

The Only Weekly Agricultural, Horticultural, and Live Stock Journal in the State.

DETROIT, MICH., SATURDAY, MAY 25, 1918

Do You Think the Consumer Understands?

By R. G. KIRBY

HE success of the country in the war depends a great deal on the ability of the people of the country to work together. Now is the time East Lansing, the first conference was country and the city workers and prowhen producers and consumers of farm

ings might be eliminated if all farmers' newspapers with honest reading mat- derstood the situation they were will- the farming business even though the ter concerning the complex problems with which the producers of farm crops are confronted.

Any attempt to divide the country into producers and consumers must recognize the fact that the essential producers of the country are not all in the country. Farmers must have tools. clothes and household utensils made in the cities. The city producers must classed as hoarders and slackers. They farmers. do not stop to consider that all the

their wheat, either through patriotism or necessity and they do not realize that very few farmers are financially able to hoard their crops with notes, mortgages and household bills coming due.

While trading in a store in a nearby city a young lady volunteered the information that farmers were slackers in their purchases of Liberty Bonds. The writer furnished some proof to the contrary but did not blame the young lady for simply advancing an idea which had been passed on to her by others even less informed. The public press is now giving the farmers in many districts full credit for their patriotic responses in buying bonds, but for a time the farmers were placed in a decidedly wrong light by some daily papers which misrepresented them. A publicity campaign by farmers' organizations might assist in blotting out the prevalent idea that all farmers are more or less alike. If an insurance agent on a street car made unpatriotic remarks about the government,

organizations could cooperate in a pub- more friendly in their attitude toward of time. licity campaign that would furnish city the farmer's demands. When they un-

classed as a stormy session. The first ducers in the city. Men in the cities out of the farm twice a day without it products should make an effort to un- articles in some daily papers placed who are only consumers will need little and the city buyer can afford to have farmers and their affairs. Later, when today, who is only a consumer and pro-

The farmer tries to understand the needs of his city cousin through the dealer. * * * The city resident endeavors to get an idea of the farmer's problems through the same dealer. * * . * * There perhaps may be a tendency on the part of the dealer to blame his own shortcomings on the absent part. * * * If producer and consumer of farm crops had a true understanding of each other's problems, would we not be nearer to a rational solution of the distribution question?

derstand each other's problems. It is the farmers in a bad light and these attention in this day and age except know the cost of raising feed for the costing a cent. Of course, she does not certainly not a time when the farmer articles were decidedly hostile to the from the police department. The man, dairy herd and appreciates none of the problems of the dairy business which a hostile attitude toward each other, the newspaper men had the situation duces nothing, can never understand are so evident to the farmer that they Many of the present misunderstand- explained to them, the attitude showed the problems of any kind of a producer need little discussion. Mrs. B. buys a a marked change and articles were far and talking with such people is a waste few dozen eggs and figures that Mrs. A. is certainly earning a pretty good The consumer does not understand wage per hour, "just going around picking those eggs out of the nests." Mrs. B. does not know the cost of feeding poultry but she does know that five dozen eggs take several hours pay from her husband's weekly check. The proposition is not all one-sided.

Mrs. B. from the city and they discuss

the cost of milk. Mrs. B. states how

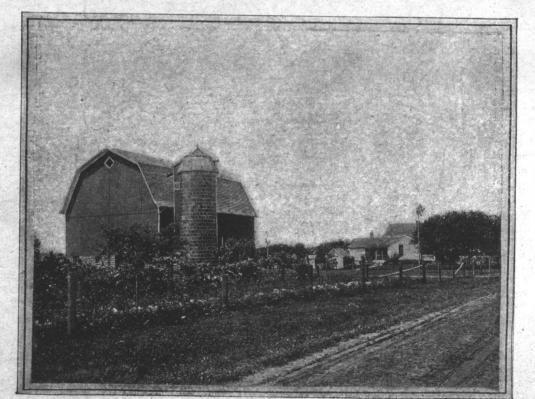
much she pays for milk and says that

Farmers do not understand the worry which attends the life of many a worker in the city whose earnings barely cover the weekly expenses. The long hours on the farm frequently impose have food. Both the city worker and ing to be fair. How can farmers ex- product of that business is keeping less hardship on the physical being of the farmer should work hand in hand pect fair treatment from the average him alive. Of course, he is busy in his a man than shorter hours under less with a clear understanding of each oth- city daily reporter who knows nothing own line of work and cannot be expect- favorable conditions in an office or facer's problems. Right now there is a about actual farming conditions? He ed to make a study of farming. How- tory. The food problem of the farmer tendency for city men to think that seldom meets and talks with real farm- ever, he can learn enough about food is more easily solved than the same farmers are in a preferred class. One ers but comes frequently in contact production to take a sensible attitude problem in the city. In addition, there farmer in a district hoards a little with men who are ignorant of farming toward farmers and the daily papers is always hope on a farm. Crops may wheat and immediately all farmers are conditions or are actually hostile to should do something to bring about be better next year and the additional that instruction. City buyers of farm income may bring many conveniences. The county agents are increasing in produce do not read the farm journals A city man who cannot get ahead beother farmers in that section have sold number and efficiency throughout the and so these reliable organs of inforcause of his position in life does not

have the same hope in the future. He knows how much he will earn next year and how much he will spend and there can be but little hope for better conditions in the homes of many city men. Of course, individuality and personality along with training and natural advantages, influence the life of every man. However, taking city men and farmers and comparing them, man for man, will prove that many of the farmers are better off than they ever would have been if they had been city producers instead of farm producers. They should understand each other better for the good of the country.

Mr. C. B. Cook, county Agent for Oakland county, recently stated in the Michigan Farmer, "The agitator who seeks to profit by emphasizing class divisions rather than to seek harmony on a "square deal for all basis" is playing into the hands of America's arch enemy." There must be no class troubles in America. The city and country population need each other as never

when they have someone to help them



Home

he would be harshly treated as an indi- state and they have an opportunity to mation are largely confined to the before. vidual but other insurance agents furnish the daily papers in their com- farming districts. The problem of uni- ceive access to the daily papers in such would receive no stigma from the af- munity with reading matter concerning fying the people of the country and in- a way that he will be able to bring the fair. If a farmer had made the same the farming business. They will miss creasing the friendly spirit of coopera- city people and their country friends. treasonable utterance the daily papers an opportunity if they do not use their tion between city and country people closer together. The city friend and would have emblazoned a column with space and their ability to bring about is a worthy project in which all Amer- the country friend will be reasonable the disloyalty of farmers as a class. a better understanding between the icans should take part. At the potato growers' meeting at farm workers and producers in the Mrs. A. from the country calls on to understand each other.

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DETROIT, MAY 25, 1918



CURRENT COMMENT.

In the observance of Memorial Day. Memorial Day this year, we will pay trib-

ute not alone to the soldiers who died for their country in past wars, but as well to the brave boys who have alwhich our country is now bending its every energy.

Sleeper, in designating Thursday, May 30, as Memorial Day, have expressed the hope that the day will be observed in a manner consistent with the spirit of the occasion. In addition to being a day given over to the honoring of our soldier dead, it should as well be a day for the rededication of our strength and service, the renewed consecration of our every effort and resource to the support of our fighting forces.

The proclamations above mentioned earnestly request the people of Michigan to observe this day as a solemn festival and to gather in their accustomed places for worship and there offer their prayers for the victory of the American armies, that a just and lasting peace may be established throughout the world.

Drive.

The Red Cross drive The Red Cross for a fund of \$100,-000,000 as the goal for the country should ap-

peal to every citizen in every walk of The work of the Red Cross is so well known that comment on its importance is superfluous. It is work which every citizen will be glad to support by contributing to the limit of his ability to this fund. A contribution to the Red Cross means lessening the hardships, alleviating the sufferings and saving the lives of our boys who are fighting the battles of liberty in France and Belgium.

With our boys now going to the front line by the thousands every week, there to fight our battles and many of them to lav down their lives in the defense of their country's honor and for the maintenance of human liberty in America as well as in the rest of the world, each and every one of us should be not only willing but anxious to do our utmost to aid in providing for them

measure.

women are giving their time as well as obtainable from other feasible sources. their means to this great cause, let those of us who are not in a position to give any such full measure, particularof our time, give of our means to the very limit of our ability. If we have not already subscribed as freely as our conscience dictates that we ought, let us improve the opportunity before this great drive closes on the twenty-seventh of May.

In the building of a per-Live Stock manent agriculture Problems.

essential factor. While there is no doubt that the fertility of the soil can during recent years, and of the condibe maintained without the keeping of live stock, it is generally conceded the country, invariably lead to one conthat this desirable result can be best accomplished under a system of mixed farming in which live stock is made a

tained during the past year. The gen- has been for some time. eral failure of the Michigan corn crop to mature sound grain has contributed have deemed it necessary to sacrifice

necessary for their maintenance is enjoys more hours of freedom from his ready fallen in the present conflict in when it is considered that the well- to sell and his markets have improved balanced Michigan farm, the one which as they seem certain to, his income Both President Wilson and Governor run is the farm on which live stock is warrants judicious investments at the made the basis of permanent soil fer- present time in those things that will

the humanitarian service which the which there is but a single answer, and Red Cross is giving in such full in increasing the foundation stock we easure.

Wednesday, May 15.

Civil war reopens in Russia with
while thousands of loyal men and produced upon the farm or which is
omen are giving their time as well as obtainable from other feasible sources.

Wednesday, May 15.

Civil war reopens in Russia with
fighting at Moscow between Bolsheviki
one are giving their time as well as obtainable from other feasible sources.

> The Agricultural not at this time take Outlook.

tions imposed upon us by the international crisis through which the nations of the world are passing, but our young farmer, in particular, is contemplating investments in land, buildings or equipment, and he is debating whether the future outlook of agriculture warrants making investments that will merely serve him temporarily or whether he should place his capital into permanent improvements. Any careful analysis of changes in American agriculture of the world are passing, but our young in serve him temporarily or whether he Michigan live stock has should place his capital into permanent ever been considered an improvements. Any careful analysis of changes in American agriculture tions that now confront the farmers of clusion-that the future farmer will work with larger power units and follow standardized methods of operation. This means increased produc-The balance of our live stock production per individual farmer. The Amertion has, however, been not a little dis- ican farmer is already the most effiturbed by conditions which have ob- cient in the world in this regard and

Previous to the outbreak of the present European war ten million Amerilargely to this result. Many farmers can farmers in the Mississippi Valley can farmers in the Mississippi Valley produced more food units than did twenty-six million farmers in Germany. And now the increased shortage of farm labor and the unprecedented demand for agricultural products are urging him on to still greater attainments. That he will succeed under this new pressure, everyone seems to have confidence. They believe that he will produce these additional units with little or no added discomforts to himself, the same as the farmer of toat least a portion of their breeding twenty-six million farmers in Gerstock under existing conditions. There many. And now the increased shortis no doubt but that in the majority of age of farm labor and the unprecedentcases this should be looked upon as a ed demand for agricultural products temporary expedient rather than a per- are urging him on to still greater atmanent policy, and the earliest prac- tainments. That he will succeed unticable opportunity of adding new foun- der this new pressure, everyone seems dation stock to bring the flocks and to have confidence. They believe that herds up to their desirable standard he will produce these additional units It may be difficult for many of us to himself, the same as the farmer of torealize the soundness of this argument day grows double and treble what his when both foundation stock and grain forefather did and at the same time selling at unprecedented prices, but labor. And when our farmer has more will yield the best profit in the long should be increased to a point that tility, the problem becomes one for contribute to his efficiency and comfort.

HAPPENINGS OF THE WEEK

Perhaps we should not at this time take our minds from the duties and obligaon us by the internasenting votes.

Thursday, May 16

Friday, May 17.

Italian troops launch a drive on Asiago plateau between Mont Asalone and Mont Pertica, compelling Austro-German forces to give way. This thrust is presumed to anticipate the unofficially announced drive by the Central powers on the Italian front.—In France on the Somme front American gunners the Somme front American gunners are battering lines of transportation being used by the Germans, and also have fired Montdidier.—Aerial fighting is becoming more active and large numbers of planes are being brought down on both sides. Announcement is made of a complete American air squadron in operation at the front.—Russian naval officers blow up submarines to prevent their falling into the Somme front American gunners

licensed after June 1.

Saturday, May. 18.

Aerial fighting continues active, 40
German planes being brought down by the British in the last twenty-four hours, while five British machines are missing. During March and April the French destroyed 322 enemy planes and lost ninety-six.—Emperor William is reported on the western front.—Every district in the third Liberty Loan Campaign over-subscribed its quota. The total number of subscribers is about 17,000,000.—Steel committee of the War Industries Board suggests that the supply of steel in the United States will be taken over by the government unless the output is immediately increased.—The cost of the United States Food Administration has jumped from \$2,500,000 to \$12,000,000.

The president of Portugal has formed a new cabinet.—Requests for free Saturday, May. 18. —The president of Portugal has formed a new cabinet.—Requests for free beds in Detroit missions have been reduced forty per cent since the state went dry. —An explosion of the deadly T. N. T. at Oakdale, Pa., results in fifty-six known fatalities and an estimated property loss of \$1,500,000.

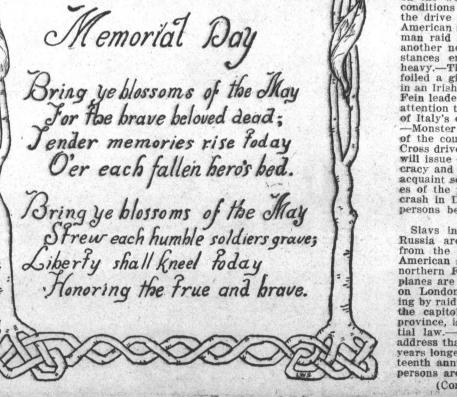
Sunday, May 19.

Hindenburg armies are now fully reorganized for their third gigantic blow on the western front and if weather conditions permit, the Allies anticipate the drive during this present week.—American forces defeat a vigorous Ger-

the drive during this present week.— American forces defeat a vigorous Ger-man raid in the Luneville sector and another near Montdidier. In both in-stances enemy's losses are reported heavy.—The British government has folled a gigantic German plot to assist in an Irish revolt, by arresting 500 Sinn Fein leaders.—President Wilson brings attention to May 24 as the anniversary attention to May 24 as the anniversary of Italy's entrance into the great war. —Monster parades in the various cities of the country open the national Red Cross drive for \$100,000,000.—Michigan will issue a text book entiteld, "Demo-cracy and the Great War," which will acquaint school children with the causes of the present world war.—Trolley crash in Detroit results in twenty-one persons being injured.

Monday, May 20.

Slavs in the Ukraine provinces of Russia are burning food to keep it from the Germans.—Great camps of American soldiers are springing up in northern France.—Four German aero-planes are brought down during a raid on London; British aviators retaliat-ing by raiding German towns.—Prague, the capitol of Bohemia, an Austrian province, is reported to be under martial law.—Gerard declares in Detroit address that war will last at least two years longer.—Cuba celebrates her six-teenth anniversary as a nation.—Four persons are being held as suspects in (Continued on page 666).



Bean Anthracnose Is Losing Its Grip

subjects, there are none, unless it be the potato problem, mention of which will precipitate an argument among Michigan farmers more quickly than the bean topic. The reasons, of course, are patent to every observer of agricultural conditions within the state, for they are to be found in the fact that as a result of two bad seasons and competition from the much advertised but certainly not over-palatable "pinto," the Michigan bean has been suffering a bad attack of adversity. Here and there farmers who have happened to strike it right have made a killing in this crop, but among growers as a whole beans have not been an overly lucrative source, either of food or income for some little time.

It may be expected that these recent experiences with beans will discourage many producers, but be that as it may, there unquestionably will be many others who are counting on these withdrawals to improve their own chances with the crop, for it is more or less of a business axiom that the man who has a good crop of corn or beans when corn and beans are short, is going to make a good thing out of it.

But irrespective of what market conditions may be, the farmer whose crop is wiped out by diseases will not find beans a very profitable source of income on any occasion. Some interesting information on this point is contained in an article recently prepared for the press by Dr. G. H. Coons, plant pathologist for the experiment station of the Michigan Agricultural College.

Anthracnose Not in Evidence. Perhaps Doctor Coons' most important declaration is that there apparently has been a weakening of the grip anthracnose has heretofore had on the bean crop. Only a relatively small percentage of the seed bean stocks seem to be infected this spring, he de-

HEN it comes to inflammatory The Inspection of Samples of Seed Beans by the M. A. C. whatever it pleased without any dan-Shows the Disease to be Less Prevelant than Usual

> clares. On this point he adds that if spread of these insignificant germs. farmers will make a careful selection control.

> way of bean diseases in 1918?" Doctor stalk to the young unfolding leaves, the weather. This has been said so plant to plant. often that it may sound like an old

> cle would not be written for no one has mentioned to show that rain does not yet found a way to control the weath- cause anthracnose, but only spreads it. er. There is, however, another side to Without the germ there would be no be considered.

Watch the Germs.

"The nigger in the wood pile in this instance happens to be a germ. Plant in so far as it aids in the growth and out the germ, the weather could be

"Take bean anthracnose, for examof their seed this season, and will plant ple. Here we are dealing with a disonly absolutely clean beans, anthrac- ease carried in the seed to the field nose can be brought practically under and brought above the ground when the first seed leaves push out. Rain "What may the farmer expect in the serves to carry the disease down the

Coons asks. "To begin with," he goes and rain also serves to wash the germs on, "bean diseases are not caused by from the leaves to the pods and from

"The transfer of bean anthracnose, story to many farmers, but there are aside from that which comes from culstill numerous others, who, seeing the tivating beans while wet, is wholly a direct relation between weather and matter of how far the rain can splash. disease epidemics, blame the whole If beans are grown in a greenhouse matter on rainy seasons, and stop at and instead of being watered are irrigated they can be grown with abso-"If the trouble ended there, this arti- lutely clean pods-a point which is

> the disease can be controlled. Disease-free Seed.

"And so with other bean diseases. diseases are caused by germs, and the They are seed borne and greatly influweather is concerned in the case only enced by the rainy weather. Yet with-

disease. If the germ can be controlled

ger of its making the beans blighted or spotted.

"It is this last statement which gives us justification for making predictions for 1918. A farmer will certainly have disease in his fields if he plants diseased stock. If he can get disease-free seed then he will have no trouble.

"This matter is not so simple as it sounds, for the problem is to get disease-free seed. Probably there is not a bushel of such seed to be found in Michigan. All the farmer can do under the circumstances is to try to secure disease-safe seed.

Difficult to Secure.

"The present year is ideal to secure disease-safe seed. As a result of the last two dry summers the percentage of anthracnose has been reduced so that judging from the thousand samples of beans that have been analyzed for disease by the department of botany it is safe to say that not one sample in fifty shows heavy infestation from anthracnose, and in fact many are totally free.

"Anthracnose is now in retreat, but if wet weather keeps up this year it can make a stand and entrench itself as firmly as ever. The time is opportune to get rid of this old enemy. It is wholly an individual problem.

"If I were going to plant beans this spring I would get seed stock free from weathered beans and as clean and dry as possible, and then I would have the beans picked to absolute cleanness. Every bean should be looked at and all with spots or stains should be thrown out. The women in the home who have registered for war service can do no better work.

"It is true that there still will be a little blight left in the seed and the crop may show some leaf trouble, but with the ordinary clean sample, such as grew last year, close picking will absolutely remove anthracnose."



If you Use Caution in the Selection of Bean Seed you May Rid your Fields

Emergency Supply of

for replanting

ual, and in spite of such precautions. Of course, climatic and soil condi-medium yellow dents. as testing and the like, a considerable amount of the seed put into the ground this season has been weak. More than the usual number of fields have failed to come up, while in many more the stands are unusually poor-meaning that replanting will have to be practiced, and in fact is being practiced on a much larger scale than ever before.

It is in Toledo that the federal seed corn reserve for this district has been established. A farmer, for instance, who concludes after ten or twelve days that his corn is not coming up and decides to replant needs only to see his county agricultural agent and leave with him an order (and the cash) for the amount of seed he requires. Or if the farmer resides in a county where there is no agent, he can write direct to the corn reserve headquarters, (A. J. Pieters, care R. T. Miles, 2009 Second National Bank, Toledo, Ohio): Where this is done, the checks should be made out to "Disbursing Clerk, United State Department of Agriculture." The corn itself must be ordered only in lots of at least two bushels. An order

OOPERATION with the farmer can be sent in, that is, for two bushels, tions vary appreciably in the different

has been extended this spring by four bushels, etc., but not for three parts of the state-but this factor has follows: the government to the matter of bushels, or five bushels. This is be- also been anticipated and a number of providing corn to meet the emergency cause the bags hold two bushels and different corn varieties provided. These serve for replanting purposes is an press charges on this should not run "D" are types that will make good sil- long, having rather small cobs and

In detail, these differences are as

A .- Medium Yellow Dent.

This corn was grown in Delaware calls being made for a supply of seed cannot be broken. As a governmental varieties, according to the Michigan on light land and matures there in 100 enterprise, the corn is, of course, be- Agricultural College, have been class- to 110 days. As grown in Delaware the The establishing of a seed corn re- ing sold at cost (\$5.10 a bushel). Ex- ified as A, B, C, D and E. "A" and ears are about seven to nine inches elaboration by the state and federal over forty, fifty or sixty cents a bushel age in southern counties, and might shallow kernels. Stalks are of medium authorities of the arrangement by to any of the corn districts in Michi- be good for grain in a long season, size and about eight to nine feet high. which the government was able during gan. Orders can be filled in one, two while "B" and "C" are types especially This corn is not of a pure type but the past spring to bring in corn to cov- or three days. depending upon the re- adapted to Michigan. The varieties in- runs faily even for common yellow er up Michigan's shortage. But as us- moteness of the purchase from Toledo. cluded under "E" are mixed early and corn. This corn is thought by experts of the Ohio Experiment Station to be suitable for the production of ear corn in Ohio. Indications are that on well drained land and under favorable conditions it may mature in the southern tiers of counties in Michigan. For ensilage purposes in southern Michigan this corn is probably superior to any other corn available this year from outside that state.

B.-Early Yellow Dent.

This corn was grown on very sandy land in Delaware and matures there in ninety to 100 days. As grown in Delaware ears are six to eight inches long, having small cobs and shallow flinty kernels but it is not a true flint corn. Stalks are slender, about seven feet high. This corn is not a pure type but is variable as to color, size and flintiness. It is, however, the earliest yellow dent corn available now in quantity. The fact that larger and later corn grows on the same soil as this early yellow dent indicates that this corn is an early type.

C .- Early White Dent.

This is a flinty dent growing on sandy soil in Delaware and of about

Boys' Working Reserve Making Good

U. S. Boys' Working Reserve, Michigan Division, Detroit.

I am delighted to inform you that the young man you first sent me has proven to be one of the best men we ever had on

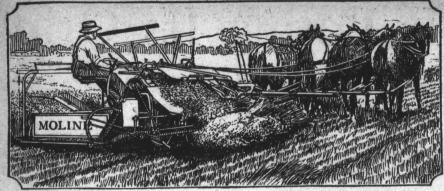
The second boy that is now working in the cow barn, also seems to be working out fine. He had had little or no experience in milking or with cows and the foreman of the cow barn is rather impatient, but I think he is working out fine, and will be glad to let you know just how he does do.

The other young man is an excellent example of what you can furnish the farmers.

He is intelligent, clean, interested in his work, anxious to learn, and he already had a very good working knowledge of gas engines and other machinery so that, as I stated before, he has proven to be one of the very best men we have ever had.

I thought this information would be valuable to you and you are at liberty to use it in any way you choose, of course.

Very truly yours, (Signed) E. LEROY PELLETIER.



The Moline Grain Binder

The Best Work Under the Worst Conditions

MOLINE LINE

HE Moline Binder has a record of of over 50 years of good, honest service wherever grain is grown. In difficult work, in continuous running without stops or breakdowns-in short, in an emergency, Moline superiority is

The Moline Grain Binder is built from the ground up of the best materials by skilled workmen and has been gradually developed and improved until it is as near perfection as possible. It is built

to do the best work even under the worst conditions. That's why a Moline Binder user is never satisfied with any-

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When you buy a Moline
Grain Binder you get the
benefit of 50 years' service, the lightest draft, the greatest stability. the strongest construction and the greatest reliability in a grain binder-

A typical instance of Moline performance under unusual conditions is reported by Jerry Rivard of Boubonais, Ill., as follows:

The Moline 8-ft. Binder bought of you I used in cutting 110 acres of grain. I cut seven acres of new ground where I did not think it could do the work, being very trashy ground, and the men present insisted I was doing wrong to try to cut it with a binder, but the Moline Binder wenthrough, cutting all. I never missed a bundle and never broke anything. I consider this remarkable, considering the condition under which the test was made.

We have many letters such as this on file, all equally enthusiastic over the work of the Moline Binder.

The frame of the Moline Binder is extra strong, making it particularly good for tractor use.

See your Moline Dealer about the Moline Binder now, or write us for full information.

WILL YOU TAKE A

On 10 Days Free Trial?

the same size and earliness as B, but are not at all flinty. the corn is white and uniform in color. E .- Mixed Early and Medium Yellow D.-Medium White Dent.

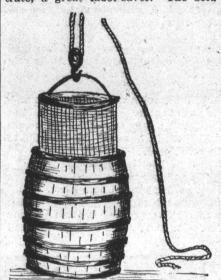
quite flinty while on other ears they dent ears mixed with the larger corn.

Dent.

This is larger and somewhat later A number of cribs in Delaware conthan C, and of about the size and ear- tain mixtures of medium and early yelliness of A. It is uniform as to color low dents. In most cases the prevailbut not as uniform as to type as is C, ing type is the medium dent with ten some ears having kernels that are to fifty per cent of early and flinty

Practical Suggestions

TREATING POTATO SEED.



one side to form a clapper. On the bottom of a stick, or handle, is fasten-Where treating potatoes by the im- ed a board a half-inch smaller each mersion method, growers will find the way than the size of the pump body. plan which I have endeavored to illus- On the top side of this is fastened at trate, a great labor-saver. The solu- the center a piece of leather the exact size of the inside of the pump. This affair acts as the plunger and should lay near the bottom of the pump on the down stroke. Spout is made as shown in the sketch. A piece of wire strainer can be tacked on the bottom. -C. E. R.

CHICK WATERING FOUNTAIN.

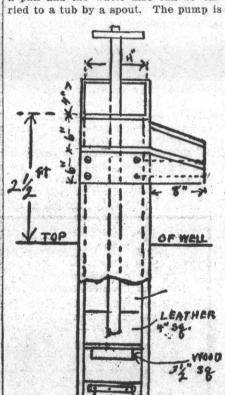
Here is a little water fountain which is as handy as the proverbial pocket in a shirt. We have several of these home-made fountains which are used in the brooders for the chicks.

They are made of one-gallon and half-gallon friction top tin cans. The can has a slit cut one inch from the bottom about two and a half inches long for the gallon cans. The tin just above the slit is bent into the can, then a narrow piece of tin is soldered

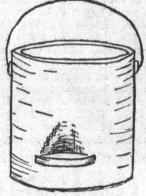
tion is placed in the barrel. The potatoes in bushel lots, are dumped into the wire cage, raised by means of rope and pulleys and then lowered into the solution for the required time. They are then pulled out by means of the rope and arranged to dry while another batch is treated.—D. K.

SHALLOW WELL PUMP.

For wells not more than six or eight feet deep, and springs, a handy pump can be made. By its use it will be considerably easier than dipping out with a pail and the water also can be car-



made of three-quarter inch planed boards nailed or screwed together to the triangular end pieces prevents the make a box arrangement about two troughs from being tipped over in the and a half feet longer than the well is litter in the brooder. The ends may be deep. At the bottom on the inside a made of wood if desired. Put a piece seat, "A," is formed by screwing on of No. 9 wire across the top (C), to four strips of wood. On one of these stiffen the ends to facilitate handling, a square piece of leather is screwed on -J. L. J.

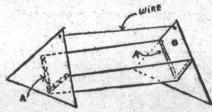


across the top of the part shown at (A) so as to come a little above the bottom of the bent-in part. The top is sealed up by soldering around it. With the bail on the can it is convenient to clean and refill.

FEED TROUGHS.

The little troughs shown in the drawing are mighty handy to have for feeding the young chicks in the brooders. They are made of light tin and can be made by a boy handy with a tin shears and a hammer. The most convenient sizes are from eight to twelve inches long.

The trough is made of a flat piece of tin, bent up in the center. At each end where it is bent in the center snip out



a triangular piece and bend up about an inch of the tin as shown at (A), and punch little holes in it so it can be riveted to the end of the trough (B). Now cut out the end pieces (B) triangular in shape and rivet them onto the trough. The wide bottoms formed by

Corn Planters. Cotton Planters. Cultivators. Corn Binders. Grain Drills. Harrows. Hay Loaders. Hay Rakes. Lime Sowers. Listers. Manure Spreaders. Mowers. Plows (childed and steel). Reapers. Scales. Seeders. Stalk Cutters. Tractors. Farm Trucks. Wagons and Stephens Salient Six Automobiles. you get crop insurance. MOLINE PLOW CO. MOLINE, ILLINOIS MANUFACTURERS OF QUALITY

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Send for complete color cards show-ing full line of colors and instruc-tions, also special free offer.

THE BELL PAINT CO., Dept. G, Cleveland, Ohio

THE SELF-OILING WIND

has become so popular in its thousands have been called for old towers, other makes of mills small cost, the gearing of the earl Aermotors, making them self-oiling. Its enclosed motor keeps in the oil and keeps out dust and rain. The Splash Oiling System constantly floods every bearing with oil preventing wear and enabling the mill to pump in the lightest breez. The oil supply is renewed once a young to the supply is renewed once a young the make Canada and the supply is renewed once a young the make Canada and the supply is renewed once a young the supply is renewed once as young the supply in the supply is renewed once as young the supply is renewed once as young the supply is renewed to supply it is not supply in the supply is renewed to supply it is not supply in the supply in the supply is renewed to supply it is not supply in the supply it is not supply in the supply is renewed to supply it is not supply in the supply it is not supply it is not supply in the supply it is not supply it is

Write AERMOTOR CO., 2500 Twelfth St., Chicago

Farms and Farm Lands For Sale

25 Acre Equipped Farm \$1500
Splendid one man farm, near neighbors, a mile to school and only 1½ miles to live town with railroad, high school, stores, churches, etc. Good tilliage, riverwatered pasture, about 200 cords wood, some fruit. Good comfortable house, 40 ft. barn, ice house and poultry house. Invalid owner's low price \$1500. If taken soon he includes cow, yearling calf, hens, wagon, art, harness, mowing machine, horse rake, plow, harrow, cultivator, small tools and growing crops. For details see page 12 Strout's Gatalog. Copy mailed free.

E. A. STROUT FARM AGENCY.

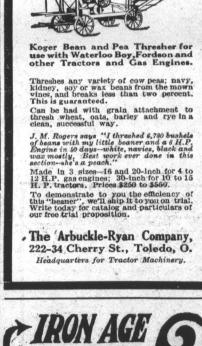
Dept. 101, 150 Nassau St., New, York, N. Y.

320 Acres, in solid chunk, 250 acres cleared and under cultivation, good clay leam soil, lays nearly level, well drained, 60 acres not cleared good hardwood timber, also good pasture, small stream through one corner, on main road, five miles to good town, good ten-room frame house with good basement, good barn 10.0 x 60 with basement, all necessary outbuildings, well and windmill, water to both house and barn, good orchard, close to school, buildings painted, free and clear of incumbrance, crops go with place, and should bring four to five thousand deliars this fail. Price \$50 an acre, half down and any ressonable time on the remainder.

Write W. F. UMPHREY, Evart, Mich.

FARMERS: Come up and let me sell you a farm on our Grand Old Prairies. No stumps or store, GREATEST GRAIN & STOCK COUNTRY IN THE WORLD. One good crop puts you on Easy Street. U. S. Needs Food, prices are high, big profits accordingly. Do Your Bit. Write J. B. STREETER. Devils Lake, N. Dak.

For Sale Avery 5-10 Tractor ith 2 bottom plow, both in first class condition. Price 500. Have bought larger Avery Tractor which is the eason for selling. Lewis Barnard, R. 5, Clare, Mich



Farm, Garden and Orchard Tools
Answer the farmer's big questions:
How can I grow more crops with
least expense? How can I cultivate
more acres and have cleaner fields?

IRON AGE Riding
will help you do this. Has pivot wheels and gangs
with parallel motion. Adjustable to any width
efrow. Every tooth can be raised, lowered or turned
to right or left. Lever
adjusts balance of frame

Bateman M'f'gCo., Box 24D ,Grenloch, N.J.

Cheese Prices and Production

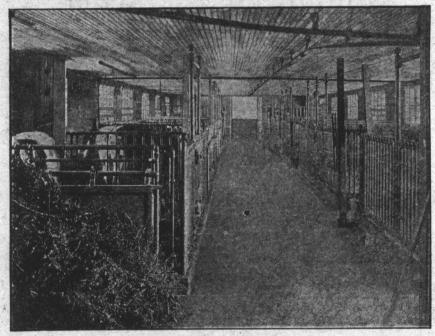
milk producer after delivering at the buttermaking. factory is receiving around seventeen on cost of production.

pose may be its final use, and for this which is basic of the industry. reason, the milk used for cheese makindustry, under these circumstances, the food supply. The allowance of

HE present wholesale price of cheese. Approximately two pounds of cheese at the factory is twenty- butter or two pounds of lard would one cents. The selling price al- have to be handled, to equal the gain lowed by the food administration bas- on one pound of cheese. This means ed on pre-war advances over cost is a greater utilization of the food values from thirty to thirty-two cents. The in milk, which are not recovered in

The United States Food Administraand a half cents per pound, or around tion is to make a campaign aided by \$1.75 per hundred pounds of milk. This the Michigan Milk Producers, to inprice is thirty cents below the conden- crease consumption of milk products. sary price, which is \$2.05, and also the It is my opinion that the actual gain to price named by the United States rep- the retailer could be increased by lowresentative for milk at Chicago, based ering the margin per pound in selling, followed by increased sales. Or if this There is no profiteering by the dairy- is impossible, would it not increase man on milk sold for cheese making, cheese production to take two and a for he is loser by two and a half cents half cents per pound of distribution, per pound of cheese on the above nam- and add this to milk production, and ed prices. The cost of milk production conform to the United States Food Adis reasonably similar, for whatever pur- ministration's price on milk production,

The reduction of price below a profit ing is not being adequately paid for. in production curtails output, and this In other words, the base of the cheese in turn increases the cost and reduces



Maternity Barn at Long Beach Farm.

starts food production below cost. Some profit in production curtails output, and greatly, and its value is negligible.

of business and a well equipped fac- vices on the base price. tory, this rate may compensate the cheese manufacturer. However, the shrinkage of milk flow usually reduces the volume except for about three

months of the year.

The addition of all these items must make twenty-one cents on today's market, regardless of the accuracy of actual mathematical calculation. Freight and drayage charges, together with the commission of the jobber and wholesaler, make the price on the basis of food administration reports of cost to the grocer, twenty-two to twenty-three cents per pound. The price to the cents per pound. The price to the consumer, then, must not exceed thirty to thirty-two cents. To strike an average, thirty-one cents is used as the numbers as follows:

fore manufactured into cheese.

value might attach to the whey, but this in turn increases the cost and reowing to swine shortage, it is not used duces the food supply. The allowance of profit from the top downward is not The cheese maker receives from the rule in business, and is submergthree to four cents per pound for man- ing the dairy industry. What should ufacture. A cheese box costs fifteen be done is to fix a basic price for milk or sixteen cents. With a large volume and allow proper compensation for ser-

Mangels for Cows

ANGEL wurzel beets are richer in protein than the corn silage and contain 1.1 per cent of diconsumer's price. Then the percent- gestible protein while there is only 0.9 age of contribution would be in round per cent in corn silage, but mangel wurzel beets do not contain as much While there is some wastage in hand- contain 0.1 per cent of fat only while ling cheese, the waste and shrinkage corn silage contains 0.7 per cent. Howis exceeded in the actual loss from un- ever, beets are enough richer in proavoidable causes in handling milk be- tein to make them as valuable a food, ton for ton, as corn silage and the suc-Compared with other sale allowances culency of the beets is quite as valufor example, the advance price over able if not more so than the succucost of sugar would compel selling lency of corn silage. Beans are praceight or nine pounds of the latter to tically uniform in quality while corn equal the return in one pound of silage varies greatly in this respect,



THE "ACID" TEST OF VALUE

At an auction sale the buyer makes the price.

Auction prices are apt to be lower than the real value warrants, rather than higher.

In any case, auction prices represent the estimate of value placed on the article by the buyer and not the seller.

During the past few months the cow owner's appreciation of the unusual values offered in De Laval Cream Separators has been demonstrated in a most remarkable way.

From one state after another have come reports of the sale of De Laval machines at farm auctions-machines which had been in steady use for several years-at prices, in most cases, only two or three dollars less than the sale price when new; sometimes at practically the same price at which the machine was sold when new; and, in several instances, at even more than the original list price.

In February, at a Missouri auction sale, a De Laval in use two vears was sold for \$1.25 above the original price. In Kentucky a farmer paid for a De Laval \$2.00 more than the original price, at an auction sale. Last January, in West Virginia, a second-hand De Laval sold at auction for \$2.50 less than the original catalog price. On January 15th, in Ohio, a De Laval machine in use a year was sold at auction for exactly the same price it brought when new, and at another point in Ohio a De Laval in use several months brought several dollars more at auction than the original price. In the province of Ontario, early in April, a De Laval in use since 1916, brought at auction a price \$5.00 higher than the owner paid for it when new.

In contrast with these prices paid for De Lavals at farm auctions, it is interesting to note that when other makes of cream separators are offered they are usually listed simply as a "cream separator," and not by name. Often there is no bid for such machines and their usual auction prices run from \$10 to \$15. We have never heard of one that sold at auction for half its original cost.

Perhaps you may not have had an opportunity to learn of the cleaner skimming, easier turning, the great durability and the splendid service given by the De Laval machines, but here is the strongest and best sort of evidence that those who do know cream separators appreciate that the man who buys a De Laval gets good and generous value for the purchase price. And further, that even after a De Laval has been several years in use, it is practically as good as new.

If you are without a cream separator or in need of a new or] better one, why not see the local De Laval agent immediately? If you don't know him, address the nearest De Laval office as below, for any desired particulars.

THE DE LAVAL SEPARATOR CO.

165 Broadway, New York

29 E. Madison St., Chicago



wed by the Hive with with he Inner Overcoat did it.
WOODMAN CO., in Inner Overcoat., Wintered 100% perfect, no loss of land for free 48 page catalogue of bee keepers supplied Dept. M. F., Grand Rapids, Michigan.



Four Miles or Twenty

Are You Working Your Farm at a Twenty-Mile Pace or at Four Miles?

Manufacturers and merchants have come to realize that their business can't go any faster than their delivery and hauling facilities will permit.

What good does it do to produce a large volume if it can't be hauled promptly?

A farmer is in the same situation. Getting products to market promptly is just a necessary for rapid, economical farm pro-uction as it is for the manufacturer or mer-

duction as it is for the same chant.

The farmer who uses horses to haul his produce at a four-mile pace is sure to lag behind his neighbor, who is hauling at a twenty-mile pace with trucks.

You don't need to wait until you can afford an expensive truck. Detroit Universal

an expensive truck. Det Truck Units will put your farm in the twenty-mile class, and at a very small

expense,
Detroit Units can be
attached to any chassis in a
few hours time, making a
thoroughly reliable, economical truck of one, two, or
three tons capacity.

A Ford chassis will make an excellent one-ton or two-ton truck. Larger cars will make the two and three-ton sizes.

Perhaps you have an old car, with the motor and chassis still in good condition, or know where you can get one cheap.

Investigate this proposition today.

Let us send you complete information showing how, for a small expense you can speed up your haulage this year and boost your production and profits.

Specifications

Made in 1½, 2 and 3 ton models. Fit any chassis. Work can be done in one day. The famous Russell Internal Gear Axles are used in all models, providing the high road clearance so necessary to farm work. Other parts standard—equally high grade.

Prices run from \$400, for the 1½ ton model, to \$675 for the 3-ton model. Made in Detroit, by people who know how. Prompt deliveries—short shipping distance.

Manufactured and Sold by

The Parkview Sales Company, 1685 Gratiot Ave., Detroit, Mich.



This is the Truck we Built for One Progressive Farmer.

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Are you suffering from rupture without any hope of relief? Get the Brooks Rupture Appliance on free trial and know the comforts of a sound man.

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Write today for measure blanks.

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We furnish staves, hoops, doors. Cheaper and East to build than wood or tile. Stock limited. Write no LESLIE H. BONINE, Vandalia, Michigan Member National Cement Stave Silo Ass'n

FOR SALE-On account of the dairy herd and have an Omega Milker, 3 unit with all pipe line, used just four months, E. J. Williams, Cassopolis, Michigan.

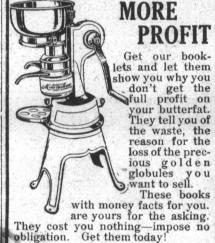
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And know for yourself why you

We have facts proving the separator gets, as high as 99% butter-fat. There's a real reason for this superiority. You, too, should get superiority. You, too, should get the facts about this factory tested and guaranteed "Milwaukee." Use a post card—NOW!

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B-V-T-Silo

Built of everlasting Brazil Vitrified Fire Clay. Reinforced with steel ribs bedded in cement. You'll never have to rebuild it. Your neighbor has one. Ask him. Send for Booklet D Brazil Hollow Brick & Tile Co, Brazil, Indiana

ton of silage.

But this doesn't get us any nearer to the juice or succulency of the plant, age or one-third ton of timothy hay. substances but when you consider their culent food as a part of the ration.

therefore I would reason that a ton of food value we have got to figure in the mangel wurzel beets, everything con- terms of dry matter that they contain. sidered, is well worth as much as a That is the weight of the substances after the moisture has been eliminated.

Now, the food value of corn silage answering the question because it is compared with the food value of timdifficult to state the value of a ton of othy hay would warrant us in saying corn silage. There is no market for it, that one ton of timothy hay is worth nothing to fix the price, and the only as much as three tons of corn silage; value we can give is its comparative then corn silage is equal in value to food value with other feeding stuffs. one-third of a ton of timothy hay. If Now, timothy hay is such a product timothy hay is worth \$21 a ton, corn and has a market value. Of course, silage would be worth \$7 a ton for in timothy hay the water is evaporated feeding purposes. And consequently if so that a ton is worth much more than a ton of mangel wurzel beets is equiva ton of corn silage. The real food alent to a ton of corn silage a man can value of any substance depends upon afford to pay as much for ton of beets the dry matter it contains and not on as he would pay for a ton of corn sil-

This juice or succulency of the plant One thing that a man can safely figmay be of great benefit in keeping the ure on and that is that he can afford to digestive organs of the animal in good pay something for the succulency in condition. It is undoubtedly this one mangel wurzel beets because it makes reason why we get such good results the whole ration more appetizing and with corn silage or with mangel wurz- it keeps the cows in better condition el beets—on account of the high diges- and you can get more out of the other tibility and the palatability of the two food in the ration, by having this suc-

Sunflowers for Silage



Harvesting Our Sunflower Crop.

it is certainly worthy of a trial on any compare feeding values. farm. Last year I had three acres of In feeding the sunflowers I could not as the corn rotted while the sunflower well, seed, which will stand more wet weather, grew fine.

as scarce as it is this year will furnish pounds of seed with the corn per acre. a fine substitute for next winter. I Oakland Co.

GREAT many farmers are rather started filling silo with clear corn then skeptical in regard to using the used sunflowers and corn, and finished Russian sunflower for silage, but with corn which gave me a chance to

sunflowers and ensilage corn mixed see any difference in the milk flow, Some of it was nearly all sunflowers and the cows seemed to like it just as

They can be cut with binder and go through the ensilage cutter as easily The sunflower is hardier, will yield as corn, but are heavier to handle. I a heavier tonnage and with seed corn would recommend mixing about three

Milk News from Field Secretary

on Friday, May 31, in the Cham- afford to." ber of Commerce, Detroit. All parties having business with the Commission should be on hand at 1:00 p. m.

May Milk Price and Surplus mittee are as follows:

twenty per cent, surplus, at \$2.00 per cwt; average, \$2.36.

It had been hoped in the early part the buyers had closed some of the up- the difficulties that have arisen. much as thirty per cent. Other large solve these problems. Sinder Twine—Granges, Farmers Clubs get our price instance, to a large milk buyer in a line—the line of fairness and justice—theo. Burt & SONS.

Melrose, Ohio nearby city the producers have said, of the continued on page 667).

HERE will be a meeting of the "Take our milk and use it to the best Detroit Area Milk Commission advantage and give us what you can

That Abominable Test.

rerhaps there is no one source of annoyance that is so manifest at all times as the milk test. Many times The May milk prices and surplus ... the apparent difficulties are imaginary fixed by the Detroit Commission Com- and a little consideration and a little charity would save a vast amount of Eighty per cent at \$2.45 per cwt; criticism and unrest. Sometimes, however, there is a reason for the unrest, criticism and acquisition on both sides.

The Michigan Milk Producers' Assoof the month that there would be no ciation is continually on the alert to surplus for May-inasmuch as some of forestall any trouble and to iron out state plants, thus shutting off a large this purpose both Commissioner Woodamount of milk from the Detroit mar- worth, of the State Dairy and Food ket. But later on the flow increased Department, and Prof. Anderson, of the and when the survey was made by the M. A. C., have been appealed to and committee it was found that, while both departments have detailed a man many of the smaller dealers were to assist in establishing an equitable wanting more milk, some of the larger basis of adjustment. Both departments distributors were having quite a large now have a man on the field working amount of surplus; in one instance as for us, in the name of the state, to help

cities about us are obtaining their milk It is the sincere desire of the Assosupply at prices ranging from \$1.80 to ciation to cause both the buyer and the \$2.30 per hundred pounds, and in one seller of milk to come close to the right

Saving Garden Labor and Space

or pay tax upon a large farm; and of well. Later I sold a bushel or two, but judicious marketing.

was always particularly disagreeable to weeks during the summer. me; and I could see no difference between vegetables grown close enough more space.

Good Production Despite Drought.

abundantly than this year, despite the nails in my poultry house all winter. summer's drought, and as the illustra- We began cooking cabbage in July, and tion shows, I have practically no va- early in August I began to sell it. From cant spaces, though the ground is fully seven rows of corn about eighty feet

OMPETITION is so strong, and row, gave nearly a bushel of ripe on-efficiency so essential, in these ions. From the two rows of beets days, that several factors must coming next I sold more than a huncombine to spell success for the small dred bunches of beets, which left the farmer who can neither afford to own rows plenty thick enough to mature these factors two stand out pre-emi- reserved a generous winter supply for nently as the ones of prime importance ourselves and my flock of fifty hens. -economy of space and labor, and By the way, the only criticism ever given my bunch of beets was that they When I began gardening independ- were too large and, after testing the ently I supposed most truck required quality, we heard no more about that. more room than I have ever accorded A little less than four rows of Prizeit since, simply because I had heard takers and Yellow Globe Danvers gave that it did; but the extra labor of keep- four or five bushels of ripe bulbs, and I ing unoccupied spaces free of weeds, thinned and sold bunch onions for

The Surplus is Sold.

Thirty feet of carrot rows was thintogether to cover the ground at matu- ned for bunching and about a dollar's rity, and those allowed considerably worth sold; those left till maturity grew to fourteen to eighteen inches around, and there were practically no My garden never produced more small ones. These will be hung on



Intensive Gardening that Paid.

occupied by vegetables rather than long, I sold fifty-three dozen ears, berows of carrots, beets, and onions; month or more. but between the adjacent rows of onions I found nine inches just as satiswith big, thrifty cabbage heads.

The Bean Crop Spoiled.

the highest development of any crop, freshly picked and still dewy. and that was an accident. I planted one row of sweet corn very early but At the street market we found an per dozen, so I thought best to not produce quite as heavily as when both consumer and producer to deal not shaded by the corn.

Good Production.

house-sixteen tomato plants and five erative organization under way, with a cucumber hills-gave an abundant sup- business in prospect which will buy ply of both for home use and a few to everything the farmer sells and sell sell. If the whole row had done as everything the farmer buys; but, for well as the three tomato plants set out a time at least, I believe it will still first, I could have sold several bushels, pay to huckster, though we shall by all but the hot, dry weather nearly cooked means patronize, and do all in our powthe later ones. A row of Yellow Globe er to boost, the cooperative associa-Danvers running directly through the tion. mixed row-about forty feet of onion 'New York.

weeds. I allowed just a foot between sides furnishing a family of five for a

Marketing.

I never intended this for a market factory. Sweet corn rows were planted garden at all; it was planted exclusivetwo feet apart, and hills a little less ly for home consumption and I sold than two feet apart in the row. Cab- only the surplus. Even the corn was bages were set about two feet by two meant for a long succession, but the feet, and where hens destroyed one season proved so hot and dry that all end of two rows of beets which had a of it came on at once. August 19 we row of onions between, the vacant made up our first good auto load, inspace was filled with cabbage, and both cluding all cucumbers, cabbages, eggs, grew so luxuriantly that, when fully blackberries, and apples we had to matured, the ground was practically spare; several bunches of carrots, covered with big onions, alternating beets and onions, and a big pail full of my mother's sugar cookies. We are four miles from the nearest summer In only one instance has my method resort town and, with the car, we can of close planting proven detrimental to rush in vegetables on the early market,

Gets Premium Prices

the season continued so cold that it eager crowd ready to buy our stuff like didn't come up, so I planted another hot cakes. Sweet corn, in particular, row two feet beyond, leaving this space was at a premium, and while others for late cabbage. This time I alternat- sold at fifteen cents, people gladly paid ed the hills with pole beans, with a from twenty to thirty cents for ours; view to hiding the unsightly poles indeed, they began by making their among the corn. Usually this proves own prices, and we sold duplicate ora very good arrangement for just one ders to many who had already bought row, but later my first corn came up inferior specimens. Later we graded beautifully. That particular brand of carefully, making fifteen, twenty, twenearly corn sells here as high as thirty ty-five and thirty-cent grades. We have previously shipped eggs and poultry sacrifice my beans a little, rather than but shall never do so again during the to pull it up. They grew well but did summer season; it cannot but benefit direct whenever possible—they get better food and we get better prices.

My first row of vegetables next the We have a thriving farmers' coop-

MRS. E. ANDERSON.

DISSTOR SAWS AND TOOLS

A \$200,000,000 Woodlot

THE farmers of this country own a \$200,000,000 woodlot. How much money will you make on your woodlot? Coal will be mighty scarce next winter. Many a factory, many a family will have to use wood. True, as sure as you're a foot high. Sell all the wood you can cut. Use a Disston Cross-Cut Saw for felling and for cutting cordwood lengths.

The greenest or hardest of timber can't make a Disston Cross-Cut Saw quit. It stands up to the hardest kind of work and then comes back for more. Thrust pressure won't buckle it. Its blade, of Disston Crucible Steel, delivers long years of service. It has the right temper. It has the right hardness. The steel in Disston Saws or Tools is made right here in our own plant, because no other kind would do.

We make many patterns of Disston Cross-Cut Saws for one man or two. These can be had in wider or narrower blades with the tooth you like best. Find the name Disston on saws and tools and you'll know you're getting quality through and through. Disston Cross-Cut Saws are the choice of the best woodsmen, as Disston Handsaws are the choice of three out

Modern farming demands Disston Saws and Tools. Sold by all progressive hardware dealers the world over. Send today for free copy of "Disston Saws and Tools for the Farm."

HENRY DISSTON & SONS, Inc.

PHILADELPHIA, PA., U.S. A.







For Sale -- Moline Tractor Model (B), equipped with two 14-inch bottoms and carrying truck. Used only 30 days and in good condition, Address V. SITTS, Mason, Michigan,



For Your Empty Bags WERTHA

WERTHAN BAG CO.
61 Dock St. St. Louis, Mo.

Seed Buckwheat \$5

Per 100 pounds. Bags extra at 35c. Young-Randolph Seed Co., Owosso, Mich.

Early Y. D., 100-day variety & Kaufmann's 90-day Yellow; Pa. grown. Germination good. Graded corn shipped up-on approval. Price \$8 per bu. C. H. & J. Graves, Antwerp, O.

SEED BEANS New Prolific, an improved white navy pea bean. Yield last season 19 bu. 1003 germination, college test. Pick less than one pound from machine and harvested without rain or frost 59 per bu. Bags'45 cts. E. S. Christiansen, Coral, Mich.

Hairy Vetch

HE advantage of hairy or Russian vetch as a soiling crop lies in its extremely rank growth, its power to extract atmospheric nitrogen and the fact that it adapts itself to being grown between other crops without interfering with the regular farm routine. For such purposes it may be sown in corn ahead of the cultivator the last time the field is worked. It does not appear to get very much hold the balance of the season and in this way may lead to disappointment. But it is working on the job just the same and in the spring it takes hold rapidly and comes to maturity in a hurry.

There is practically no danger of winter-killing since the plant comes of an ancestry accustomed to the bleak winters of Russia. Some time between the first of May and the middle of June, depending upon the season and the latitude, the vetch field becomes a solid mat of luxuriant vegetation. It may get so rank that disking must be resorted to before it can be plowed. Its effect in mellowing and lightening a stiff soil is remarkable.

The problem of inoculation must be met with vetch as with many other legumes. However, less difficulty appears to be experienced in this regard than with alfalfa, especially if a soil is somewhat low in lime. Vetch ripens very unevenly so far as the seed is concerned. On some plants the seed pods may be bursting at one end of the cluster while at the other end the plant may still be in flower. Consequently in growing it for hay, if one does not keep close watch of it and cut it before the first maturing pods are ready to burst open, seed will be spilled and the plant will make its appearance the following season. We have seen one field of "volunteer" vetch which was impossible to tell from a field especially cultivated to this crop.

Illinois.

ORIN CROOKER.

ENLIST SCHOOLS TO PROTECT WHEAT.

The aid of high school pupils of the state, and particularly those who are members of classes in botany, is being sought by the Michigan Agricultural College in the campaign now in progress to wipe out the high-bush barberry. Letters containing instructions showing how the offending shrubs can be identified and destroyed, have been mailed to all the schools.

The barberry against which the extermination measures are being direct ed is the variety known as "high-bush." The Japanese barberry, which is free from the sins of its "high-bush" relative, is not concerned in the matter at all, and according to the pathologists, should not be destroyed.

The high-bush variety helps to spread stem rust of wheat, a disease which annually destroys much of this

MAY HAVE LICENSE REVOKED.

The way of commission men these days is not strewed with roses. George A. Prescott, State Food Administrator, will recommend to Washington that the license of the Standard Fruit Co., of Wayne county, be revoked, due to failure to carry out contracts with farmers for onions which were allowed to spoil and for which the company is alleged to be responsible. While the authority of the state food administrator does not permit him to revoke licenses, he has the privilege of making the recommendation to the authorities in Washington that such licenses be withdrawn. Other commission houses in the Michigan metropolis and elsewhere are being investigated.



How the Armies' need for meat was answered

N a fighting man's ration, meat is the important item. Twenty ounces of fresh beef, or its equivalent, is called for daily.

To supply the meat needs of an army that was suddenly expanded from 100,000 to 1,500,000 is a tremendous task. Added to the needs of the Allies, it is a staggering one.

The American stockman and the American packer may justly take pride in the way they have met these needs.

During 1917, stockmen sent to market nearly 2,000,000 more cattle than during 1916. Yet at the end of 1917, the Department of Agriculture reports more cattle remaining on American farms than at the beginning of the year. The production of hogs has also been increasing. All of this in spite of high feed prices, and scarcity of labor.

How the packers have done their part is shown by the fact that in one week, Swift & Company was called upon to supply the Allies and the American Armies abroad 24,000,000 pounds of meat and fat-enough to

have fed America's peace-time army for more than six months.

An order of this size means the dressing of 13,000 cattle and 200,000

To move the finished products, 800 freight cars were needed. Of these 650 were from the Swift refrigerator

Three days after the order was received by Swift & Company, shipments began, and the entire amount was rolling seaward within a week.

Since January 1, 1918, over 400 carloads of our products per week have been shipped abroad on war

The nation's meat supply machinery has stood the test.

Not once has there been a failure on the part of the American farmer or the American packer to supply the government's needs.

On their part, Swift & Company performs their service without governmental guarantee of profit and with a limit of 9% return on capital employed in the Meat Departments, which means about 2 cents on every dollar of sales.

Swift & Company, U.S.A.



GEHL Ensilage Cutters

The simple, yet strong and rugged construction of Gehl Ensilage 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 in feeding 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.

Write for Big, New Catalog showing all sizes of Gehl Cutters and giving full details about the alfalfa attachment.

GEHL BROS. MFG. CO. 111 S. Water St., WEST BEND, WIS.







Please Mention The Michigan Farmer When Writing to Advertisers

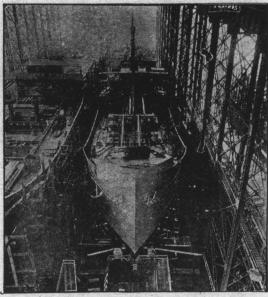
Magazine Section

LITERATURE POETRY HISTORY and INFORMATION



The FARM BOY and GIRL. SCIENTIFIC and MECHANICAL

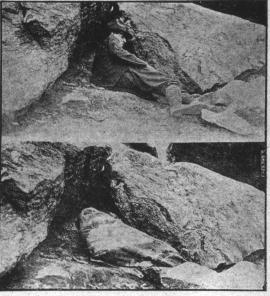
WORLD EVENTS IN PICTURES



Collier "Tuckahoe" built in twenty-seven days, sets world record for speedy ship construction.



Wounded in great drive awaiting transportation to the hospitals.—(British Official Photo).



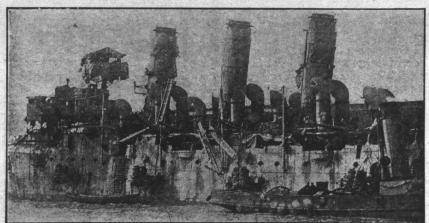
How the soldier camouflages himself to deceive the enemy is illustrated in these two pictures.



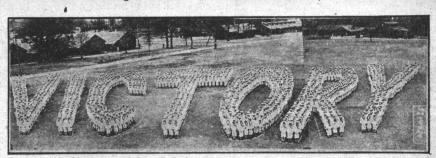
French war veterans who aided Liberty Loan Drive visited West Point and reviewed the cadets, who are the best drilled troops in the world.



British troops and tanks in French village on their way to meet the attacking Germans.—(British Official Photo).

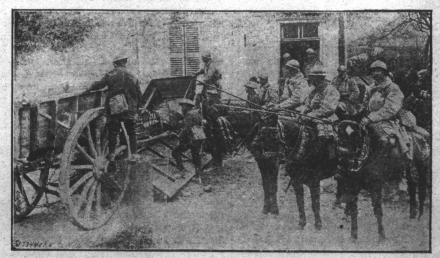


British Cruiser Vindictive, battered by German shells, returns to home port after raids on U-boat bases at Zeebrugge. Since the photo was taken this cruiser has been sunk and now blocks Ostend channel.



Jackies at Naval Training Station spell out their watchword, "Victory," in huge letters of living men. The white clad men and the green parade ground made a striking picture at a recent demonstration.





British and French armies uniting their efforts against the enemy are here French Cavalry and British Tommies working together on western front, are shown on the way to the front lines.— (British Official Photo).



Steam Still Furnishes the Most Dependable **Farm Power**

THE Nichols-Shepard Steam Engine is representative of the best that can be produced.

The design and mechanical construction of this engine are right by the test of use and years. From the little 13 to the giant 25 h. p., over three times the rated power is easily developed, and it is always there when you want it. The Gas Engine is all right for the man who wants one, and who has had experience with them. The Steam Engine, however, is the most simple and consequently the most dependable. Any one of a half dozen different things

may stop a gas engine which can-not be found without experience, but all know enough about the steam engine to keep it running. The Nichols-Shepard Steam Traction Engine, one of the Red River Special Line, is always dependable. Write for circulars.

Nichols & Shepard Co.

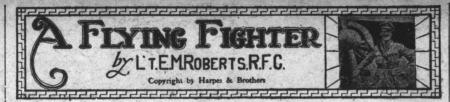
In Continuous Business Since 1848 Builders exclusively of Red River Spe-cial Threshers, Wind Stackers, Feeders, Steam and Oil-Gas Traction Engines **Battle Creek** Michigan





Per 100 pounds. Bags extra at 35c. Young-Randolph Seed Co., Owesse, Mich.

Seed Corn: Early 90 day Yellow Dent, 90% Germ, Guaranteed \$6.50 bu. Samples free. THEO. BURT & SONS. Melrose, Ohio.



Synopsis of Preceding Chapters.

F. M. Roberts, an American, born in Duluth, Minn., with an inherited love of adventure, was up in the foothills of the Rockies, drilling for oil, when the war broke out. In October, 1914, he started on a trip to Calgary, and on the way learned of the great conflict taking place in Europe. Reaching Calgary, he enlisted in the Tenth Canadian Infantry Battalion. On account of his knowledge of mechanics he was given a position as driver of a heavy motor truck or "lorry," and later was made sergeant of a mechanical transport service was famous for mud and night work. I was so thoroughly sick of them both that I was willing to do anything to get away from them.

During the next few days I tried to gather information as to how I could get into the Royal Flying Corps. I got no satisfaction, however, for nobody seemed to know exactly how so exclusive a circle could be invaded. Nevertheless, my ambition to get into the aviation service grew stronger each day, and each bit of information I could secure was welcome. was later selected by draft for the mechanical service in France. At the second battle of Ypres he suffered severely from a gas attack and was sent to an English hospital to recover. In August he returned to France where he was placed in charge of a motor transport division, carrying supplies from the railheads to the front lines.

Running the Gauntlet.

Hauling material at night for the Engineers in a neighboring sector, we had to use a road on which several dispatch riders had been killed by a spy. It had been announced that two weeks' leave of absence in England would be given the man who caught the spy, and of course everybody was on the lookout for him. Every nook and cranny in that part of the country had been searched, but nobody had been found. The only person ever seen near the road was a peasant plowing his fields.

About a week after that I met a sergeant of the police whom I knew well and he asked me to come with him the next morning to headquarters. I was there at six o'clock and at six-thirty that same peasant was marched out in the little square behind the chateau and blindfolded. Sentence of death was then read to him and for the first time in my life I saw a firing squad march out. It was over soon. A bullet through the heart put an end to the peasant and he was buried without ceremony as a traitor to France and the Allies.

The sight impressed me greatly and for the first time I realized fully what it meant to be a traitor. I went back to the ammunition dump a very thoughtful man, realizing how little a life mattered in this great struggle.

for once favorable, both sides sent up their captive balloons. I counted as many as twenty of them. Most of them equipped in that respect. The aeroplanes also sailed about.

mud up to my knees either in trenches hundred of them. or on the roads and getting very little things unknown to me. Of the cold spiring. above the clouds and the chances one As the British forces came to attenman lines I had heard very little.

for all that, so long as I could get out and British generals pinned the decora-

stay indoors at night. The mechanical

secure was welcome.

Christmas of 1915 came around, and every man at the front was looking forward to it on account of the presents and better food from home which the holiday season would bring. The officers of the unit were to give us a turkey dinner. The day before Christmas we were paraded and each man received a pair of socks, a piece of good maple sugar, and three packs of cigarettes. From some other source we received a deck of cards and a small box of chocloate. Many of the boys also received Christmas boxes from home, but I was not one of them.

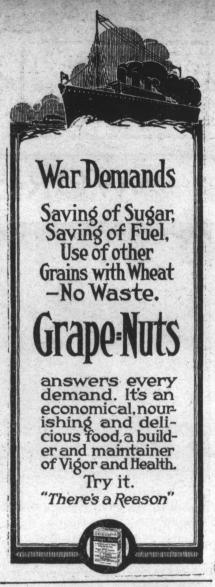


Thirty-five Hundred Loaves of Bread for the Boys.

On the same afternoon I witnessed an event that to me seemed really That afternoon, the weather being worth while. Some Canadians were to be decorated by the French for deeds of valor. We were away north of the French lines, but that made no differwere Germans. We had a few our- ence to the poilus, who also were to selves, but the Germans were better attend the ceremony. They came down in lorries just as they had left the trenches and they did not have a holi-I envied the flyers. Here was I in day appearance. There were about five

After the French soldiers had been out of the war but lots of hard work. lined up with bayonets fixed, the men The other fellows were sailing around to be decorated, twenty-eight in numin the clean air while I had to duck ber, were marched into the square that shells all the time and run chances of had been formed. This done, some of being caught by the machine guns and our own troops marched up, headed by snipers. Of course the aviators were a band that was playing the Marselalso being shelled, but they never laise. The enthusiasm was great. seemed to get hurt. I had seen some Those men had gone through every of them hit trees and other obstacles hardship one can imagine, and to see upon landing or getting off the ground, some of the comrades honored seemed but the game had always appealed to to cheer them all. The poilus and our me strongly. To me flying seemed the own men were not exactly a clean lookvery acme of adventure and I had no ing lot. There was an unwashed look notion, of course, how good the German about their bewhiskered faces and on anti-aircraft batteries were. Flying the mud-covered gray coats could be "fish-hooks," burning "onions," as we seen many a blood-spot. But the men term a certain type of shell used by were as steady as rocks and presented the Hun, and forced landings were arms with a snap that was really in-

took in having to land behind the Ger- tion the French band struck up the "Maple Leaf Forever," and followed But I was willing to take a chance this by "Old Canada." Then the French of the mud and had an opportunity to tions on the Canadians and kissed each





T kept thousands of homes warm last winter. Exclusive features of construction make it the only furnace which fully incorporates 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 or 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. Michigan Hardware Co

Distributors for Michigan





The BUNDAY BEDDING CO.,

Please Mention The Michigan Farmer Wh n Writing to Advertisers

band played the march past. When swer: it was all over the generals again saluted each other and the troops disthe poor unfortunates and carried them shoulder high to the nearest cafe.

It had been a most impressive affair. There is something in those French soldiers and even in the peable race. They were already beginning Christmas Day. to feel the great strain of the war, and though they showed plainly that it was telling on them, they were bearing up friends in England, which was really a wonderfully. I used to ask them whether they were anxious for peace; always the said yes, but with the terms of ourselves-and our allies—the terms ous to know what it contained, and upof the victors. Otherwise they were willing to fight to the last and I think they have shown that spirit all the way through.

Christmas evening we had the turkey dinner. Those who were in the front lines had theirs the next day. The front was quiet. At twelve o'clock on Christmas eve all firing had ceased and only an occasional star shell reminded us that night that war was still on. These shells are sent up to guard against surprise attack. We wished one another all the good things of the season and we even included the Huns, who were about seventy-five yards away. They had hoisted up a placard over the parapet on which was inscribed the words Merry Christmas. It was a sight that touched the hearts of many of us and one that we will not forget in a hurry.

We were a rather melancholy crew those days. Everybody's thought seemed to be very far from the trenches.

Somebody would shout:

ELIDADARAH BARAN BAR BONNY BOYS AND TRUE MEN.

BY M. B. RANDOLPH.

Sons of Vet'rans South and North, And ye of the Golden West,
Soon to warfare you go forth
At honor's stern behest;
The call of the East comes over the

sea, The cry of child and woman In the name of Christian chivalry, In the name of all that's human, Forth you go, O sons of the free, Bonny boys and true men.

You'd smile at helmet of Navarre, The lance of Charles the Bold,
For greater perils those ye dare
Than they e'er knew of old;
The gruesome craft whose missle falls From clouds on earth below,
The mighty guns that belch their balls
For miles upont he foe,
Each dark device that holds its place

In making ghastly slaughter,
The liquid fire, the gas, ye face,
The perils of the water,
Yet forth ye go to righteous war
In name of all that's human,
Under Freedom's guiding star,
Ye harny beye and true men Ye bonny boys and true men.

As men of old went forth to smite The foe in holy city, So ye go forth in manhood's might Urged on by manhood's pity rescue in this new crusade The old, the child, the woman Who come within our banner's shade, Ye bonny boys and true men.

'Tis true no cross our standard bears As those in older strife, Yet many a lad the symbol wears Upon his cleanly life; Flower of our nation South and North,

Sons of the Blue and the Gray, Side by side ye rally forth In the name of Liberty. Let no ungodly hate be yours,

wound, That calms the wild unrest, That passes cup to captured one

As to an honored guest.

Yet strike with might the heartless eyes full of murder looking at him.

Hun In the name of all that's human, And strike till Freedom's war is won, Ye bonny boys and true men.

of them on the cheek, while our kilted about?" and back would come the an-

"Aw, shut up!"

Many of us would have given a great persed. The men who had been decor- deal to be home that night, especially ated did not seem to know what to do when at one o'clock in the morning the with themselves. Just then the gang Christmas truce came to an end with who had watched it all rushed upon the bark of the rifles and the tut-tuttut of the machine guns. Soon the field artillery and the "heavies" woke up again, and before long an intense bombardment of the sector was on. When daylight came the ambulances sants that make one conscious of the were busy carrying out the wounded fact that the French are indeed a no- and dying and many were buried on

That afternoon I received two letters from home and two others from big mail. I also received a very small box about the size of a jeweler's case and very neatly done up. I was curion opening it found Turkish cigarettes -lady size, or about the dimensions of a wooden match. They had been sent me by a lady with whom I had had tea in England and who had promised to send me cigarettes. I sat down and finished the lot, all of them making just one good smoke. I ended the day with a visit to a dugout where we had a game of poker in which I won twelve dollars, which was a lot of money, see ing that our pay was only a france, or twenty cents a day.

This meant that I had in my pockets a fair percentage of the company's pay-roll. I knew that I would have to loan out a considerable share of it before long and that very little of it would ever be paid back.

With some of my winnings I managed to secure a bath, something which is pretty hard to get in Flanders, since the natives do not seem to bathe very often. In Flanders the bath is taken in a wooden tub in the kitchen, and one has to scout around until some "Hey, mate, what are you thinking peasant woman is found who is willing Taking a bath is quite an event in that part of Europe. I was once billeted in a peasant woman's house where nobody had taken a bath for seven months. The woman had the habit of washing the children's faces in the same water in which she had washed the dishes. After that I took no chance on her cooking, and a partner of mine, Will Askey, and I took turns attending to our food.

During our first months in France we had near us a Gurka or Indian regiment. And it was funny to see the little brown men in camp or in action. They were very interesting. The Gurkas eat a funny cake made by themselves of flour and water and you could walk into a Gurka camp most any time and see some of them squatting in a circle making their funny little biscuits of flour and water which, when cooked, had no taste whatever.

They also drank a lot of coffee of the French kind, which is about seventy-five per cent chickory and twentyfive per cent coffee, but it isn't bad to drink at that.

The Huns had a wholesome fear of these little Gurkas, for they are wicked fighters, and they used to call them the 'little black devils." The Gurkas, when ordered over the top, climbed over the parapet, dropped their rifles and pulled out their "kukries," a sort of heavy knife which is curved and looks for all the world like a hand-scythe for cutting corn.

This knife was carried in their mouths by the Gurkas, who, crawling up to the Hun lines on their stomachs, would bounce into the Hun trenches No mean, unmanly spite.

Let yours the courage that endures
All hardship for the right;

Be yours the hand that heals the Hun's throat, then cut off his ears as a keepsake, and one can imagine the terror the Hun must have experienced when he saw those wicked little beady

> When the Gurkas returned, they would take their German ears, dry (Continued on page 661).



Lafayette, Here We

Through remote French villages resounds the unaccustomed tramp of American soldiers. But a little while ago and these men were in the quiet of their homes in a peaceful country. Today, in a strange land, they are facing the world's bloodiest struggle.

Pershing at the tomb of America's old time friend months ago reported, with true soldier eloquence, "Lafayette, here we are." And it is for us of the great American democracy to rally all our might to the support of our army and our allies.

From our shores to the battlefields of France are thousands of miles which must be bridged with ceaseless supplies to our troops. Every day calls for action here, no less than there. Cooperate! Sacrifice! These are the watchwords sent over the land by the Government.

In this national effort the Bell System has served with every other essential industry in order that communication, manufacture and transportation may be kept at the peak of efficiency to provide the munitions, ordnance and supplies so urgently needed.



AMERICAN TELEPHONE AND TELEGRAPH COMPANY AND ASSOCIATED COMPANIES

One Policy

One System

Universal Service

We have a small stock of the following varieties of Contract Grown Seed Corn that we can ship immediately. This corn has all been tested recently and shows good germination and is not crib corn picked up here and there, but was grown for seed by experienced growers

White Cap Yellow Dent Reid's Yellow Dent

Improved Leaming Yellow Dent King of the Earliest

All shelled corn. 56 lbs., price \$8.00 per bu. f. o. b. Ypsilanti, bags extra 50c each. Cash with order, we ship immediately.

Martin Dawson Company, Ypsilanti, Michigan



Bee Hives, Section Boxes, Comb Foundation, Smokers, etc., Be-ginner's complete outfit furn-ished with or without bees.

BERRY BASKETS

M. H. HUNT & SON, Box 525, Lansing, Mich.



Cash for Old False Teeth and Don't mat-we pay up to \$20 per set, also cash for old gold, sliver, platinum, dental gold and old gold jewelry. Will send cash by return mail and will hold goods 10 days for sender's approval of our price. Mail to Mazer's Tooth Specialty, 2007 S. 5th St., Phila., Pa.

Railroad Traffic Inspectors Wanted. \$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 LSFRONTIER PREP. SCHOOL. Buffalo, N. Y.

When Writing to advertisers please state that you saw their ad. in The Michigan Farmer.



An Urgent Appeal

HE following, sent out by the

Cut down the consumption of wheat by at least one-half.

flour and all other wheat products per day of toil.

Corn cannot be shipped now. During the next two months, the season of germination, there is too much spoilage in shipment.

Going without wheat is an inconvenience-nothing worse-for homes in comfortable circumstances.

It is no hardship-no danger. Physiologists all agree that a wholesome fought the Civil War three years on tizing without any wheat. corn. Early New England did without ill effects.

Going without wheat is perhaps more push mouthfuls upon the fork. expense, certainly more work. Not a the burden?

Shall we ask the women of France to them?

own work, doing the nation's work, ev- hinder us. en doing the work of teams in the field.

The men are gone-all but the youngdying of tuberculosis—an added care. we can make.

French homes have not baked bread Food Administration, tells us for hundreds of years. They have not children, and save 100,000 babies." how we can best help win the even ovens nor baking tins in their kitchens. They rely on the bakery.

bread—for the bakery cannot supply Households keep within a weekly al- quick breads—the women of France lowance of one and a half pounds of must add another hour to their long

> Will you ask them to do that? Or shall our homes carry the extra burden of doing without wheat?

Bread and milk make a meal; so will mush and milk.

Bread and gravy go together; potatoes and gravy are just as nourishing. Toast and fruit are fine for breakfast; but any other cereal with fruit

diet need not include wheat. The south quick breads can be filling and appe-

will stay the stomach as effectively.

After-all, what we have to do is to wheat five years at a time with no eat less bread. Often we eat it to convev other food: we even use bread to

There is one test: Wherever bread hardship but a burden. Who shall bear is used for convenience that is the place to leave it out.

Habit tells us to use bread; the body to do it? Do you know what it means tells us only to provide sufficient nourishment. We must learn to think in in the first three months of his life. The women of France are doing their terms of nourishment and not let habit

Changing our habits is none too easy. But it is no easy task to win the war.

Going without wheat wherever we er boys, the aged and the invalids. In can is one thing we can do to win the almost every home is a cripple or one war-perhaps the largest contribution

As soon as the baby is born his food easily broken. becomes a matter of paramount im-If you ask them to bake their own portance, most of all to himself, as he bing the material between the hands to loses no time in telling everyone about, see if the dressing will come out. Happy that baby who is supplied with Washing will also remove dressing. breast milk, which is the best food for the first year of life. A recent investigation made by the Children's Bureau shows that of certain babies who had been exclusively breast-fed during the as inflammable, as it has less oil in the first six months of life, only a little fiber and less air in the woven cloth. more than two per cent died during the first year of life, while the proportion odor like burnt feathers and leaves a of babies dying who had been artificially fed during the same period was mother is very likely to have a deplet- weighted. ed milk supply, but in many cases upon the removal of these conditions the milk returns and all goes well. In some cases milk may be restored under skillful management even after it has apparently disappeared. It is wise, therefore, to make sure that every means to conserve the supply has been tried before subjecting the baby to the risk involved in artificial feeding, especially

TEXTILE TESTS.

The laws of this country offer no protection to the purchaser of materials. Therefore to protect themselves women should know a few practical tests to determine the content and value of materials. The object in making these tests is to discover if cloth is adulterated, artificially dressed or misrepresented in any way. The following tests from Extension Circular No. 41, Principles of Sewing, University of Missouri College of Agriculture,

1. If water is dropped on cotton and linen goods, the moisture spreads rapsorbed on the cotton for some time.. This is not always a safe test as cot-

2. A much safer test may be made linen. Linen will become transparent but cotton will not be affected.

4. Cotton and wool mixtures when

pation of the coming demand upon it. etablish and maintain centers where 5. Material may be tested by pulling

take their children for expert examina- while linen fibers are long wih uneven tion they can help in work that is of ends, usually pointed. Wool fibers are vital importance to the purpose of Chil-short, kinky and stiff; fibers of reeled dren's Year, to "get a square deal for silk are long, straight and lustrous, while fibers of spun silk are short and

6. Sizing may be discovered by rub-

7. Each fiber has a characteristic a baby throughout the greater part of burning test which may be easily dis-

a. Cotton burns quickly with flame.

b. Linen burns like cotton, but is not

Wool burns slowly, gives off an gummy residue.

d. Silk burns more slowly and with about six times as great. The nervous, less odor than wool. It leaves a crisp Griddle cakes, muffins, all sorts of unhappy, overworked, sick or worried ash. Silk leaves more ash when it is



THREE WHEATLESS SPONGE CAKES.

Barley Sponge Cake.

11/3 cups barley flour.

1 cup sugar.

4 eggs.

1 tablespoon lemon juice.

1/8 teaspoon salt.

Corn Flour Sponge Cake.

1 cup corn flour.

1 cup sugar. eggs.

2 tablespoons lemon juice.

1/8 teaspoon salt.

Rice Sponge Cake.

34 cup rice flour.

1 cup sugar.

4 eggs.

2 tablespoons lemon juice.

1/8 teaspoon salt.

Directions for Mixing.

Separate the yolks and whites of the eggs. Beat the yolks until light, add in alternately the flour, sifted before measuring, and stiffly beaten whites.

These cakes are all very nice and light, texture and color good. Barley has characteristic flavor. The corn flour cake is especially tender and all 3. Crushing cotton and linen mate- are of good texture. The extra lemon a sufficient quantity of water each day. is one of the ways in which communi- rials in the hands will show the differ- juice is used with rice and corn be-During the last eight weeks before ties can give their children protection. ence in the materials as linen wrinkles cause these flours have a slightly starchy taste.

HOW SWEET IS SYRUP?

A cup of syrup is not as sweet as a amounts of corn syrup:

One cup of sugar equals one and three-fifths cup of corn syrup.

Three-fourths cup of sugar equals one and one-fifth cups of corn syrup.

One-half cup sugar equals four-fifths cup corn syrup.

One tablespoon sugar equals one and three-fifths tablespoon of corn syrup.

Half syrup and half sugar give better results in cooking than all syrup. With one cup of syrup use one-fourth cup less liquid.

Start the Baby Right

her general condition and prompt at- eyes, a good doctor should be called. readily digest. It is also important able for all mothers. that the expectant mother should drink

the baby comes the mother should as Indeed, if all the mothers in a commu- more than cotton. far as possible, be spared all forms of nity realize how important such clinics heavy and taxing labor, in order that are for the well-being of their children, moistened, wrinkle more than pure depends largely upon the mother's con- babies are born and to which they can Cotton fibers are short with fuzzy ends, gives the sweetening value of different dition at this time, since the baby gains half his weight in the last eight weeks of pregnancy. The mother's ability to nurse her baby depends largely upon the care she has during these last weeks and immediately after confinement.

The mother should be under the care of a good doctor as long before the birth as possible in order that he may watch for and correct any untoward symptoms that may arise. It is exceedingly important that the ailments of pregnancy be dealt with in the begin-

HE essential features of good ning before they develop into more care for expectant mothers are serious matters. At the first appearproper and sufficient food, rest, ance of swollen hands and feet, or perfreedom from overtaxing forms of work sistent headache, or pain in any part, Columbia, may be used in any home: and from worry, medical supervision of of hemorrhage, or of spots before the

tention to small ailments as they arise. The Children's Bureau, Washington, idly on linen but will remain unab-A prospective mother needs a light, D. C., will send to anyone asking for it nutritious diet of digestible foods such a pamphlet giving simple directions to as she likes and her appetite demands. mothers-to-be. The Bureau will, upon ton and linen are often heavily sized the sugar, salt and lemon juice. Fold Fried and greasy foods, heavy pud- application, furnish information to as- with dressing which prevents the wadings, and all heavy or underdone pas- sociations or communities as to start- ter from being absorbed. tries, or an excess of any one article ing prenatal clinics or consultation censhould be eliminated from her diet, as ters for mothers, where the services of by dropping glycerine on cotton and well as anything which she does not a good doctor are made readily avail-

The establishment of such centers her strength may be built up in antici- and combine in forwarding efforts to wool materials. The baby's proper development also mothers can go for advice before their out threads and examining

Mothers, and the Child Welfare Program

The Federal Government, through the Children's Bureau, U. S. Department of Labor, is asking particularly of mothers a patriotic service which will demand the united efforts of a great many American women for the year. This work is to make the children grow up strong in mind and body, able to "carry on." The third of our population who are children today will soon be men and women who must take their part in the gigantic tasks of reconstruction after the war-tasks which civilization and democracy demand shall be well done.

SELF CRANKING

AIR COOLED

THICK PLATE

LONG-LIVED

BATTERY

BALLBEARINGS

NO BELTS

USES

KEROSENE

"By the Way"

I'M SORRY; I WAS WRONG.

necks as our old North American Indians hung scalp locks around their belts. And if a Gurka had to go to a hospital, you could take his clothes or There may be virtue in the man whing else he had, but you could Who's always sure he's right, anything else he had, but you could not touch the string of Hun ears he who'll never hear another's plan And seeks no further light; But I like more the chap who sings ans liked the Gurkas very much, for A somewhat different song; all hated to see them taken away to another and warmer front where the climate was more suitable for them, and It's hard for anyone to say where it was easier to procure certain kinds of food which they could not get That he has lost the fight or way Because his lights burned dim.

them and string them around their

along without. I was still hoping that sooner or later I might get into the Royal Flying Confessing, Corps, but the chances did not seem very good. I was still living in the And so, I figure, those who use mud and working chiefly at night for the reason that during the day German artillery made all roads of approach to the position impossible. Neither the mud nor the night work looked good to me, but for the time being there seemed to be no getting away from them.

One night about six o'clock I received orders to report at an engineer's dump known as Hyde Park Corner. I was to bring two lorries which were to be loaded with barbed wire and steel pickets. At the dump I was told to proceed to R. E. Farm, the road to which took us through a shell-torn village. On entering the village we had to leave the main road because that lay in full view of the enemy. At the other side of the village the road was re-entered at a point where there was a screen of sacking, on one side of which were painted in large letters the words: "Danger! In full view of the enemy-"

About fifty feet from the screen an old woman used to keep a coffee wagon from which she sold refreshments to working parties who used to wait behind the screen until darkness made it possible for them to get to the front.

hunch that somebody was going to in Berlin. pass the place behind the screen. Just as I was approaching the coffee wagon . Stand behind the boys at the front the Huns began to send over shells and the third one landed right underneath the wagon and blew it, the lady, He knows a dozen languages and the old horse into Kingdom Come.

It was bad enough to have the old lady and the horse killed, but to lose the coffee stall and that cafe complet was really the worst of all. Cafe complet in this instance meant that a liberal shot of rum went into each cup

We would have to do without that whole gang jumped on him. now, and the thought exasperated us. Fritz had been guilty of an unforgivable sin, as anyone would have con- wheat won't go around. cluded from the language that was used by the boys. In the meantime the shells were still coming and it seemed extremely risky to continue on the love, marriage, friction and disputes. read, which was so narrow that only cross the danger zone unhurt.

of the lorries was being limited to fif- makes the young man's fancy turn to teen miles an hour. But we had dis-thoughts of cooling beverages; it if my lorry went faster the others age for the rest of his life. would know what to do, so I climbed in Fans, fire extinguishers, poor drafts, front of the machine, lifted the hood ice cream, vacations, mountains, bathand held up the ball in the governor, ing suits and marriage are among the It did my heart good to see the speed most common antidotes for heat. the motor was giving the car now. The Heat is supposed to be energy, but other drivers followed my example and a careful observation of the effects of before long we were tearing down the excessive summer heat on human beroad with the shells falling all about, ings will fail to disclose the slightest (Continued next week).

they were excellent fighters, and we Who says, when he has messed up "I'm sorry; I was wrong."

The vanity that's strong,
Confessing, "'Twas my fault, I know;
"I'm sorry; I was wrong."

This honest, manly phrase, Hate it too much their way to lose On many future days.

They'll keep the path and make the

fight,
Because they do not long
o have to say—when they're not right-

"I'm sorry; I was wrong."



and she said -!-!-!

WON'T STAND FOR IT.

"I can imagine what will happen the first time a German pulls that 'kamerad' cry on a Yankee soldier."

"Well, what will happen?"

"He'll look him in the eye and say: Where do you get that comrade stuff?""-Judge.

A man who marries his best friend's sweetheart usually feels like apologizing to his friend—at first.

We are betting dollars to doughnuts This particular night Fritz had a that the next world's fair won't be held

-but not too far behind.

And that is much too many-He talks in every one of them And doesn't think in any.

WHAT IT MEANT.

Sunday-school Teacher.-What does this verse mean where it says: "And the lot fell upon Jonah?"

Little Harvie.-I guess it means the

Short circuit on corn bread, the

HEAT.

Heat is a product of fire, summer,

Heat does many marvelous things: one truck at a time could pass over it. It makes water boil and evaporate; it There was a side road, but that had changes the hardest metals to liquid; three feet of mud on it, nor were we it adds zest to an argument; it makes inclined to run back three-quarters of a man change his winter underwear; a mile to get another road. The sen- it wilts collars and makes the laundry try near the screen let us pass, but I business good; it makes clothing more knew that the lorries would have to difficult to stand and to understand, get up better speed if they were to yet easier to see through; it makes the summer girl more interesting to look By means of a governor, the speed at; it makes our meals esculent; it covered that if the ball in the governor makes the swain murmur passionate was held up we could get as much as words of endearment, give and extract twenty-five miles out of the motor .- I promises of eternal fidelity and take was heading the column and knew that other steps which put him in cold stor-

connection between heat and energy.

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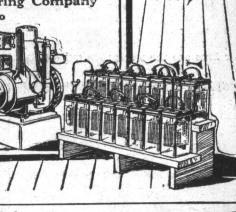
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is a blend of the finest growths of the best gardens-only, and it has remained unchanged for more than 25 years.



A New War Garden Song

which will help to make the country's but when the pupils of other schools in gardens now. Whether all of this is true or not you can judge for yourself, for here are the words:

War Garden Song.

To the Tune, "Over There." "Johnnie, get your hoe, get your hoe, get your hoe:

Mary, dig your row, dig your row, dig your row;

Down to business, girls and boys, Learn to know the gardener's joys.
Uncle Sam's in need, pull the weed,
plant the seed,
While the sunbeams lurk, do not shirk,
get to work.

get to work.

All the lads must spade the ground;
All the girls must hustle 'round.

CHORUS:

Over there, over there;

Send the word, send the word over there

there
That the lads are hoeing, the lads are hoeing,
The girls are sowing ev'rywhere.
Each a garden to prepare,
Do your bit so that we all can share,
With the boys, with the boys, the brave boys,
Who will not come back 'till it's over,
over there

OVER THERE!"

it will come to be not only a garden Agriculture visitors. song, but a war song for the whole juvenile army of America.



Marquette County and Upper Penin. nights with an old quilt or anything

N the southern states the school real inspiration when he penned the children are singing a new song. It lines of his song. He and his mates is called the "War Garden Song," had been singing the popular war meland is of special interest to boys and ody, "Over There," and the tune was seeds. After the holes have been borgirls because it was written by a pupil running in his head. Accordingly, in one of the Lexington, Kentucky, when his teacher suggested writing a and he is only twelve years old. The that tune. The song made an appeal song isn't being circulated, though, just to the teacher, and was given to the because it was written by a boy. It's children of the school to sing. Nobody a good song, a timely song, and a song dreamed that it would go any farther;



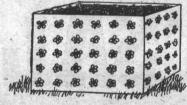
A Fine Crop of Alfalfa

the city heard it being vociferously It is very likely that this song will rendered, they immediately clamored be sung not only in the south, but all for the privilege of singing it, too. As over the country, for the Department a result eight thousand of Lexington's of Agriculture is reported to have plan- boys and girls assembled for a big garned its general distribution in the form den rally on April 2, and sang it to the of a government bulletin. In that case public as well as for the Department of

Naturally it spread to schools in othor cities, until it was being sung with Young Davis seems to have had a zest all through the state. Now it promises to be the rallying call for juvenile garden makers throughout the

War Strawberry Box

C INCE the word "war" is coupled onto nearly everything now-a-days, it is certainly not out of place in this instance, for there was never a more conservative idea. And while the plan will be welcomed most by persons who are compelled to conserve garden space, yet it will be found both profitable and interesting for all. Secure a strong box any size desiredthe larger the better. In the sides and



Wallace Kruiger, Potato Champion of And by covering the box on frosty to live. I am thirteen years of age. mas money. I am ten years of age.

there is no danger of freezing.

rich soil free from grass and weed ilar space in the garden. well firmed after each row is planted. growth of plants and size of fruit. Otherwise the dirt will settle and force

available the plants will fruit until se- the plants from the holes. It is undervere weather sets in. However, the stood that the top of box is planted in covering should be removed when strawberries, too. Depending, of course, on height of box, about five times as The box should be filled with good many plants can be grown as on a sim-

If the box is whitewashed before beed proceed as follows: Fill the box ing filled it will add greatly to its apwith dirt to the first row of holes. In- pearance, and the finest flower bed public schools. The name of this song as a classroom assignment the sert the plant in holes, allowing the need not be put to shame by its being youthful composer is Joe Lee Davis, words naturally fitted themselves to crowns to show out of the soil. Cover among them. Frequent watering will roots with dirt and fill to second row. be necessary in dry weather. Well Proceed in this way until box is filled. rotted manure, if pulverized and thor-While being filled the soil should be oughly mixed with soil, adds greatly to

Letters from Our Boys and Girls

I have lived all my life on a farm. I live on a farm in Oakland county pumpkins and popcorn for my crops, well. But this season the call for more set my traps. food to help feed our soldiers set me

terest, and now own my Poland China good hide. pig. I have paid for her feed by pick-

We have raised mostly small fruit and near one of the lakes and the Huron garden truck, so I have had a good river runs through our farm. I wanted chance to help in both these lines of to earn some money for Christmas, so farm work. Last year I raised onions, I borrowed my daddy's traps and started to trap muskrats. When the season opened, one Friday night after school and for the poor season I did fairly I went down the river in a boat and

When I got to where I wanted to set to thinking, so I borrowed \$16 on a my traps I found lots of runways. The year's time, \$4 I paid for two hen turnext morning I went to my traps, and keys, and the remaining \$12 I used to when I got to the last one I found I purchase a thoroughbred Poland China had a muskrat, so I took him home. He was a very big one; my dog got scared From the two hens I managed to of him and ran under the house. I raise sixteen turkeys. Fourteen of laid him down by the kitchen stove these I sold at Thanksgiving for \$25.25, and he started to come to life. My keeping for next season's work three mother did not like this, so she made of the best hens and one gobbler. Out me come out and kill him. So after of the \$25.25 I paid my debts with in- breakfast I skinned him. It was a

Then it was quite a few mornings ing berries and doing odd jobs, and before I got another, but one morning hope to raise more pigs from her this I went to my traps and I had two more, spring. In connection, I have done so I took them home and skinned



Canning Team Demonstration at the State Fair in Detroit Last Fall.

LESLIE PAULSON.

some gardening, but haven't been very them. Then a few mornings after this successful, as the season was unfav- I got another, he was a big one. One night I set some traps down by the I intend to take up bee culture next bridge, and that night my big Collie year. We have four swarms, and fath- dog started to bark. The next mornends bore holes with an inch and a half er has made me an offer to work on ing I went to my traps and I had anbit in rows each way, about eight inch- shares, giving me half the proceeds. So other one. I guess my dog must have ss apart. In each hole plant a straw- you see I am busy and also happy, as heard him squeal. So I skinned him. berry plant. I heartily recommend the we have a Boys' Club, plenty of skat- Then in about two days I sent the fall-bearing varieties, since they can ing and coasting in the winter, bicycle skins away to Des Moines. Iowa, and be planted as late as June 1 and will riding and hikes in summer. Altogeth- in about a week I got a check for produce a good crop the same season. er, the farm seems a pretty good place \$2.65. And that is how I got my Christ-

WM. C. MORGAN.

Care of Spring Ducks

By E. W. GAGE

to give a few of the important items. of fifty cents when properly raised.

astounding number of eggs. I had a ducklings, but they must never be fed pen of ten ducks, of Indian Runner musty, spoiled grains. After they are strain, that produced not less than ten five weeks old they can be left out in son, and on several occasions laid elev- ter cold and stormy. en eggs. The eggs will hatch successfully in incubators, more so than will have a dry bedding of some kind. The hens' eggs. The eggs should be turn- houses must be so that no draughts will ed regularly twice each day, and must enter during the early age, nor during not be more than ten days of age when the night when the ducks are resting. placed in the machine. The eggs demand more moisture than hens' eggs, ducks. It adds volume to the food and

ORE and more farmers are tak- Oyster shells, granulated bone and fine ing up with ducks, and many grit are always kept before the birds. tell us that this is the easiest One of the large duck farms where

money in poultrydom. Of course, this the feed is all bought except the green is an individual matter, butt he fact stuff, the claim is made that it costs remains that ducks are becoming more five cents for food alone and from six and more popular on the markets, and to ten cents per pound for labor and the prices paid for duck meat is con- food to raise a duckling to ten weeks tinually on the increase. But the fact -a marketable age, after which age that caring for ducks is so unlike the they fall away in flesh and the profit care of chickens, it would seem timely is less. Each duck should pay a profit

Ducks are great layers, producing an No expensive grains are needed for eggs per day during the hatching sea- the open air unless the weather is bit-

Ducklings need fresh air, and should

Do not forget the water in feeding



A Source of Profit on the Farm.

out of the shell than chicks.

that shade and sun are combined, and off the best of the stock. little trouble will follow, rations being proper.

Feed when Young.

of middlings; one-half measure bran; necks. five per cent sand. Feed four times daily. The first forty-eight hours keep a supply of food and water before the ence, and careful watching, but the fact ducklings day and night, but have the still remains that ducks can be turned brooders for forty-eight hours give the ers, that the eggs hatch easier, and regular rations.

feed the following growing mixture four times a day: Four measures of business. bran, three measures of middlings; one measure of corn meal, three measures of fresh green stuff or two of dry clover steamed, five per cent sand, five per cent fine ground beef scrap. Mix. Eggs are very scarce in Great Brit all together dry and wet up with cold ain because of the poultry feed shortwater or skim-milk to make crumbly age. When warned that grain for feedmash.

Feeding for Market.

From the fifth to tenth week, when the ducks should be ready for market, feed the following mash three times a measures of middlings, one measure of bran, one measure of green stuff, ten per cent beef scraps, five per cent sand. At any time if the ducklings show any signs of looseness of the bowels add a community who are not subscribers to little ground charcoal to the mash. your valuable paper."—W. F. H.

and the ducklings are slower in coming makes feeding cost less because it makes the same amount of feed more Very few people understand the care filling. But such breeds as Indian Runducks should receive. The beginner is ners should not be allowed any more very enthusiastic at first, but when he water than poultry, as they are "dry finds that poultry methods fail, that land ducks," and too much water will the ducks "just die," he becomes dis- kill them. The Pekin ducks will do couraged, and quits. The main trouble better in swimming holes, but this may is that the little fellows contract diarr be arranged by using an old vat, on hea, which kills them off by the bushel farms where there is no creek, and a every night. And if kept in the sun creek is a dangerous thing, as there without shade, they will be sunstruck are minks and other animals that will and die. The pens should be placed so prey upon the flock at night and kill

Sorting them Out.

Drakes may be sorted from ducks by the curled tail feather, which curls up-The ducklings should not be fed until ward. A duck quacks, a drake does thirty-six hours old. Then feed the fol- not. These become noticeable when lowing mash, barely wet with skim- the ducklings become four weeks of milk or water: One measure of crack- age. The ducks should never be hander or stale bread crumbs; one measure led as hens. Always carry them by the

Making money with ducks is not easy. It demands hard work, persistwater in vessels which will allow the into ready money in ten weeks, which beaks to enter, and not get the ducks is not possible with chickens, and the wet. After they have been in the fact that ducks are more prolific laythat the care which ducks should re-From one week to five weeks old ceive is not greater, should cause a larger number of farmers to enter this

POULTRY FEED SHORTAGE IN BRITISH ISLES.

ing their fowls was not coming in, poultrymen freely disposed of their flocks. In March eggs retailed at two dollars per dozen, which put them beyond the reach of people of average means. The British egg shortage has

Most All Farmers Take It.

"Do not know of ten farmers in this

Auto Thieves

Steal Many Cars from the Streets of Detroit

During the past two years many automobiles have been stolen that were left unattended on the public streets of Detroit. The police officers and insurance companies have made every effort to cope with these conditions. Many gangs have been broken up and prosecutions made, and a large number of auto thieves have been sent to prison.

The automobile owners have been requested to cooperate. It seems like extreme carelessness for any automobile owner to drive a nice car to the city and leave it unattended on the streets. This evil has caused a great deal of discussion among insurance companies and underwriters. Some feel that the owner should assume his own risk, and others that the owners should suffer a discount in case of loss where the car is stolen from the streets.

It is hoped that the coming summer, automobile owners will do their part in either having the car watched or else placed in a garage.

A reasonable man should do his part, and not leave all the responsibility on the police officers and insurance companies.

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Baby Chicks by Parcel Post. Bred-to-lay S. C. White Leghorns, \$12 per 100. Barred Plymouth Rocks \$15 postpaid. Hatch every week. Order direct from this adv. Sunnybrook Poultry Farms, Hillsdale, Mich. C. G. Burroughs. Prop.

Barred Plymouth Rock eggs for hatching from full blood stock prize-winning strain \$1.50 per 13. J. A. BARNUM, Union City, Mich.

Barred Plymouth Rock Eggs \$5 per 100, baby chicks from June 10th to June 20th \$12 per 100. Purebred, H. H. Pierce, Jerome, Mich.

Barred Plymouth Chicks \$15 per 100, prepaid by Pure Bred Poultry Farms, Lawrence, Mich.

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Hartford, Mich.

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FOR SALE-8. C. White Leghorn Chix \$12 per 199; hens \$1.25, Ferris 200 to 264 egg strain. Herbert Hammond, Williamston, Mich.

Hatching Eggs-Plymouth Rocks (all varieties) An-conas, Pekin and Rouen Ducks, Sheridan Poultry Yards, Sheridan, Mich

IMPROVE YOUR POULTRY My Bred-to-lay Young's Strain S. C. White Leghorn and Ancona chicks are great monoy-makers. 193,093 strong, husky chicks @ \$11 up per 100. Chicks sent by mail: Arrival and satisfaction guaranteed. Prompt shipment. Get my catalogue at once. w. VAN APPLEDOUN, R. 7, Holland, Mich.

John's Big beautiful hen hatched Barred Rooks, good layers 33 eggs \$1, 1:9 \$8, hatch guaranteed. Propaid by mail. Photos circulars, John Northen, Clars, Mich.

LAYBILT S. C. W. LEGHORNS

Large, great layers, purs whits. Proved egg type from like ancestry. Not the "Best in the World" but none better for beauty and laying ability—Laybilt Leg-horas mean either better quality the same price, or the same quality at a less price.

Day Old Chicks. Prepaid Delivery Parcel post or express. Will hatch every week. Everfresh Egg Farm, Ionia, Michigan

Pine Crest White Orpingtons, hens and pullets \$3.00
Pine Crest each, eggs special price \$5 per I5, utility
\$12 per 190.
MRS. WILLIS HOUGH,
UTNE CREST FARM, Royal Oak, Mich.

RHODE ISLAND REDS and Plymouth Rocks Males 5 to 12 lbs., according to age \$3 to \$8: P. R. hone weight 5 to 13 lbs., eggs 15 for \$1.50: 100, \$8: Mammeth Bronze Tom Turkeys 8 to 38 lbs. according to age \$6 to \$.5, 10 eggs \$4. J. Morris & J. Barsan, Vassar, Mich.

ROSE COMB Brown Leghorns from winners at Pairs. Eggs 81.50 per 15, 25,00 per 100.

Hilledale, Mich.

R. I. REDS, both combs. Ohicks & eggs. Most popular strain in Michigan. Write for catalog. INTERLAKES FARM, Box 39, Lawrence, Mich.

CILVER Spangled Hamburg eggs for hatching to per handsomest and most economical to raiso.

RIVERVIEW FARM, Vassar, Mich.

Single Comb Black Minorca cockerels, sired by a 10th cock bird. A few more P.O. fall pigs. R. W. MILLS. Saline, Mich.

CILVER Golden & White Wynndottes. Four Golden Cockerels \$2.50 each. Egg (15, \$2.50; 3), \$5 by P. Post prepaid. O. W. Browning, R. 2, Portland, Mich.

S. C. Brown Leghorns, Heavy layers, Eggs 15-\$1.10, 30-\$2.00, 45-\$3.00, 100-\$5.50 prepaid by mail, FLOYD ROBERTSON, R. I. Lexington, Indiana

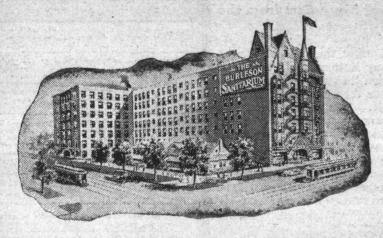
Single Comb Brown Leghorn eggs for hatching, 15 eggs \$1.25. 120 eggs \$5. Frank Camburn, R. 4, Saline, Michigan.

SPECIAL 39 eggs \$2.25 R. I. Reds, Rose or INTERLAKES FARM, Lawrence, Mich.

W hite Wyandotte eggs for hatching also baby-chick out of choice stock; send for a 1918 circular. DAVID RAY, 709 Norris St., Ypsilanti, Michigan.

M. B. Turkeys, Toulouse Geese and S. C. W. Leghorn cockerels. Also Berkshire, both sex. Stamps appreciated. Chase Stock Farm, R.I. Mariette. Mich.

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.

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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.

Wildwood Farms

Breeders of Best Strains of **Aberdeen Angus Cattle**

and Duroc Jersey Hogs

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

WOODCOTE ANGUS

Ohicago for 1917. WOODCOTE STOCK FARM,

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

For Sale-Three Aberdeen Angus Bulls ready for prices reasonable. LANG BROS., Davison, Michigan

GUERNSEYS must reduce herd, so offer a few choice females of the distribution of the d

Registered Guernseys

Guernseys 45 Registered head, all th. tested. Nora's May Ring, son of Imp. May Rose King, heads our herd, 19 of his half sisters sold averaging \$1950 each. His bull calves are booked ahead at reasonable prices. Avondale Stock Farm, Wayne, Mich.

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

For Sale 5 Imported in dam Registered Guern sey heifers, 8 months old, also bull calves. E. A. Black, B. 3, Howard City, Mich.

CLUNY STOCK FARM

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

SIDNEY SMITH. Supt.

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

R. BRUCE McPHERSON, Howell, Mich.

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

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 Lenawee Pontiac Calamity King offer Registered Holstein bull calves from A. R. O. cows and the above sire whose dam holds the milk and butter record in the state of Ind. 7 days milk 796.3, butter 22.51—315 days milk 23782.3, butter 928, 75.

E. H. GEARHART & SON. R. 4, Marcellus, Mich.

Letters from Our Readers

We would like a word from you regarding any of the important issues that confront Michigan farmers. Whether you think as we do or not, we would be glad to know your opinion. In writing make your letters brief-short ones are more interesting.

Sincerely yours, THE EDITORS.

Farmers' Rights

who has been speaking right out in to charge. meeting. He says that while we have tickled to receive one straw.

the farms, with young men going into stores keep it in package form, and paid "all that it costs, plus ten per cent ago, put up by a well known manufacprofit," which means, of course, high turer of breakfast foods. I looked it wages. How can the farmer, who hires over and noticed that the printed statehis help and runs all the risk of bad ment was that the package contained a compete with manufacturers whose expenses are guaranteed, plus a profit? cent an ounce, \$320 a ton. There ought of millions, as Congressman Baer says, are taking advantage of the war condimanufacturing war material, this same dred per cent. It's worse than highgovernment cannot spare a few mil- way robbery. If the retailers charged lions for the farmer whose work is any such prices for bran, as a stock quite as important in winning victory food, they would be haled into court in the present conflict.

At bottom the trouble is that the test here and there fall on empty air, the process .- A. L., Eaton Rapids. The farmer is independent. He likes to be let alone. He has always had the rough end of the stick, the big end of the burden, and to this day he is inclined to spurn even the well meant, sources. However, the question is, is tions are financed?

People in cities as a rule have very wrong ideas of the farm situation. Because some farmers are buying automobiles it is assumed that all farmers are getting rich. They should talk with the farmers who went into onions and beans and potatoes quite extensively last season, and should ask them also about their corn crop. They might ask Michigan farmers about their crops in general for the past three years. Better still, these city people might strip off their good clothes and go out into the deep country and try it and be disabused of some of their notions. After fighting bad weather, bugs and disease, soil conditions, poor seed, hazards they would come to have very wholesome respect for the farmer.

The farmer, every inch of him, is a ahead anyhow, assuming all the risks you are. of his business, and raise every pound try of them all, that of the manufac- misfortune. ture of food on the farms, and the fact strenuous days. A. G.

WHEAT BRAN PRICES.

I cannot see wherein the buyer gets much benefit from the price fixing in feeds. Of course, one should eliminate first and highest virtues. It begins the jobber and retailer, if he can, and with saving money.—Abraham Lincoln.

buy directly from the mill, but the ORTH DAKOTA has a young has controlled his entire output, and farmer, representing his district the ultimate consumer is held up for in the lower house of congress, any old price that the retailer sees fit

Quite a good many people nowadays been handing out to the corporations are eating a ration of bran as a part and industries an entire haystack, or of their breakfast, and, of course, it is, \$4,500,000,000, the farmers would be in most cases, doing them good. I own up to a liking for it, and last fall was The vital thing in this war is food. able to get some at the mill, and when Food comes from the farms. The la- the supply gave out during the winter bor problem is growing very serious on sent for more, but could not get it. The the army and navy and into the war one can get it that way, if they pay the industries where the manufacturer is price. We got a package a few days weather, short crops and low markets, pound and four ounces, net weight. The price paid was twenty cents, or a While the government has thousands to be a way to reach these people who to finance big corporations that are tions to make a profit of several hunand made to pay the penalty, but as they are only robbing the people who farmers are not organized and the are eating bran and saving flour, I supscattered voices that are raised in pro- pose they will be allowed to continue

CAN'T PAY DEBTS, AND WHY.

My greatest problem as a farmer has been the maintenance of my credit in bonafide offers of assistance from all the face of a constant stream of debts and obligations that are ever maturing. it not time now to guarantee him a And it is not at all comforting to know fair return for his work, as corpora-that the commercial people are busy tions are guaranteed, and to help him taking my measure and publishing my finance his enterprise as the corpora-record among themselves for their con-

> I maintain that no man can commence farming as I did, without capital and make any material progress without incurring many little debts and ob-

> All debts, taxes, interest, depreciation of buildings and tools, maintenance of an increasing family according to American standards, all constitute certainties.

> On the other hand all his resources -crops, stock, health of himself and family, constitute uncertainties. Crop failure or any misfortune may wreck him at any time.

The business world is becoming market uncertainties and a few other more and more relentless-itself founded on a system of exactness, it demands promptness from the farmer, but the farmer cannot in turn compatriot in this war. He is willing to go mand nature and the elements. There

The present war has shown more of food stuff that he can in this great plainly than ever before how dependcrisis. But it does seem as though this ent national existence is upon the soil. great government of ours should be If society is vitally dependent on the quick to recognize the greatest indus- farmer it should insure him against

If government ownership of the land that the farmers have rights, along is too socialistic, and some system of with the other manufacturers in these crop insurance is impractical, why not have the government establish prices for all commodities—that would eliminate the uncertainties of a fluctuating market at least .- F. D., Galien, Mich.

CATTLE

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.

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

A Few Fine Bulls For Sale

Bigelows Holstein Farms, Breedsville, Mich.

\$50 gets 1 mo. old son Pontiac Hesperia 2d. 14 tuber. Terms, 18ee April adv. for females. M. L. McLAULIN, Redford, Mich. Stonyhurst Stock Farm

Has a few fine bulls for sale. Are offering one this week from a 21.79 lb, Jr. 4 and sired by Pet Johanna Sir Hartog whese daughters are just coming fresh, one at 2% years has a 25 lbs. record.

This youngster is 3 mos. old finely marked, straight and weighs 350 lbs. his full sister has just made at 1 year II mos. 17.64 of butter, 456.5 milk 7 day. Priced Oheap.

F. A. BABNETT & SONS, Rochester, Mich.

The Pontiac Herd

"Where the Champions come from"

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

Do you want a Pontiac in your herd?

Pontiac State Hospital, Pontiac, Mich.

HOMESTEAD FARMS

A Federation of Interests

folsteins -- A herd of high class Holsteins; Young

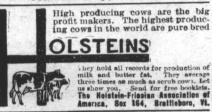
Will you write to us for full description and photographs?

HOMESTEAD FARMS, Bloomingdale, Mich

The Traverse Herd Great Values In Bulls

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

TRAVERSE CITY STATE HOSPITAL, Traverse City, Michigan.



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.

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 pedigree and price. F.O.B. your station.
E. E. STURGIS. R. 3. St. Johns, Mich.

Holstein calves, 25 helfers, & 2 bulls 15-16ths pure, 5 weeks old, beautifully marked, & 5 each, crated for shipment anywhere. Buy only the beautifully marked, & 50 EDGEWOOD FARMS. Whitewater, Wis.

Parkside Holstein bull. Sired by son of Maphecrest Pentiac Application, Yearly record 1344 lb. butter. Also Percheron Stallion. J.E.Tirrill & Son, Charlotte, Mich.

For \$210 5 splendid, registered Aberdeen Angus 2 yr. old heilers. Or would exchange for good registered Holstein females, Robert Smith, Caledonia, Mich

HOLSTEINS - 16 grad, all 3 years old, soon. Apply W. L. KLEIN, Farmington, Mich., 1 mile west of electric car at North Farmington.

HEREFORDS

6 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 O. 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.

Alvin Balden. Capac, Mich., Phone 143-5.

Maple Lane R. of M. Jersey Herd. For sale one of four-year-old cow, also buil calves and heifer calves sired by a grandson of the Pois 99th of Hood Farm. IRVIN FOX, R. 3, Allegan, Mich.

For Sale Jersey Bull Goldie's Foxhall No. 161985. Dropped March 22, 1917. We maintain Solid color, black tongue & switch. A fine individual and Scotch 1 large of his age, will sell cheap. Also a young cow & several bred heifers, all of solid color.

NEWMAN'S STOCK FARM, E. I. Marletts, Mich. P. P. POPE.

Michigan Shorthorn Show and Sale

To be Held in the City of Flint

Monday, June 3rd

75 HEAD

35 Bulls and 40 Cows

A great many cows with calves by their side and safely in calf again.

All those in the market for good general purpose cattle that are right, are invited to attend.

Catalogues on Application

W. W. Knapp, Mgr., Howell, Mich.

Andy Adams, Auctioneer



Choice Reg. Jersey Bull Calves, 2 bulls 3 most than 40 lbs. monthly grandsons of Majesty's Western King. Price \$50 reg. & transfered. FRED A. BRENNAN.

Capao, Mich.

JERSEY bull and bull calves for sale from R. of M. cows, also beifers and cows of all ages.

O. B. WEHNER, R. 6, Allegan, Mich.

Jerseys for sale Ready for service bulls
Majosty, breeding. WATERMAN & WATERMAN
Meadowland Farm, Ann Arbor, Mich.

Lillie Farmstead Jersey Cattle. Several heifers bred Lto 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. coyandson of C. & O. DEAKE, Ypsilanti, Mich.

SHORTHORNS For Boof 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.

For Sale Registered Jersey Cattle

Richland Farm

Shorthorns.

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

O. 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, properly handled and price reasonable. Come and see; we like to show them.

P. P. POPE.

Mt. Pleasant, Mich.

Shorthorns. Three scotch bulls ready for service. Price reasonable. W. B. MoQUILLAN, R. 7. Howell, Mich.

Shorthorns Maxwalton Monarch 2nd. 387322 half brother to 5 Grand Champions in service. JOHN SCHMIDT, B. 5, Reed City, Mich.

CON of Harthorth Welfare heads our herd of milk-ling Shorthorns Comprising Chifley of Clay bred cows, young hulls ready for sale and service, write us Liddel Bros., R. 2, Clinton, Mich., Macon Phone.

1867-1918 Maple Ridge Herd of Shorthorns sale. J. E. TANSWELL, of Shorthorns of Shorthorns and bull calves for Mason. Mich.

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

S. E. BOOTH. Morrice, Mich. Shorthorns-- Sired by a grandson of Cyrus Collar Bros, R. 2, Conklin, Mich.

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.

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

J. B. HUMMEL, - Mason, Mich

Scotch Shorthorns for sale, 5 bulls ready for service.
John Lessiter's Sons, Orion, Mich., R. F. D.

SHORTHORNS Cows, heifers & young buils for sale at farmers prices, herd catalog mailed free. Horrieton Farms, Hart, Mich.

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

Scotch Shorthorns: 1 Red Bull 14 months old; 1 red bull calf 8 months old.
W. C. OSIUS, Hillsdale, Michigan. Grand Traverse Shorthorn Asso. Reg. stock for M. E. DUCKLES, Sec.. Traverse City, Mich.

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

Cattle For Sale Loan show you any number 1, 2 and 3 years old from 600 to 1200 lbs. Isaac Shanstum, Fairfield, Iowa, B-8

HOGS

DURGOS Orion Chief Perfection No. 68945, and Jennings PilotWonder No. 73373. Two outstanding boars of big type and excellent quality. All selected large type smooth sews. Thrifty, smooth, large boned spring gits from these herd boars and choice sows at very reasonable prices. The Jennings Farms, Bailey, Mich.

50 Duroc Sows and Gilts for fall farrowing, bred to Orion's Fancy King 83857 the biggsst pig of his age ever shown at Inter-national. I mile N. E. of town. Visitors welcome 7 days in week. Newton Barnhart, St. Johns, Mich.

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

Duroc fall boars sired by Orimson Oritic T., Catisfaction and Brookwater Principal, priced right. Bred sows all sold. M. C. TAYLOR, Milan, Mich.

Durocs Can spare two or three bred daughters of Joe Orion 2nd the \$5000 boar.

A. FLEMING.

Lake, Mich.

CAREY U. EDMONDS, Gilts For Sale.

DUROCS service boars, bred sows, fall pigs. Express paid.
J. H. BANGHART, E. Laneing, Mich

Duroc disc Shorthorn bulls, calves, milking Strain.



Spring Pigs for sale. Pairs and tries not akin J. D. GRANE & SON, Plainwell, Mich.

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

Chesters Early spring pigs either sex in pairs or trios. One extra good fall boar. F. W. ALEXANDER, Yassar, Mich.

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

Cass City, Mich.

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

O. I. C.'s all sold except some fall gilts. Order O. J. THOMPSON. Rockford, 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 's mile west of Depte, Utizens phone 124. Otto B. Schulze Nashville, Mich.

O. I. C.'S Big type serviceable boars. Spring far-rowed boar pigs. Bred gilts to farrow July and Aug. G. P. ANDREWS, Dansville, Mich.

O. I. C. gilts bred for Aug. and Sept. farrow. ship. F. C. BURGESS, Mason, Mich. R. F. D. 3

O. I. C's. Large type, spring pigs bred from State Clover Leaf Stock Farm, R. 1. Monroe, Mich.

A Great Opportunity
We are offering one of our herd sires, Big Type Poland
China Yearling Boar. His sire a prize winner at
Ksnasa State Foir, His dam a prize winner at Missouri,
Iowa, Kansas and Nebraska State Fairs. A splendid
Spring pigs for sale.

HILLCREST FARM, Kalamazoo, Michigan

FOR SALE
Smooth Jumbo a grandson of Peter Mouw's old boar
Smooth Jumbo a 690 lb. yearling. A top notcher fit to
head any herd. Also some nice bred gits at \$50.
If you get one you will have to hurry.
J. C. BUTLER,
Portland, Michigan.

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

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

Nothing for sale at present. Spring pigs O.E. GARNANT, Eaton Rapids, Mich.

Large Type P. C. Bred gilts and boars all sold nothing to offer at present W. E. LIVINGSTON, Parms, Mich

LEONARD'S Bred sows all sold, fall pigs, orders booked for spring pigs at weaning time. Shipped C.O.D. E. R. LEONARD, St. Louis, Mich. 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.

816 TYPE Poland Chinas: Brood sows all sold. Have a few fall pigs. Prices right.
L. W. BARNES & SON. Byron, Mich,

L. S. P. C. all sold out, except the largest farrow. H. O. SWARTZ, Shoolcraft, Mich.

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

HAMPSHIRE PIGS-We have some very choice spring pigs, Messenger and General Allen blood line, perfect belt and good bone. Write your wants. L. D. O'BRIEN, R. 2, Jackson, Michigan.

Percherons, Holsteins, Angus, Shropshires, Durees DORR D. BUELL. Etm Ira. Michigan.

Percheron Stallions and mares of reasonable prices; inspection invited.
F. L. KING & SON. Charlotte, Mich.

No more Registered Percherons for sale at present.

J. M. HICKS & SONS, R. 2, Williamston, Mich.

FOR SALE Two Registered Percheron stallions and two Percheron mares at the right price. E. J. ALDRIOH. Tekonsha, Mich.

Shetland Ponies, Fox Hounds, Young Coon Hounds and Belgian Hares. W. E. LEOKY, Holmesville, Ohio.

Additional StockAds on Page 676



SECOND EDITION.

The markets in this edition are re-vised and corrected on Thursday afternoon, May 23.

WHEAT.

No wheat is reaching the Detroit No wheat is reaching the Detroit market at the present time and other cities are receiving very magre supplies. The new crop is showing improvement in a larger part of the winter wheat districts, although in a few sections of the more northern states the prospects are not as good as they appeared to be a few weeks past. A year ago No. 2 red wheat was quoted at \$3.02 per bushel on the local market. Present quotations at Detroit are: Present quotations at Detroit are:

No.	2	red wheat\$2.17	
No.	2	white 2.15	
No.	2	mixed 2.15	

CORN.

The feeling in this market is gradually becoming more bearish although

No.	3	corn .		\$1.40
No.	3	yellow		1.55
		vellow		1.45
No.	5			
	100	- C. S. C. C. C. C. C. C. C.	성격에 있는 없다면 이 경기를 했다.	

The Chicago prices are advanced over those of last week. Present values

TO SHARE STORY	corn		
July		1.41½	
		OATS	

Star	nd	ard								.791/2	
No.	3	whi	te				 			.79	
		whit									
	459		1876	-	T. 7	-					

RYE.

About the only activity noted in this market is a little bidding by exporters who, however, are not anxious enough for the grain to give any firmness to the trade. Cash No. 2 rye is quoted on the Detroit market at \$2.05 per bushel.

BEANS.

Michigan farmers are marketing their beans quite liberally at the present time, and as a result of these new supplies on the market, prices have sagged during the past week. The local basic price for immediate and prompt shipment is \$10.25 per cwt. At Greenville, Mich., the elevators offer \$8.75 per cwt. Chicago is handling a very limited volume at about steady prices.

Mich. pea	beans.	h.	p	 	\$ 12.00
Red kidne	VS			 	10.00@13.00
Brown Sw	edish .			 • •	.10.50@11.00

FEEDS.

There is a probability that with the heavy manufacture of corn products, an increased amount of hominy feeds at lower prices than have obtained during the past months. Detroit feed prices in 100-lb. sacks are reported on the market as follows:

Bran	\$37.00
Standard middlings	39.00
Middlings, fine	45.00
Cracked corn	65.00
Coarse corn meal	64.00
Chopped feed	53.00
V	

Hay is in sufficient supply and buy-ing is not active. It is a quiet and

asy market. Detroit	quotations are:
No. 1 timothy	\$20.00@20.50
Standard	
Light mixed	19.00@19.50
No. 2 timothy	
No. 1 clover	16.00@16.50
PittsburghMarket	dull and draggy

ľ	ig pr	.1C	es being:	
	No.	1	timothy	24.00@24.50
	No.	2	timothy	21.50@22.50
	No.	1	light mixed	20.00@21.00
	No.	1	clover mixed	15.00@16.50

Per 196 lbs. in eighth paper sacks,

POTATOES.

The general potato situation showed The general potato situation showed some improvement during the present week. Eastern markets were especially firm in the demand for old stock. While Detroit had an easy tone early this week the deal now shows a firmer feeling, with the quality of the offerings generally in good condition. Indianapolis seems to be getting adequate supplies at present, as is also the case with Pittsburgh and Cincinnati. Jobbing prices for Michigan nati. Jobbing prices for Michigan stock U. S. Grade No. 1, sacked, and the present condition of the respective markets as collected over the wire by the Bureau of Markets Detroit Office, are established.

Detroit (steady)	\$ 1.16
Cleveland (moderate)	1.35@1.40
Buffalo (steady)	1.35@1.40
Pittsburgh (weaker)	1.20@1.35
Columbus (higher)	
Cincinnati (steady)	
Indianapolis (fair)	1.25

At country points in Michigan prices are now ranging as low as 50c for the round whites U. S. Grade No. 1 in bulk at side tracks, with top prices around 60c and a few higher. The same grade is bringing 75@90c at country loading points in Oregon.

BUTTER.

While prices are not much changed from last week, a slightly easier tone prevails in the butter trade, due to a general increase in production over practically the entire country as pastures are unusually good. Inactivity of many milk condensaries is obliging producers in some instances to make butter instead of selling their milk. Food Administration issues rules and regulations for the storage of butter and cheese, this week, following which there is likely to be a greater interest in the storage of butter for future consumption. Local prices are about the same as a week ago. The Detroit exchange quotes extra fresh creameries at 41½ 42c; a few houses offer preat 41½@42c; a few houses offer premiums above these figures. Fresh creamery firsts are quoted at 40½c. The New York trade rules about steady with receipts for last week showing a considerable increase over the previconsiderable increase over the previous week, but less than a year ago, and the total since May 1 is nearly ten per cent under the receipts for the same period of 1917. Best creameries were quoted Wednesday at $45\frac{1}{2}$ @60c; extra do $44\frac{1}{2}$ @45c; firsts 42@44c; packing stock $29\frac{1}{2}$ @30c. The Chicago market is also steady with creameries unchanged at 35@42c. In Philadelphia creameries are $45\frac{1}{2}$ c for extras and fancy at 50c. fancy at 50c.

CHEESE.

While the buyers have been holding back recently and merely taking enough cheese for their immediate requirements, excepting that prices would be declining by this time, they have been disappointed and are obliged to replenish supplies at the old figures. Local trade is about steady with last week, flats ranging from 21@23c for new and from 24@25c for old; Daisies 21½@22½c; Limburger 21@22½c for new and 25@26c for held stock. The Philadelphia market is from easy to steady, with full creams quoted at 22@25c. The New York trade is steady with state fresh specials at 23c; average run do 22@22½c. While the buyers have been holding day.

EGGS.

The Department of Agriculture has issued a communication urging store keepers and hucksters not to accept washed eggs for shipment in case lots. All such eggs should be sold locally for immediate consumption. Shipments to All such eggs should be sold locally for immediate consumption. Shipments to the largest markets have substantially increased the past week, resulting in a fractional decline in values. Michigan eggs are bringing 32½ @33½ c from the jobbers in Detroit, with occasionally lots going one and two cents above these figures; current receipts quoted sold locality in the largest markets have substantially such that the largest have s

and only the better grades wanted, ruling prices being:
No. 1 timothy......\$24.00@24.50
No. 2 timothy....... 21.50@22.50
No. 1 light mixed..... 20.00@21.00
No. 1 clover mixed.... 15.00@16.50

FLOUR.

Per 196 lbs. in eighth paper sacks,

WOOL

The War Insurance Board has approved of the following cities as distributing centers for fleece wools. Detroit, Chicago, St. Louis, Louisville, Boston, New York, Philadelphia, Baltimore and Wheeling, W. Va. As previously announced the prices as fixed by the government for the 1918 clip is to be the same as obtained July 30, 1917, which for Michigan fleeces has been determined at \$1.20@1.25 on a scoured basis.

GRAND RAPIDS

No old potatoes were offered by the No old potatoes were offered by the farmers on the city market Monday morning. Carlot movement through the state has shown some improvement during the past week, with quotations at country loading stations ranging from 50@60c for No. 1 round whites in bulk. Quotations on beans range from \$9@10. \$9@10:

DETROIT CITY MARKET

Our representative reports a lively city market this week with the bulk of the offerings consisting of truck crops. Prices were found as follows: Potatoes 70c per bu; carrots 80c; parsnips 75c; lettuce 90c; radishes \$1.75; asparagus 70@90c per dozen; eggs 40@42c; dressed poultry 35@36c per lb.

LIVE STOCK DETROIT

May 22, 1918. Cattle.

Receipts 1239. Good prime steers teady, while butchers rule 15@25c higher. 7.00@ 7.50 9.75@12.00 7.75@ 9.00 7.00@ 8.00 Good stockers, dehorned. 9.50@10.50
Milkers and springers 55@ 115
Veal Calves.
Receipts 967. Market is strong.
Best \$14.50@15.00
Others 10.00@13.00
Sheep and Lambs
Receipts 1,354. Market steady.
Best lambs \$16.00@16.25
Fair lambs 15.00@15.25
Light to common lambs 10.00@11.00
Fair to good sheep 10.00@12.50

Fair to good sheep 10.00@12.50 Culls and common 7.00@ 8.00

Hogs.
Receipts 3,007. Good pigs steady at \$18; mixed \$17.80, or steady with Mon-

BUFFALO.

Cattle. May 22, 1918.

article and the second of the control of the second of the
Receipts today two cars; market to-
day is steady with Monday and Tues-
day at the following prices:
Prime heavy steers\$16.75@17.75
Best shipping steers 16.25@17.00
Fair to good 14.75@15.75
Plain and coarse 13.00@14.25
Native yearlings \$14.75@15.75
Best handy steers 13.25@14.25
Fair to good kinds 12.25@13.25
Handy strs and hfrs mixed 11.75@12.50
Western heifers 12.25@13.75
Best fat cows 11.75@12.50
Butcher cows 8.75@ 9.75
Cutters 7.75@ 8.50
Canners 5.00@ 6.25
Grazing cows 7.50@ 8.00
Fancy bulls 11.50@13.00
Butcher bulls 10.00@11.00
Common bulls 8.50@ 9.50
Best fdg strs. 900-1000 lbs 10.50@11.50
Medium feeders 9.50@10.50
Light common 8.00@ 9.00
Stockers 8.50@ 9.50
Williams and anningons ect of the

8.50
9.10
9.10

Receipts four cars. Market is strong at steady to higher prices.

CHICAGO.

May 22, 1918.

Our cattle market here on Wednesday was weaker with receipts totaling 7,000. Prices for the day ruled as follows:

 Native steers
 \$10.50@17.65

 Stockers and feeders
 9.25@13.10

 Cows and heifers
 7.30@14.60

Bulk of sales	\$17.45@17.90
Light	17.45@17.95
Mixed	17.20@17.95
Heavy	16.50@17.75
Roughs	16.50@16.85
Pigs	14.75@17.60
Sheep and Lami	os.

HAPPENINGS OF THE WEEK.

(Continued from page 650). Saturday's explosion at Oakdale, Pa. Administration leaders are discussing the war revenue act in Washington.—United States government warns all unnaturalized German men and women not to go boating on any river, canal, lake or seashore this summer, and not to go within 100 yards of canals, wharfs, piers, warehouses, elevators and terminals. and terminals.

Tuesday, May 21.

East of Locre and just west of Mont Kemmel the French have advanced their line over a two-mile front. Near their line over a two-mile front. Near Rheims they have also gone as far as the third line trenches of the enemy. All along the front before Amiens heavy artillery firing is reported.—Germans have lost several aeroplanes in the sectors defended by American troops.—General Von Buelow is reported to have been definitely located in command of a new army before Arras.—In Italy fighting is brisk on the mountains east of the Brenta river.—French troops have taken the offensive near Ochriba in Macedonia.—President French troops have taken the offensive near Ochriba in Macedonia.—President Wilson signs bill and proclamation which calls for about 1,000,000 men who have reached the age of twenty-one since June 5 last, to register for military duty on the fifth of next month.—Reports show Michigan to be the first state in the Union to subscribe its full quota of \$3,000,00 for the national Red Cross.—Charles W. Fairbanks, former vice-president, is critically ill at his home in Indianapolis.

Wednesday May 27

Wednesday, May 27.

Michigan soldiers are reported in the first line trenches.—British aviators bombard the fortress of Metz and Coblentz.—One thousand German aeroplanes have been brought down since German offensive started in March.— Austria is rushing men to Italy.—The Austria is rushing men to Italy.—The Turkish troops operating in Asia Minor have mutinied.—Allies thrusts on western front delays German offensive.—British casualties for the week ending May 21 total 36,677.

Thursday, May 28.

Sinn Feiner leaders arrested in connection with the German-Irish plot will be executed.—Extraordinary activity by the aerial squadrons is noted be-

MILK NEWS FROM THE FIELD SECRETARY.

(Continued from page 654). in this great problem. While we desire and propose to see that our members receive a fair compensation for their milk, and a fair test for the butter-fat, yet we realize that if this great industry is stabilized and given the dignity that it should have in Michigan, it will require good milk and honest dealing from the milk producers of the state, and your Association is going to exercise itself just as energetically to weed out the dishonest producer as we are the dishonest buyer.

Recently a producer was very insistent upon an equitable adjustment with of the Michigan Milk Producers' Association. The buyer yielded to see that the footing is not hard will do no particular harm. of the Michigan Milk Producers' Association. The buyer yielded to a settlement far in excess of the Milk Commission's findings. Within six hours are now about three or four weeks old, after the time of this settlement this and I never had such a fine lot before.

The best of these lambs seem to be

It is now a good time to be real producers for the dairy industry. All should at this time be determined to improve their herds by the weeding out of unprofitable animals and the holding, against a seeming present loss, of the better animals of the herd. We are confident that the dairymen who now weeds his herd carefully and builds intelligently, working not only days the writer has received several improve their herds by the weeding for today but for years to come, will have every reason to be satisfied in the future.

Milk meetings were held recently at Morenci, Metamora and Birch Run, and a commission meeting at the Hotel Cadillac, Detroit.

MICHIGAN LIVE STOCK NOTES.

as follows: President, Charles Carlson, Leroy; vice-president, Spencer over 350 head of registered Shorthorns asking for twenty-six cents and twenwere present and Osceola county is one of the leaders in this breed of cattle. In is planned to encourage use of purebred sires and the raising of Shorthorn lambs which netted him \$3,411.83. hold sales from time to time.

The Tri-State Live Stock Dealers' Association held its annual meeting at Hillsdale and re-elected these officers: President, Frank E. McConnell, Coldwater; vice-president, David Cortright, Homer; secretary, R. W. Rowe; treascount of the government running the to transportation.

sale, Grand Rapids, under the auspices portions. of the West Michigan Holstein Breed-

food administrator, was the third man. tration for its approval.

Veterinary.

CONDUCTED BY W. C. FAIR, V. S.

Exostosis.—I have a three-year-old colt that has a bunch on the inside and lower part of knee joint which one of our local Vets. calls "spavin on knee." Whatever this bunch is, it makes him quite lame when trotted. What can be done for this ailment and work the horses? J. B. B., Hastings, Mich.—Apply one part red iodide mercury and eight parts lard occasionally. This bunch is doubtless a splint situated high up and perhaps interferes with the lower portion of joint. It is perhaps needless to say that an animal in this condition should not be driven fast er than a walk, but doing farm work where the footing is not hard will do no Exostosis.-I have a three-year-old

after the time of this settlement this milk producer boasted that he had "pulled one over" on the Michigan Milk Producers' Association and the buyer, and that he had been skimming his milk the entire month past. This kind of contemptible, petty thievery is ruinous to our market and will bring the entire milk industry into disrepute. It is the purpose of your Association to protect the great majority of its members, who are honest, against dishonesty either within or outside of its own membership. The fellow who is skimming or watering his milk need expect no quarter when he is caught.

It is now a good time to be real walk and I never had such a fine lot before. The best of these lambs seem to be taken suddenly sick, are hardly able to walk, just drag along and some of them are unable to walk at all and have the appearance as if they were partially paralyzed. They lie on the ground as if nothing ailed them, but are unable to get up, but when assisted on foot and help up they get a little milk. Now I would like to know what is the cause of this ailment. Ever since I have been farming I have never had this sort of an experience with lambs. I have a suspicion that feeding silage is perhaps the cause. My ewes were fed our or five bushels daily and I had fifty head. This was their morning feed; at noon they were fed oat straw and in the evening a bushel of oats with mixed clover and timothy hay. and in the evening a bushel of oats with mixed clover and timothy hay. When the lambs took sick I discontinued feeding silage and turned the ewes days the writer has received several letters from sheep raisers asking in-formation regarding this same lamb ailment and in each case the ewes had been fed on silage for some little time, and after making a change in their ewes' food supply, the lambs began to recover, unless they were exceedingly weak. Give each lamb three drops of tincture cinchona, five drops tincture gentian at a dose in a tablespoonful of milk or water four times a day. The lambs, should be kept warm and drops. Farmers interested in the improvement of Shorthorns met at Reed City and formed the Osceola County Shorthorn Breeders' Association with officers they recover and regain lost strength.

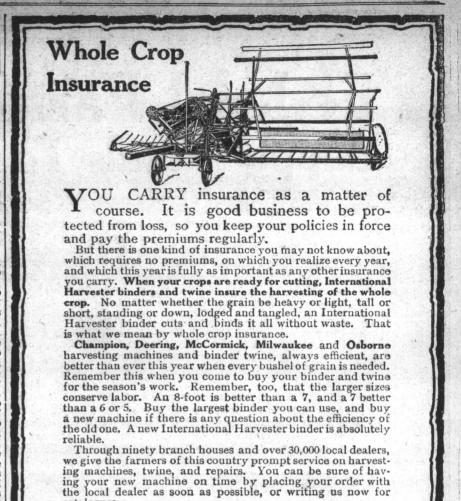
The price fixed was twenty-one cents Postal, Evart; secretary-treasurer, Jno. a gallon on the farm, or twenty-three Schmidt, Reed City. Breeders owning cents delivered. The farmers were ty-eight cents.

Myron Van Patten, of Litchfield, Hillsdale county, shipped a load of 222 calves by the boys' and girls' clubs, to They were bought last fall and averbring in buyers from outside and to aged fifty-six pounds apiece. After the winter's feeding they averaged ninetyone pounds without the wool, and an average of seven and a half pounds of ool apiece.

The Houghton County Live Stock Association has received a shipment of 350 ewes and seventeen lambs from urer, John Bowditch, Pittsford. On ac- Montcalm county and two cars were unloaded at Houghton and one at Chasrailroads no action was taken in regard sell. They will be divided among ninety farmers. Pure-bred rams will be Seventy-seven head of registered brought in and it is planned to start brought in and it is planned to start a wool and mutton industry in the will do well if fed a slop composed of o.E. Hawley. R. S. Ludington, Mich. the fourth annual spring consignment county that will develop to large pro-

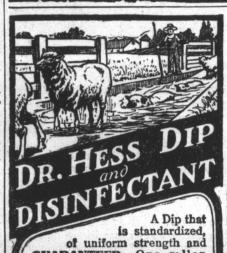
of the West Michigan Holstein Breeders' Association. A feature was the sale of a ten days' old calf donated by Dudley E. Waters, of Maryland Farm, for Comstock Park auxiliary of the Red Cross, the calf bringing \$306.60.

The milk strike at Muskegon was settled by a mediation board of three members, representing the farmers and dealers, while Carl Young, county food administrator, was the third man.



International Harvester Company of America

McCormick



CHICAGO

Champio

GUARANTEED. One gallon makes 70 gallons of dipping solu-

For Scab, Ticks and Skin Troubles

Dr. Hess Dip and Disinfectant cleans and makes the skin healthy. It is more than a Dip—it is also a Disinfectant. Use it freely about stables, hog pens and poultry houses to destroy disease germs and maintain good health conditions. Also for home use in any tions. Also for home use, in gar-bage cans, sinks, cesspools. Sold by 28,000 dealers on a money-back guarantee.

Dr. HESS & CLARK

Those Growing Pigs

skimmed milk, butter milk, or, sweet milk, with

Dickinson's Rival Hog Feed or use water to make the slop if milk is not available.

Dickinson's Globe Chick Feed

makes strong chicks. Ask your dealer or write ALBERT DICKINSON CO., 605 Chamber of Commerce, Detroit, Mich.

PARLY White Pea Beans, hand picked, 1 bu. \$7.50; L. four bu. \$7.20 per bu.. sacks free, or mail your bags at \$7 per bu. Chester Whites and Polled Durhams ready to ship. Frank Bartlett, Dryden, Mich.

WAR NECESSITY FOR NURSES MET BY SPECIAL SUMMER CLASS

Milwaukee

BY SPECIAL SUMMER CLASS

As a war measure, Mount Sinai 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 offecing its facilities for a ten weeks' course in theory. Students will live at the hospital which is in close proximity to the University. No tuttion will be charged for the course at the university. Living expenses will be met by the Hospital.

This 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.





We are always in the mar-ket for fresh eggs. Write us for particulars.

AMERICAN BUTTER & CHEESE COMPANY,

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

FRUIT

We want your entire crop. Write for rub-ber stamp. The E. L. Richmond Co., Detroit

Dods

For Sale at farmers' prices, choice Collie pups, heelers. Chas. A. Beatty, R. 2, Box 2, Milford, Mich.

SHEEP

KOPE-KON FARMS.

Hampshires & Shropshires. It's a wise man who orders his ram for August delivery now,

About July 1 we will offer for sale choice Shropshire Rams.

ARMSTRONG BROS., R. 3, Fowlerville, Mich.

Some Good Breeding Ewes and registered BAMS for sale.

Barnard Sheep Ranch, R. 5, Clare, Mich.

Federal Farm Loan Bonds Supply Funds To Finance Farmers

The Federal Farm Loan Act has these big, vital, national purposes:

To provide capital for agricultural development.

To create standard forms of investment based upon farm mortgage.

To equalize rates of interest upon farm loans. To furnish a market for United States bonds.

To create depositaries and financial agents for the Government.

N carrying out these purposes Federal Farm Loan Bonds offer safe and sound long term investments for the thrifty, based on the assembled farm mortgages of America; increase farm production, and make it easier for farm tenants to buy and own farms.

Federal Farm Loan Bonds are issued by twelve regional Federal Land Banks. These banks and the entire system are examined, supervised and operated by the Federal Farm Loan Board, a bureau of the Treasury Department at Washington. Every Federal Farm Loan Bond is the obligation of the Federal Land Bank which issues it, and also of all the other eleven Federal Land Banks. Every Federal Farm Loan Bond is based upon massed and aggregated farm mortgages pledged as security. No mortgage is made for more than fifty per cent of the value of the farm as fixed by a Federal Land Bank Appraiser appointed by the Federal Farm Loan Board in Washington. The Treasury motto on farm loans is "safety first."

All loans are made through cooperative organizations of farm borrowers, termed National Farm Loan Associations, very similar in character to city building and loan associations. Each mortgage is guaranteed by the Association. In addition to the security of the farms themselves, each mortgage is backed by the resources of all the twelve Federal Land Banks, including a cash subscription by each association to the stock of the Land Bank equal to five per cent of all loans, and in addition thereto there is a five per cent double liability on the part of the borrowers. No farm loan security has ever been offered so strengthened and buttressed by Government inspection and control, and such adequate resources back of the obligations.

Federal Farm Loan Bonds bear five per cent interest, payable semi-annually, May and November, and, in the language of the Federal Farm Loan Act, "shall be deemed and held to be instrumentalities of the Government of the United States, and as such they and the income derived therefrom shall be exempt from Federal, State, Municipal and local taxation." It will be noted that this exemption is complete. Interest on these bonds need not be included in income tax returns. These bonds are issued in denominations of \$25, \$50, \$100, \$500 and \$1000 and in either coupon or registered form. They are due in twenty years and redeemable after five years.

The buying of Federal Farm Loan Bonds is not only a profitable transaction but is a patriotic act. This system enables the small farmer to borrow money on terms as favorable as the large farmer. For the first time in the history of American agriculture the farmer, through the issue of Federal Farm Loan Bonds, is enabled to secure the capital which he has so badly needed.

All mortgages issued under this Act are paid off in installments, so that with every interest payment there is paid an installment of the principal, and when the last interest payment is made the mortgage is extinguished. Each mortgage grows smaller year by year and the security is to that extent rendered greater. The standard form of mortgage now prevailing runs for thirty-five years,

and the first effect of the taking out of a mortgage in the Federal Farm Loan System is to put the farmer in easier circumstances so as to enable him to

Springfield, Mass. Louisville, Ky. Baltimore, Md. New Orleans, La. Columbia, S. C. St. Louis, Mo.

> This space contributed by Truman H. Newberry of Detroit

extend his operations, become a greater producer, buy more machinery, intensify his farming, supply himself with livestock, and otherwise take a stronger financial position. He becomes a better customer of the bank, of the store, and of the manufacturer.

Money is loaned under this system only for certain specific purposes, all connected with the development of agriculture. Land owners who rent their farms out cannot borrow under the Act. The financial pressure of the system is exerted always in the direction of strengthening the position of the actual farmer as against the landlord. Loans may be made for the following purposes and for no other:

To provide for the purchase of land for agricultural uses.

To provide for the purchase of equipment, fertilizers and live-stock,

To provide buildings and for the improvement of farm lands.

To liquidate certain outstanding indebtedness of

Such operations as the provision of necessary buildings, machinery, seeds, clearing, tiling, draining, fencing, etc., are carried on by farmers borrowing under this system on a large scale, and always with increased farm efficiency in view. The farmer who has financed himself through a Federal Farm Loan mortgage is at once relieved of anxiety as to the falling due of his mortgage. He knows exactly what he can do for thirty-five years in the future. The interest rate to him at present is five and one-half per cent per annum, plus a one per cent amortization charge, so that by the payment of six and one-half per cent per annum his loan is extinguished in thirty-five years.

Lack of capital and lack of skilled, reliable labor are the two greatest drawbacks to agricultural progress. Federal Farm Loan Bonds are doing their part to remove both these obstacles. With sufficient capital, labor-saving machinery and up-to-date equipment, will come a great increase in the farmers' productive power.

Whatever increases the earning power of the farmers of your community directly contributes to your own prosperity. The Federal Farm Loan System then is your affair as it is that of every American citizen. Put your shoulder to the wheel and start the sale of Farm Loan Bonds in your community. Buy as many yourself as you can afford and talk them to your friends and neighbors.

Federal Farm Loan Bonds are printed in the Bureau of Engraving and Printing in Washington, and have the same protection against counterfeiting that is enjoyed by the currency in your pocketbook.

In the language of the Farm Loan Act, Federal Farm Loan Bonds "shall be a lawful investment for all fiduciary and trust funds and may be accepted as security for all public deposits." You can offer your banker no better collateral.

You can buy Federal Farm Loan Bonds at 101 and accrued interest. Order through any bank, trust company, broker or express agent, or write to any one of the twelve Federal Land Banks:

> St. Paul, Minn. ana, Nebr. Wichita, Kans.

Houston, Texas erkeley Spokane, Wash.

or address:

FEDERAL FARM LOAN BOARD TREASURY DEPARTMENT WASHINGTON, D.C.

