now in the hands of dealers. The Detroit price for cash beans is \$11.50 per cwt. At Chicago trade conditions are about what they were a week ago, with the demand slow and offerings fairly liberal. Present prices at that point are: Present prices at that point are: Hand-picked pea beans \$12@13 Red kidney ...... 11@14

#### FEEDS.

There is practically no change in the bran market. The maximum price to consumers as fixed by the food administration is \$31.10 per ton in carload lots, or \$31.60 in less than carload lots, but these prices are not being adhered to by many Michigan dealers. Other feeds in 100-lb. sacks, jobbing lots:

Cracked corn ......\$70.00 Coarse corn meal.....63.00 Chopped Feed ......56.00

#### HAY.

Offerings are large and market is weak. Prices in carlots at Detroit are:
No. 1 timothy......\$23.50@24
Standard timothy.....22.50@23 Light mixed ..... 22.50@23
No. 2 timothy ..... 20.50@23
No. 1 clover ..... 20.50@21
Pittsburgh.—Our correspondent advises us that terminals are still con-

#### POTATOES.

With few exceptions, the markets east of the Mississippi river are steady to firm, with values generally higher than a week ago. Farmers are also securing higher prices at country points. In order to save the surplus potato crop the U. S. Department of Agriculture and the Federal Food Administration now have 10,000 represen-Agriculture and the Federal Food Administration now have 10,000 representatives working in the various cities throughout the United States encouraging the consumption of potatoes. This action should bring about some relief from the extremely discouraging situation prevailing in many notate. situation prevailing in many potato growing communities. Jobbing prices paid at various important markets per cwt. for U. S. Grade No. 1 and the

cwt. for U. S. Grade No. 1 and the condition of trade are as follows:

Detroit (unsettled).\$ 1.50
Cleveland (steady). 1.70
Buffalo (firm) .... 1.50@1.65
New York (steady) 1.67@1.73
Cincinnati (firm) ... 1.55
Indianap'ls (steady) 1.50@1.60
Pittsburgh (slow). 1.60@1.67
At country loading points in Michigan farmers are receiving 70@90c for round whites U. S. Grade No. 1 in bulk; in New York they are getting \$1.25; in Wisconsin 95c@\$1; in Oregon 75c; in Maine \$1.27. gon 75c; in Maine \$1.27.

#### BUTTER.

BUTTER.

Our reports show further improvement in the butter trade. Demand is strong and supply is diminishing. Storage stocks of butter in leading markets show a decrease of nearly 2,000,000 pounds since April 1. Detroit prices are advanced a full cent over a week ago. Extra creamery firsts are generally quoted at 42@44½c, with some houses quoting as high as 45c. Fresh creamery firsts 41½c. The Chicago trade reports moderate receipts and a steady demand. Strictly fancy butter is in specially good demand. Extra fresh creameries 42c; firsts 38@40c; packing stock 30@30½c. New York trade is a little easier, with the creameries at 42@45c.

#### CHEESE.

There is a fair amount of cheese being sold. The older makes are meeting with a good demand, while new cheese is going a little slowly, due to increased supplies. October cheese sells to trade in Detroit at 24@26c, while 22½@23c is being paid for new cheese, which is sold to retailers at about 24c. Dealers claim that they fear the government will undertake to regulate cheese prices, for which reason they are restricting their purchasson they are restricting their purchases. In Chicago Daisies are quoted at  $21\frac{1}{2}$ @21%c for doubles, and  $21\frac{3}{4}$ @22c for singles; Young Americas  $21\frac{3}{4}$ @ 221/4c per pound.

#### EGGS.

higher and firmer while the seaboard cities report a steady trade. In Detroit prices have advanced one cent to 34½ @35c for fresh firsts, while eggs for storage are quoted at 35½@36c. The Chicago trade is paying 32@33c for miscellaneous lots, cases included, and 33@33¼c for fresh firsts. The new York market is steady at 38@38½c for fresh gathered and 36½@37½c for storage packed. storage packed.

#### POULTRY.

Live poultry is in demand and the market is firm. Embargo on selling hens and pullets has been amended to end April 19, so farmers can sell these classes of poultry on and after April 20. Detroit prices are:

#### WOOL

In some of the important sheep states of the west shearing is now in progress. This work will soon be on in the more southern fleece states. A year ago at this date probably more than one-half of the wool in the territory states had been purchased. Practically none has been bought so far this year. This is due probably to the agreement among dealers not to purchase wool before it is removed from the sheep. Independent buyers may take advantage of this situation to influence producers to sell at a reduced price. The scarcity of the wool supply warrants farmers receiving quotations commensurate with the cost of production. The quality of the new clip is reported as being of a higher grade than usual. progress. This work will soon be on

Our market representative found a fairly good trade at the Eastern Market Tuesday morning, with potatoes selling at \$1 per bushel; parsnips 85c; apples \$1.75@2.25; cabbage 75c@\$1; onions \$1.50; carrots 75c; beets 75c; eggs 40c; hay \$24@26 per ton.

#### GRAND RAPIDS

No special change is noted in the potato market except a slightly better inquiry. The movement out of the state to date has been close to 8,000 cars and at present shipments from Michigan average about the same as from Wisconsin and Minnesota. With cars scarce and farmers busy with the spring work, the movement is slow and the price prevailing during the past week has been 60@85c for bulk round white No. 1 stock, trackside at country loading points. Greenville quotes at 90c. White beans are worth \$10.50 per cwt. Reports show a decided slump in the hay market at Portland, Ionia county, prices dropping from \$24 a ton to about half that figure. The Grand Rapids market, up to the early part of this week at least, continued at \$22 @24 per ton. @24 per ton.

#### BUFFALO. April 22, 1918.

Cattle.

Receipts 160 cars; prime grades 50c higher; common 25c lower; prime heavy steers \$15.50@17; best shipping steers \$14.50@15.75; fair to good \$13.50 steers \$14.50@15.75; fair to good \$13.50 @14.50; plain and coarse \$12.50@ 13.50; native yearlings \$14@15; best handy steers \$12@12.50; fair to good \$11.50@12.50; handy steers and heifers mixed \$11.50@12; western heifers \$12 @13.50; state heifers \$10@11; butcher cows \$9@10; best fat cows \$11@12.50; cutters \$7.50@8.50; canners \$6@6.50; grazing cows \$7.50@8; fancy bulls \$11 @12; butcher bulls \$9.50@10.50; com-mon bulls \$8@9.40; best feeders 900 to 1000 lbs, \$10@11; medium feeders \$9 @10: light common \$8@9; stockers @10; light common \$8@9; stockers \$8@9; best milkers and springers \$110 @150; mediums \$75@100; common \$50@60.

#### Hogs.

Receipts 70 cars; market 25c lower; heavy \$18.25@18.50; yorkers and pigs \$18.65@18.75.

Sheep and Lambs.

Receipts 25 cars; steady, wool lambs \$22; clipped \$18.75@19; yearlings \$15.50@17; wethers \$15@15.50; ewes \$14@14.50.

#### Calves.

Receipts 2500; market \$1.50 lower; \$7@15.50.

#### CHICAGO.

April 22, 1918.
Our special representative at the Chicago Stock Yards reports:
Cattle.

Cattle.

Receipts.

Monday, this week......24,000
Total, last week.......78,025
Total, preceding week...69,817
Total, week year ago...48,345
Notwithstanding the greatly increased cattle receipts last week, the strong demand for the better class put them 75@85c, and the bulk of the steers sold 25@50c; while most light lots closed 50@75c below the recent high time, with too large a showing of these. Cows and heifers closed largely 25c lower than a week earlier, and canners and cutters declined 50@75c with bulls off 50c. At the week's close steers sold at \$11@17.25, with the bulk of the week's sales at \$14@16.50. This week a starts off with a further widening out of prices, with choice heavy beeves selling at \$17.35 and over, three cars bringing \$17.50. Butchering cows and heifers are lower, with sales at \$8.10@13.50 and a few at higher figures. Last week a load of fancy heifers broke all past records by bringing \$15.40, but such sales are rarely exceptional. Bulls bring \$8@12.50, and calves have been going at \$8@14.50, while stockers and feeders are taken at \$9@11.60 and a few loads of strong weights taken for a short finish at higher prices. few loads of strong weights taken for a short finish at higher prices

Hogs.

The event in the hog market today is the offering of 72 hogs by as many farmers of Grinnell, Iowa, for sale for the benefit of the Red Cross. Hogs the benefit of the Red Cross. Hogs received last week averaged 242 lbs. There was an early morning top at \$17.85, with a later decline of 10@15c and sales down to \$16.25 for the rough heavy packing lots. Pigs are bringing \$13.50@16.90, with not many offered and recent sales of feeding pigs at \$16.50@17.25. At last week's best time prime hogs brought \$18.05. The prime light hogs go highest and prime heavy ones about 40c below them.

Sheep and Lambs.

Shorn lambs have made a fresh high record by bringing \$18.25, with sales down to \$16.25 for inferior lots. Shear-

ing lambs are taken at \$19.75@21.60 and ewe breeding lambs at \$20.50@21.40. Within a week lambs have advanced largely 75c, with top wooled lots now held at \$22 or more. Shorn wethers bring as high as \$15.60, and a few wooled Colorado yearlings brought \$20 per cwt \$20 per cwt.

### THE GRANGE AND THE RURAL COMMUNITY.

(Continued from page 564).
city, men in the fields and women in the homes are about equally overworked, and now we have our problems. These problems are evident to many public spirited men and women who would help us if they knew how, and at any rate are bound to try.

For a Grange to confine its efforts to the development of the farms in the community, to the matters of coopera-

community, to the matters of coopera-tive buying and selling and to other things that relate only to money get-ting, is to miss the mark altogether.

Let the Grange lead out in the build-ing of communities through which the very best in the lives of young and old shall find expression, and men and women will flock to its gates in great

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between rows. Cut down labor and get better results by seeding between rows with the

Sows clover, alfalfa, turnip, rape, timothy, rye, wheat, oats, buckwheat, etc.—any quantity per acre. 17 flat teeth cover seed thoroughly and made dust mulch, leaving ground flat. Also an idea ultivator. Works close to small plants and kills weeds. In stock near you. Send for catalog.

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## WAR NECESSITY FOR NURSES MET

BY SPECIAL SUMMER CLASS
As a war measure, Mount Sinal Hospital School of Nursing is entering a special class, June 15th, 1918. Recognizing the need for additional nurses for military and civilian purposes, the Mayor's Advisory War Committee of Cleveland, and the Western Reserve University have made this Course possible, the former, by supplying the funds, and the latter by offerning its facilities for a ten weeks 'course in theory. Students will live at the hospital which is doesn't be charged for the Curve of the University. Living expanses the course of the University. Living expanses plan offers unusual opportunities to qualified young women wishing to serve their country. Applications should be made at once to Miss C. A. Wheeler, Principal of Mount Sinai Hospital School of Nursing, 1800 East 105th Street, Cleveland, Ohio.

# **EMPTY EGG CRATES**

#### FOR SALE

Used Only Once. Good Crates with Fillers.

Hamburger Bag & Egg Crate Co., 375 Bellvue Ave., Detroit, Mich.

Production well started, general quality, fine. For a few months it will be hard to get any premium. Will do best can although may have to stop paying premiums until loss off season sets in.

AMERICAN BUTTER & CHEESE COMPANY,
Detroit, Mich.

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

12 Trees Lombard Pl., with Premium Rose St. All Only \$3 nice 2 pr. medium trees, on half cherry. GOBLEVILLE, MICH. NURSERIES.

#### THIS IS THE LAST EDITION.

The first edition is sent to those who have not expressed a desire for the latest markets. The late market edition will be sent on request at any

#### DETROIT LIVE STOCK MARKETS

Thursday's Market. April 25, 1918. Cattle.

The cattle trade this week was fairly active but at a decline of 25@50c from last week. Unusually high market, bulk of the decline was on canners while prime steers and butcher grades dropped about a quarter and bulls held full steady. Prices held strong at the decline all the week the quality was fair.

fair.

Receipts 2109. Bulls steady, canners 50c and other grades 15@25c lower than last week.

\$14.00@14.50

Best heavy steers.....\$14.00@14.50
Best handy wt. butch. strs 12.50@13.50
Mixed steers and heifers.. 11.50@12.50
Handy light butchers... 9.50@11.00
Light butchers ..... 8.50@10.00 Light butchers ..... 

 Canners
 7.00@ 7.50

 Best heavy bulls
 9.50@10.00

 Bologna bulls
 8.50@ 9.25

 Stock bulls
 8.00@ 8.50

 Milkers and springers
 55.00@ 100

Mikers and springers... 35.00@ 100 Sales.

Butchers.—15 av 748 at \$10.25; 10 av 934 at \$12.60; 17 av 775 at \$10.50; 16 av 808 at \$9; 10 av 713 at \$10.90.

Stockers.—9 av 600 at \$9; 29 av 500

Steers.—4 av 850 at \$10.25; 15 av 1000 at \$13.75; 10 av 1040 at \$13.35; 12 av 666 at \$11; 19 av 1016 at \$13.40; 20 av 842 at \$12. Veal Calves

Veal Calves.

Veal Calves broke bad and were from \$1@1.50 per cwt. lower than last week and very dull at the decline; a few extra good sold at \$14.50 and an occasional small bunch at \$15@15.25, but the bulk of sales for good was at \$13@13.50, with common and heavy at \$3@12. Indications are that prices will continue to drop. Receipts 1104. Market dull at \$1@

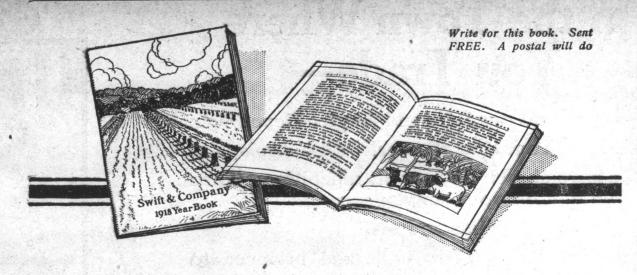
1.50 lower than last week. Sheep and Lambs
Sheep and Lambs
Sheep and lambs were scarce and sold fully steady with last week.
Receipts 1425. Market steady.
Best lambs
\$17.75
Fair lambs
\$15.50@16.00

#### All grades .....\$17.25@17.35 HYGIENIC SIDE OF LABOR SAVING.

(Continued from page 547). as effectively during the years, say from forty-five onward until death claims them.

Consequently, it follows that it is good insurance to invest in anything which has a distinct value in the way of saving labor on the farm. This applies both to those who work in the field and to those who work in the home. And how many farms there are on which considerable labor-saving can be effected at comparatively little expense. The proper piping of water, for instance—both into the house and into the barn-is but a single example. There is drudgery in carrying water. Every day it adds steps and consumes strength. Almost anyone could dis cover similar means of promoting efficiency on any farm. There is a certain amount of such drudgery which may not be eliminated but there is lots of energy wasted, on the other hand, which might be conserved. And it is this same drudgery which wears men and women out before their time. Of what value is length of years if the last half of life must be spent in dragging about because one's frame has worn out and one's strength become

Illinois. ORIN CROOKER,



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Shorthorns Four very desirable heifers 17 to 21 months old, and bull 8 mo. All roans. Price \$1000.

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SHORTHORN: 1 buil 5 months old. 1 heifer 14 mos.

Sold Registered in buyer's name, \$100 if taken scorn.

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SHORTHORNS-20 bulls 2 to 18 mos., mostly from Dorthy's Sultan 463045, a grandson of Whitehall Sultan, also a few cows. C. Carlson, LeRoy, Mich

Bairybred Shorthorns of best Bates Strains, young stock of both sexes for sale.

J. B. HUMMEL, Mason, Mich.

Scotch Shorthorns for sale, 5 bulle John Lessiter's Sons, Orion, Mich., R. F. D. COLLAR BROS,

\$125 a month and expenses to start; short hours; travel; three months home study, under guarantee; we arrange for position. No age limit. Ask for booklet L28. FRONTIER PREP. SCHOOL. Buffalo, N. Y. herd catalog malled free. Horrleton Farms, Hart, Mich.

Registered Shorthorn bull for sale 7 mos. old, also bull calf; roams.
WATERSTRADT BROS., Marcellus, Mich.

Winona Pet No. 214312 Butter yrs. milk 545.30. She is the dam of a bull lealf born Sept. 17th we are offering for sale. His sire is from 23 ib. four year old and 30 lb. sire. Calf is straight as a string and all right in every way. Price \$125, Also one heifer. Jay B. Tooley 5 Howell, Mich.

Red Polls One yearling bull. Also bull calves by Lincoln Lad 2nd. For prices and description, write Wells Parish & Sons, R. 3. West Olive, Mich.

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year show you any number 1, 2 and 3 years old fron
600 to 1200 lbs. Issae Shaastum. Fairfield, Lowa, R-8 For Sale Young bulls eligable for registration JAMES NEAD, Sunfield, Mich.

Guernseys-For sale, animals of both sex from A.R.cows. Prices reasonable. Geo. N. Crawford, Holton, Mich. HOGS .

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Now offers for sale a few choice Holstein bull calves, from high testing dams, with good A. R. O. records, at farmers' prices, write us about them and our

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Additional Stock Ads. on Page 563



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