

The Only Weekly Agricultural, Horticultural, and Live Stock Journal in the State. VOL. CL. No. 13 Whole Number 3986 DETROIT, MICH., SATURDAY, MARCH 30, 1918 \$1.00 A YEAR \$3.00 FOR 5 YEARS

# pposition to Boys' Reserve Speedily Waning

AN boys-untrained city boys of from sixteen to twenty years of age-be used to advantage on the farm? I put the subject as a question because there are still doubting Thomases and ultra-cautious Van Twillers mountfully shaking their heads in the negative-though happily their alls-this was a boy mind you, who'd er individual on that particular place. spring than it was a year ago.

Of course, there are types of farms the employment of young people at certain times of the year has always been more or less of a common practheir general mobilization for all kinds that's the way he did everything. He between sixteen and twenty years of of farm work had its inception. Three out of every four farmers-and for that matter three out of every four men who were in touch with the agricultural affairs in any way-were lined up at the time among the scoffers. For my own part, I happened to be living in a community where the reception of the boy idea was not merely cool-it was downright frosty. And I must confess I deemed the sceptism of my neighbors to be pretty well justified.

However, that was a year ago. We are in the spring of 1918 now and as becomes men of open mind, most of these sceptics have turned over a new leaf-myself among them-because the Michigan boy, where he has been given a fair chance, has for the most part made good as a farm helper, made good, as history tells us boys have always made good.

Of course, there have been failures, as might be expected in any project involving a large number of individuals, but their number as compared with the total number of boys who enlisted production has been few-in fact, I don't know of a single one myself.

On the other hand, I do know of boys who in answering the calls to that type we won't complain." farms have buckled down and come ple, a Grand Rapids boy, sixteen years couldn't lift half a sack of cement off have received letters from five hun-anxious that their brother farmers old, the son of well-to-do parents, with the ground, to a young man who could dred and sixty-five farmers, who had shall see the matter as they see it. other Grand Rapids high school youths, toss around about as much as any oth- boys on their farms last summer, and Of the Reserves Gov. Sleeper writes:

enlisted last spring in Kent county for work during the summer of 1917, not because he had to, but because he wished to perform some patriotic service even if it should be nothing more glorious than cleaning out calf stalls.

He signed up in the office of County Agent Smith for a job at \$10 a month, and then climbed into a highpower automobile and was driven by his chauffeur to a farm well in the country. The chauffeur dropped him at the g the boy doffed his tailored clothes for over-

In 1917 Hundreds of Chicago's Young Men Went to Assist Farmers in Caring For and Harvesting the Crops. Ninety Per Cent Proved Satisfactory According to Carefully Gathered Data. This Year These Farmers and Their Neighbors are Eager to Get the Young Men Back.

number is immensely smaller this never been near enough to work before to soil his hands.

the job.

"Didn't bother that boy any, though," hired man. tice, but barely a twelfth month has the farmer told me. "He got down to slipped by since the movement for business without a grumble. In fact, mer more than seven hundred boys,

Then there was another youth who

September, making him a full-fledged Statistics show that during last sum-



These High School Boys from the Best City Families have Practical Schooling in Care of Horse, Farm Machinery, etc., Before Reaching the Farm.

As for the boy, he changed in two lads made good.



In a Short Time these Young Men Became so Competent that Farmers Entrusted them with their Most Valuable Teams.

every one of these letters commended the boys and their work and expressed a desire to have a boy sent to them again this year.

Without doubt, many who are ridiculing this movement, are conscientious in the course they are taking, but the conclusions upon which they base their opposition have been deduced started out in June at \$15 a month, but from the erroneous data. In most cas-The farmer set him to cleaning calf who picked up the ways of the farm es it is assumed that these boys will in our fruit and beet districts where stalls-because none of his other men so readily that his employed voluntar. come to the farmer entirely uninformon the farm would deign to look at ily raised him to \$30 by the first of ed and inexperienced concerning the work. Nothing could be farther from the facts in the case. No boys will be sent out this year without first having been carefully instructed concerning the duties which they will be expected to perform. In Detroit, for example, the school board and the principal are cooperating with the government officials in a thorough campaign of preparation and instruction for the work in hand. The school year has been shortened by two months so as to make it possible for the boys to go out May 1, and \$12,000 has been appropriated for the purpose of financing the inspection and care of the boys while they are engaged with their country employers

All of the Detroit boys, who enroll, will be given a thorough course in the elementary details of handling machinery, horses and cattle. The boys will be taught to clean and harness horses properly, to clean stables, harnesses and vehicles. They will be taught how to operate and care for, and will be made thoroughly conversant with the various details of farm machinery, by practice work in taking it apart and putting it together again.

The men who have charge of the organization of the Michigan Boys' Workfor farm service in the campaign of was green and all that, to be sure, and age, from the city of Chicago, worked ing Reserve have had an intimate exnot of much use for the first five or six on farms located in the states that im- perience with the education and manweeks, but he certainly had the spirit mediately surround the great metrop- agement of boys; many of them are -and as long as we are given boys of olic of the middle west, and they also old, experienced farmers, who firmly show that ninety per cent of these believe that they see in this boy move-The promotors of ment some relief for the farm labor through with colors flying. For exam- months from a spindling youth who the Boys' Working Reserve of Chicago problem in Michigan and who are very

"Under the abnormal conditions which prevail, the town and country must cooperate as never before: and the way has been found. Boys in the cities and towns should realize that by enrolling for work on the farms they are undertaking a real patriotic service. Boys on the farms should remain there, and enroll in the Reserve. The United States Government will recognize these boys as soldiers of the soil, and they will be entitled to wear the honored emblem of this branch of the service."

#### The Michigan Farmer

The Lawrence Publishing Co. **Editors and Proprietors** gress St. West, Detroit, Michigan TELEPHONE MAIN 4525.

ORK OFFICE-381 Fourth Ave. 30 OFFICE-111 W. Washington Street. LAND OFFICE-1011-1015 Oregon Ave., N.E. DELPHIA OFFICE-201-263 South Third St.

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TERMS OF SUBSCRIPTION: One Year, 52 issues
RATES OF ADVERTISING 45 cents per line agate type measurement, or \$6.30 per inch 1/4 agate lines per inch) per insertion. No adv't inserted for less than \$1.35 each insertion. No objec- tionable advertisments inserted at any price.
Member Standard Farm Papers Association and Audit Bureau of Circulation.
Entered as second class matter at the Detroit, Mich- igan, post office.
DETROIT MADOIL 20 1018

DETROIT, MARCH 30, 1918



CURRENT COMMENT.

which is now being waged in France against the allied defenders of human be necessary in order to feed our arm- be an important factor in meeting the rights and national liberty by the hosts ies and our allies so that this end may present military necessity, and, while this seizure, which she contends to be of an autocratic power seeking world be accomplished. domination, it is well for each of us to pause for earnest thought on our own patriotic duty in the present emergency.

So often has the patriotism of the farmers of this country been appealed well, the war will be won and the to for increased food production as essential to the winning of the war, notwithstanding the increasing handicaps with which they have been confronted; in so many cases have they loyally responded without adequate financial reward for their effort and sometimes with serious loss, that in many cases they have become weary with well do-ing, and have harbored a most natural feeling that they were unfairly treated by the government, which is giving profitable contracts to manufacturers cent or to 21,000,000 bushels a month as against a normal consumption of cation that spring grains may be sown as against a normal consumption of cation that spring grains may be sown they have become weary with well doeverywhere for the production of war as against a normal consumption of cation that spring grains may be sown

sity, even in the present emergency. trial population. General attention is crops this year. Exposures and criticisms are neces- called to the fact that there is now sary and helpful to the end that such incompetence and dishonesty may be eliminated, but they should not be permitted to shake our faith in the government's integrity or in the patriotic work of the thousands of officials and citizens who are giving their best efforts with scant recompense to ati their country in its hour of greatest need. It is as unfortunate as it seems to be unavoidable that the incompetent or dishonest official or the profiteering the products per person. This means not more than one and a half pounds of Victory bread in the incompetent or dishonest official or the profiteering the products per person. This means not more than one and three-quarter pounds of Victory bread in the profite the sale of the sale

capitalist should find a place for his containing the required percentage of activities in the present crisis, but it is a matter for congratulation that they are but a small minority and will con-tenting flour, macaroni, crackers, pastry, pies, cakes wheat breakfast cereals all combined. stantly grow less in number as the war work progresses. And seeming incompetence is not to be wondered at when we consider the appalling magniwhen we consider the appalling magni-serve to any one guest at any one tude of the task to be accomplished. meal, an aggregate of breadstuffs, mac-Indeed, when this is considered we may well marvel at the progress which total of more than two ounces of wheat total of more than two ounces of wheat has been made.

operations. But if the hosts of autoc-umo ino uo juoude point provide a shores, or penetrated our exposed bor-ders; if they were training their high-powered guns of seventy-six mile range on our own capital, or practicing the frightfulness which is but another member for their vaunted "Kultur" nethoperations. But if the hosts of autocname for their vaunted "Kultur," nothing would deter any one of us from doing our best "bit" to save the day.

Calm thought and reflection will convince each of us that this is just as necessary in the present emergency. The principle of liberty is just as much at stake. The most earnest pacifist has but to consider what has happened in Russia since the signing of a sep-in Russia since the convinced of it. It ducts for pon-food purposes should at stake. The most earnest pacifist has but to consider what has happened in Russia since the signing of a sep-arate peace to be convinced of it. It is not only wholly right and proper, for us to insist on fair consideration and a square deal for food producers in all matters of government regulation. This is our duty as well as our right. But we must at the same time meas-ure up to the supreme test of patriot-ism and place the country's need be-fore our personal interests and help in every possible way to win the war and save the world from the ambitions of autocracy, and do it now. To this end we must produce as much food as nees. be necessary until the initiation of distribution may we must produce as much food as nees. be necessary to should in the four months solution of as need be-autocracy, and do it now. To this end we must produce as much food as nees. be necessary to the suprement to part the motor of the terribule struggle and struggle and the suprement to the suprement to the suprement to a suprement to the suprement top suprement to the suprement to the suprement to the suprem With the world autocracy, and do it now. To this end While limitation of distribution may cial corps who were cooperating with anxiously await- we must produce as much food as pos- be necessary to gain the needed coop- the British and French in northern France of Patriotism. ing more authen- sible, buy Liberty Bonds to the limit eration in wheat saving in industrial tic news of the of our ability and subscribe liberally to centers, voluntary cooperation on the seized Dutch ships interned in Ameri-most gigantic battle in all history, war relief funds, in addition to cheer- part of the farm families will undoubt- can ports. England did the same with which is now being wared in France. fully enduring such privation as may edly be general. Such cooperation will Dutch vessels in English harbors. Hol-be necessary in order to feed our arm- be an important factor in meeting the iss and our allies so that this end may present military necessity, and, while this solution which she contends to be

be accomplished. This test may be a severe one before the end is accomplished. But the farm-ers of Michigan and the country will be equal to it. If all other classes of our citizens withstand it equally as well, the war will be won and the cause of liberty will prevail. Involving a commendable degree of an unfriently act. Japan delays the movement of troops into Siberia. Uncertainty regarding the political and military situation in Russia and the attude of the United States, in particular, regarding the ex-pediency of such a movement, are as-operated to bring results of unconstitucause of liberty will prevail.

Flour.

sary proportion of wheat to maintain following the heavy spring rains has their war bread from now until the made possible early preparation for next harvest which is a military neces- spring grains on all well drained Mich-

Undoubtedly there is just ground for many of the criticisms which have been made with regard to the conduct of war preparations. Unquestionably there are incompetent men in charge of many important government activi-there are some profiteers who are tak-ing advantage of the country's necessary and helpful to the end that such available a surplus of potatoes and of

flour. No wheat products to be served We are prone to underestimate the crisis which we are facing because of the distance of the theater of active ninety meals served thus conforming operations. But if the hosts of autoc- with the limitations requested of the beautoparticle operations.

ducts without the safe of an equal weight of other cereals.
4. We ask the bakers and grocers to reduce the volume of Victory bread sold, by delivery of the three-quarter pound loaf where one pound was sold before, and corresponding proportions in other weights. We also ask bakers

The United States Food lowing an unusually severe winter. Save Wheat Administration has call- Not in many years has the ground beed public attention to come settled so that it could be work- ing fiscal year. the fact that if we are ed so early as is the case this spring. to furnish the Allies with the neces- The unusually warm March weather everywhere for the production of war necessities. This feeling is just as naturally intensified by reading the frequent reports of inefficiency in high official places and inadequacy of pro-duction in the vitally necessary depart-ments which have been stimulated at such vast expense. Not where necessary, regardless of ex-isting contracts. It is assumed that the risk in navi-sons. Advantage should be taken of sumption approximately one and a half such vast expense. Not where necessary, regardless of ex-isting contracts. It is assumed that the risk in navi-sons. Advantage should be taken of sumption approximately one and a half such vast expense. Not where necessary regardless of ex-isting contracts. It is assumed that the risk in navi-sons. Advantage should be taken of sumption approximately one and a half person. Not where necessary regardless of ex-isting contracts. It is assumed that the risk in navi-sons. Advantage should be taken of sumption approximately one and a half person. Not where necessary regardless of ex-isting contracts. It is assumed that the risk in navi-store announcement of the treasury department at Wash-ington that insurance on hulls and ington that insurance from fifty cents to twenty-five cents per \$100 of payroll. The Department of Labor through

HAPPENINGS OF THE WEEK.

as far as twelve miles at some points. Berl'n reports that Peronne, Ham and Cluny have been taken, and that bitter fighting is now in progress for Ba-paume. This is a portion of the terri-tory given up by the Germans a year ago, when they retreated to the fa-mous Hindenburg line. It is further stated from Berlin that fully 30,000 British troops have been captured and about 600 guns taken. The sacrifice of the Tentons however, apparently British troops have been. The sacrifice about 600 guns taken. The sacrifice of the Teutons, however, apparently of the memondous. Their attacks has been tremendous. Their attacks were made in mass formations on a

were made in mass formations on a scale never before attempted. The strategy of the British defense has been to gradually retreat and at the same time pour a deadly machine and artillery fire into the advancing col-umns. Every imaginable device for fighting that can be of any possible advantage, is being employed. Prob-ably the latest innovation is a German gun that is throwing shells from St. Gobain Wood near Laon to Paris, sev-enty miles away. The northern por-tion of the line attacked appears to be enty miles away. The northern por-tion of the line attacked appears to be tion of the line attacked appears to be holding. On the twenty-fourth the Canadian troops in the vicinity of Lens carried out a gas drive that resulted in a heavy loss to the enemy. The drive was on a scale hitherto unknown. After the first four days of fighting the Allied organization is intact and seems Alled organization is match and socials to be gradually gaining advantage through the retreat toward their stores of supplies, while the Teutons are slowly finding it increasingly difficult to bring up non and munitions over

an early spring fol-accept, on the grounds of unconstitu-tionality, the recent increase in his salary granted by the legislature and incorporated in the budget for the com-

#### National.

Approximately 230,000 men are now engaged in shipbuilding in American yards. There are about 600 ships un-der course of construction.

age. Secretary Houston, of the Depart-ment of Agriculture, has issued a call to urban people to study the farm la-bor situation and to render such assist-ance as they can to farmers during the corriging accessor. In most of our cities

Every Farmer in the Great State of Michigan Should Consider Carefully the Source of His Market Information. It Should be Gathered by Men Who Have No Financial Interest In the Crops or Produce Reported Upon. B UT few fully realize the compre- commodities being reported upon can ment the producer is in a good position the bulk of the crop is moving, infor-hensive marketing service estab- arrange with the nearest office of the to compel the dealer to cottle are just the bulk of the crop is moving, infor-

reau of Markets. Since the problems formation daily, the only cost being eral inspectors are now located, or are of marketing have been understood as the expense of wiring from the gov- to be located, will be found below. of economic value to producers, ade- ernment office. quate and reliable market information has been held as of first importance located at most of the important mar- impossible for a private concern or as- ters of the country, compile daily telein the solution of these problems.

reporting service are as follows:

shipments of important fruits and veg- makes it possible for an upstate ship- the news, have the obstacles well over- ber of cars on track, together with a etables for the entire United States; a per to verify the report of a commis- come-these men can demand infor- statement of the market conditions statement of the f. o. b. prices and sion man or dealer on the condition of mation if it is not voluntarily given, prevailing. market conditions existing at import- a carload of potatoes, or apples or and by reason of their governmental ant shipping centers; a statement of peaches. If the dealer reports that connections reports are made to them division superintendents of all raildaily carlot receipts in the important peaches are in a "rotten condition" the with more care than it usually would roads in the United States, who send consuming markets and the jobbing producer simply wires the federal in- be to a private party. prices prevailing from day to day.

ing the heavy shipping season of any statement which will be received in kets maintains field stations in princi- spective territory during the preceding one commodity, and cover all import- all courts as prima facie evidence of pal producing sections during the busy twenty-four hours. ant perishable food commodities, in- the condition of the fruit at the time shipping season. Daily wires are sent

ions, peaches, white potatoes, sweet potatoes, tomatoes, watermelons, celery and also dry beans.

1A

3. The information given as to carlot shipments and arrivals is obtained from the railroads. The price information is compiled by salaried representatives of this Bureau stationed in the principal markets and shipping areas of the country.

4. A report of the cold storage holdings of the most important food products in the entire United States is issued semi-monthly. This report shows the total holding in cold storage, the percentages of decrease or increase, and a comparison of the total figures with those of the corresponding period of the previous year.

5. Each Tuesday afternoon a "Weekly Market Review" is issued by the Bureau. This review is a summary of the daily market reports and is a brief, concise review of trade conditions and prices of the preceding week.

6. Any person wishing special telegraphic quotations from any important market on

spector to investigate. This officer ex-

How the Information is Secured.

cluding apples, cantaloupes, grapes, on- of inspection. Armed with this state- to Washington quoting prices at which at Washington is in wire communica-

lished by the United States Bu- Bureau of Markets to secure this in- basis. A list of the cities where fed- and quality and condition of the crop.

3-419

While the agents located in the producing sections are forwarding their findings other men occupying perma-7. Federal inspectors are now being It would be difficult and practically nent stations in leading jobbing cenkets of the country for the purpose of sociation to secure this data. But grams giving quotations at which the The principle features of this market investigating and certifying to the con- armed with the power and authority of bulk of sales are being made, the numdition as to soundness of fruits, vege- the government the agents of the Bu- ber of cars of perishables arriving, 1. The daily reports show the carlot tables and other food products. This reau of Markets who go out to gather and when possible to do so, the num-

Then the Bureau is in touch with the daily telegrams to Washington, giving To secure data on the situation at the number of cars of the various com-2. The reports are issued daily dur- amines the fruit and makes out a shipping points, the Bureau fo Mar- modities which moved from their re-

Thus it will be seen that the Bureau

tion with the producing districts, the market centers and the transportation companies, and has exact data on prices, supplies, and demand at the point of origin and the destination of the shipments, as well as knowledge of the quantity of the various crops moving.

The foregoing information is arranged and wired daily over leased telegraph lines to the various offices throughout the country. One of these offices is located in Detroit from which office the Market Department of the Michigan Farmer secures quotations and information on the condition of trade in the many market centers of interest to its readers, and distributes this news throughout the great state of Michigan. The market page is held to the very latest minute that readers may secure the best possible use of this valuable federal service.

While the work of this Bureau of the Department of Agriculture has already become of great economic importance to the country and especially (Continued on p. 423).

ne News of the Various Markets of the Country is Wired to Detroit Office of Bureau of Markets and from there Sent through the Columns of The Michigan Farmer to its Thousands of Readers. Special Free Market Service will be Provided on Request.

# How Can the Farmers Raise More Crops With Less Labor?

FRIEND, after reading my article, "The Farmer Will do His with less labor. Are you not asking ation, believing it the only course for

the impossible?" farmer is going to do it, only I am sat- our soldiers to go to France and with seem to think. Some people are wring- lately is worth more than two or three isfied that he will do it, because he the assistance of the British and the ing their hands now and getting hys- city fellows you can get who have no has got to do it. We are going to ask French to practically annihilate Prus- terical about the matter, but that is no farm experience, and it won't hurt a in many instances almost superhuman sianism. Personally, I do not expect way to de the job. Why, there are bit. We can "come back" on the farm effort on the part of our army, the they are going to do the whole job this enough of us "old fellows" over fifty labor, proposition and it won't be askboys who are goin "over there" to year, but next year they are going to years of age, and above that, who have ing as much of us either, as the govwhip the Germans. We expect them give Prussianism a "knock-out" blow. not been performing much physical ernment is asking of the boys who go to do the job. We are not going to be Now, it is not asking too much of the labor in the last few years, taking to France to perhaps die in the trenchsatisfied unless they do-and they are farmers to put their shoulder to the what we consider a well-earned let-up es. going to do it. That is what they are wheel, to draw their belts one hole to hard physical labor. There are All we have got to do is to set the

#### By COLON C. LILLIE

I cannot tell just exactly how the respect whatever, and we are asking trouble about this as many people been doing much of this physical labor

enough of us, I say, to take the place of the young men who have been taken Share," asked me the following going for. America is in this struggle, tighter if necessary, and produce from the farms. We can do the work question: "How can a farmer do it? not from choice, but from duty. We enough to see that these soldiers are and we will do it. The white collars He is expected to raise more crops have gone into it after careful deliber- properly fed, clothed and taken care of. and the boiled shirts can be laid aside Where is the labor coming from? I for a year or two if necessary, and bethis nation to take and have any self- don't anticipate there will be as much lieve me, one of us fellows who hasn't





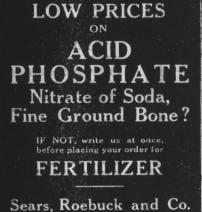
420---4

THEY are made especially for farm work-double-tanned to make the leather flexible and to protect it from the effects of uric acid. That means they look better, feel better and wear longer. "Farm-Wear" Shoes

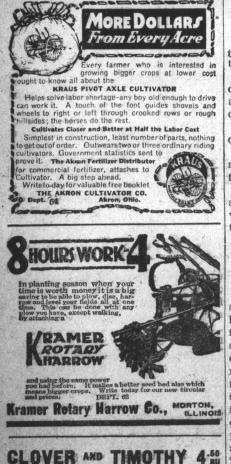
For Farm Wear are made in four heights-black and chocolate extra wide treads. Try a pair. You'll say "they are the best plow shoes I ever wore". If your shoe merchant doesn't han-dle them, tear out this ad, write your name, address and size in the margin and mail to us-we'll do the



Did You Get Our



CHICAGO, ILL. Dept. 51F



YOUNG-RANDOLPH SEED CO., Owosso, Mich.

cleaned in about one-half the time with a grain scoop than it can with tools ordinarily used.

quickly with the grain scoop. about one-half the time with a scoop

No farmer should be without a grain scoop and scoop fork. I would not be without them even though I could use them for aforesaid purposes only.

A. PAULSON. Mecosta Co.

sist in adjusting fire losses, and has is so placed to lower the milk in cow locked. The next step is to immedilearned that many fires are caused tank to cool while milking. from the chimney or flue, catching on some timber, and opening one or more plank cut from floor for the bottom of next year's supply of fuel. of the mortar joints. The chimney elevator and a similar piece for the Remember these points: "Use clean, the shingles, and rests directly on around the hole in the floor to keep est Product." same, and if the weight of the chim- back litter.

the labor proposition and we can do as ers because they are working on a cost and I don't believe we will. days as he has formerly had. Dr. Jor- selves.

MARCH 30, 1918.

alarm clock a little earlier in the morn- farm products, there is no use of the ples in our Civil War did more than ing and work a little longer at night. farmer attempting to bid against the we will have to do, and now when the We can go back to first principles on munition and war supply manufactur- final test comes we ought not to shirk

our forefathers did and put in a fifteen and profit basis, they are simply in If ever a nation had a just cause for or sixteen hour day. We can do this shape to bid higher than the farmer. declaring war upon another, in my much willingly for Democracy and the Let them have this labor. Those opinion, the United States had just Flag. All of us can work a little hard- things must be done. There is no use cause for declaring war upon Germany. er. This will have a beneficial effect in the farmer bidding against the auto- Every principle of international law on the hired help and upon the whole mobile manufacturer, because their has been violated; every principle of family. Besides, for one or two years profits are such that they can beat the human rights has been sacrificed. The now it won't be asking very much of farmer out at this game, and so, in- Germans are trying to establish the the retired farmer, or of any farmer, stead of offering wages that we can't brutal, and barbaric principle that if he doesn't have as many vacation afford to pay, let's do the work our- might makes right, and it is the duty of every citizen of this free governdan, in speaking at Lansing the other We will be working for a great ment to not only do his bit but to do day, said that the National Food Com- cause. We ought to do this work joy- his best to defeat them. All great mission worked Sundays as well as ously. We ought to consider it a priv- thinking men said in the first place week days, and they didn't think that ilege to be able to do something for that this war would be won by the side they could do anything more righteous the benefit of humanity. Our forefath- that had the last billion dollars. We on Sunday than working for the good ers in gaining their independence from have that billion dollars, and more, of the cause. If it is necessary, we Great Britain and establishing a gov- too, and we ought to use it to the last farmers will do the same thing. If ernment on the great principle that all dollar if necessary, and I believe that there is pressing work to be done on men practically are created free and we will. We have the resources; we the farm the best way a farmer can equal, that every man is entitled to have the money; we have the men. celebrate Decoration Day or Fourth life, liberty and the pursuit of happi- All we have to do is to have a united of July during this war, is to stay at ness, that every man is a sovereign nation, a united front, and in this home and do that work. If we will himself and has the privilege of doing struggle for our homes and our birthall do this there isn't any question but what he chooses to do so long as he rights the farmers are not going to be doesn't interfere with the rights of oth- found wanting. The fighting blood of Neither do I believe that there is ers; our forefathers, I say, when es- the world is aroused against this monany use of bidding up to exorbitant tablishing this for a of government, strous "thing" now unmasked-"Gerfigures for farm labor. If you can't made sacrifices that we will probably man Kultur." Now is no time for hagget it for a decent figure you can't get not be called upon to make. Our fore-gling over details-"we have a victory it at all. With the prices fixed for fathers also, in defense of these princi- to win.

Suggestions for Busy Farmers

#### MY LABOR-SAVING METHOD IN ney is not sufficient to spring the roof I put a rope fastener similar to those RAISING CUCUMBERS.

what the work can be done.

is best. manure, then keep harrowed until the ble. Drive stakes in furrows before harrowing, then stretch line, plant the seed with fingers, four to six inches apart in furrow. When the plants have four or five leaves, thin to about eighteen inches apart in row, then hoe and keep clean. Cultivate once a week until they begin to vine, then pick every day or every other day, according to growth. We raised \$107 worth off one-half acre the first year, \$89 worth off three-quarters of an acre the second year, and blight came when about half bearing; \$167 the third year off one acre.

F. SWEENEY. Huron Co.

#### USES FOR SCOOP.

I have a few suggestions which I think may more rightfully be termed time saving. A chicken coop or hog pen can be

Gravel may also be unloaded more

The horse stable may be cleaned in fork.

#### ON BUILDING CHIMNEYS.

your flue is safe.

HANDLING MILK CANS EASILY.

J. E. BRIDGMAN.

as the chimney settles, the brick will used on awnings above the floor to be separated and soon the roof will hold elevator when up, and another First plow the ground, fall plowing catch fire. In building new chimneys, one below in the stable to use when best. In spring plow the furrows if the water tables be placed about two the cans were down to keep them the if the water tables be placed about two the cans were down to keep them the six or eight feet apart, fill with good inches above the shingles, and tin proper distance in the water, lowering shingles used around the chimney, this the cans as they fill with milk. Elelast of May, or as soon after as possi- trouble will be avoided. In laying up rator is so placed that when lowered from above it catches on edge of tank and is lowered again into the water from below when required. Hooks can be attached to center of top to lower milk pails, milk tubes, etc.

Jackson Co. L. B. BENTON.

#### CLOSING UP THE MAPLE SUGAR RUN.

When the buds have started on the maples the sap becomes rather strong and is spoken of as "buddy." Buddy sap produces a strong, stringy, darkcolored syrup usually and the appearance of the buds should indicate to the brick, have the mason lay each the operator that it is time to quit. He brick in a full bed of mortar, and should now draw his operations to a strike the joints on both sides with a close and take care of the equipment. trowel. Do not allow any parging or The evaporator should be thoroughly plastering, as it will soon fall off and cleaned and boiled out with clear waleave the joints exposed, unless fire ter and all of the accumulation and clay be used. Be sure that no joists, dirt removed. In other words, it headers, etc., come closer than two should be made as bright as new. It inches to the flue at any point. If this may then be treated with a thin smear is done, the weight of the flue will ov- of weak syrup, applied as paint. The ercome any pressure of the flooring, pans should be stood on edge leaning and baseboards, and you can feel that slightly so as to protect them from accumulation of drip moisture. The sap buckets, if of tin or galvanized iron, should be brought in and rinsed out in sap and allowed to dry in the sun. Then place upside down singly in tiers Here is an elevator to get milk out inside of the sugar room. When all of basement stable easily when it would the equipment is dry and coated with otherwise have to be carried upstairs a film of sap it will not rust when in by hand, and perhaps a long way storage. Buckets should not be placed through the stable besides. I made inside of each other, but should be mine in half a day, and it has saved tiered up separately. The sugar house The writer is often called on to as- me a lot of hard labor and time. Mine should then be closed up and the doors ately, or before the summer work op-The material I used was the piece of ens, fill the wood storage room with

may be ever so well built, but if the top, four pieces of scrap iron 1x11% in. bright equipment, including buckets, floor or roof timbers bind and hold the for the uprights and a heavier piece spiles and pans; do not allow slovenly top part, and the lower part settles, as for riveting around uprights one foot methods of handling sap or syrup anyit will do, a fire is sure to occur sooner from the bottom to keep cans from tip- where; begin the sugar season by beor later. This trouble more often hap- ping over, two three-wheel pulleys and ing clean; keep everything clean pens at the point or peak of the roof, about sixty feet of three-eighths rope throughout the run and the result will as shown in the illustration at A A. for the hoist and four ten-inch wide be a clean, bright, high-grade, deli-The water shed or table extends over boards set on edge, funnel, shaped, cately flavored syrup. Michigan's Fin-

Mich. Ag. Col.

F. H. SANFORD.

# White Grubs Busy In 1918

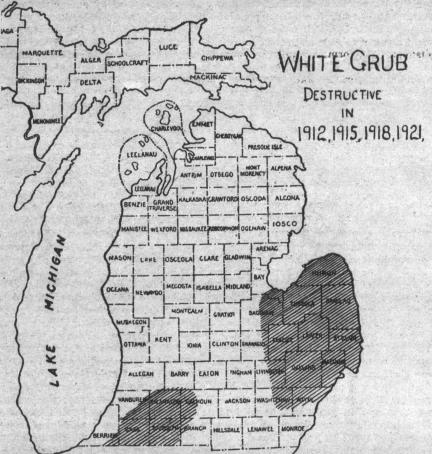
By DON B. WHELAN M. A. C. Extension Specialist In Entomology

that is, if the proper precautions are the years of 1912 and 1915. It was esnot taken to guard against their being timated, by government experts, that injured, if not destroyed, by the white the 1912 brood destroyed over \$12,000, grubs. This pest will be very abun- 000 worth of crops in Iowa, Wisconsin, dant in the eastern part of the state, Illinois and Michigan. During 1915 including the counties of Huron, Sani- this same brood did even greater damlac, Tuscola, St. Clair, Lapeer, Gene- age in these states and it is up to the see, Macomb, and Oakland, also in farmers in these localities to decide portions of Saginaw, Shiawassee, Liv- whether they wish this year's brood ingston, Washtenaw and Wayne coun- to destroy their crops. If corn is plantties. Another area in the southwest- ed on ground that last year was in sod ern part of the state that will be af- it will stand a big chance of being par-

LAKE SUPERIOR

MARCH 30, 1918.

HERE will be much damage The brood of grubs that will do the done to corn, potatoes, and other damage this year is a later generation farm crops this coming summer; of the ones that did so much damage in fected is that including Kalamazoo, tially or even totally destroyed. Farmers in the infested districts may have to change their rotation if need be, to forestall the destruction of their crops. The grubs are especially fond of cer-



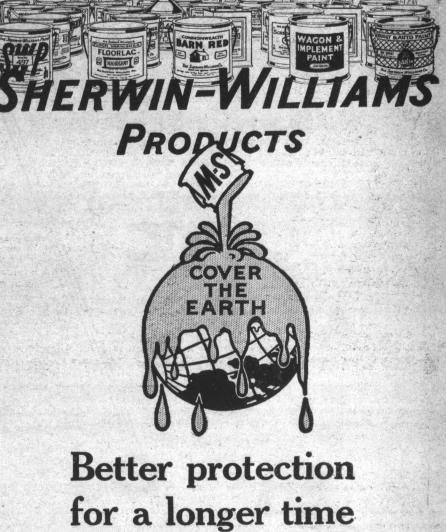
Cass and St. Joseph counties with por- ain crop roots, while others will not be and Branch.

bugs" or "May-beetles." These brown, cape with the least possible injury we these localities last May and June, fly- the least "comfort to the enemy." into tiny white grubs which fed, for a few grubs since the adult beetles do matter. Then they worked their way eggs. The beetles prefer land in small are hibernating in small earthen cells was in wheat or oats last year may May until the first of October unless that the least amount of land will be work their way deeper into the ground 1921, it will be safer to let corn follow where they will pass the winter and corn, clover or some cultivated crop. next spring they will come near the surface of the ground again to feed for and they transform, within an earthen toward forming a cooperative elevator of this pest. The most destructive to be taken by April 1. stage is the year after the eggs have been laid, 1918. So we have this insect

tions of Van Buren, Calhoun, Berrien touched by them. Other crops will be eaten readily by them, but avoided as White grubs are the larvae of "June- places of egg laying. In order to esrobust beetles were quite numerous in must choose a rotation that will give A ing around the lights at night. In June rotation of oats, clover and, corn has they laid their eggs in ground that was proven very satisfactory in some seccovered with vegetation, sod, weeds, tions. Ground which was in corn or timothy and small grains by choice. which had a heavy stand of pure clover These eggs hatched in about a month, last year will contain, ordinarily, but time, on tender roots and decaying not seek such land for laying their down into the soil where they passed grains, timothy, or land covered with the fall and winter. Right now they weeds, for egg laying. Land which a foot or more below the surface of contain many grubs this spring, but if the ground. About the first of May clover, which is one of the least susthey will come up and begin feeding ceptible crops, follows, the grubs will upon their favorite food. Their de- scarcely injure it. Aside from this, it structiveness will last from the first of is desirable to so arrange the rotation something is done to prevent or hinder 'in timothy and small grains the years them. Next fall they will once more the beetles fly. During 1918 and

Farmers of southern Kent county a short time. A few weeks of feeding met at Caledonia and took first steps cell, to a pupa and finally into the company to buy and sell grain and adult beetle which remains there until other farm produce. The association the following spring. Hence it takes will have at least \$15,000 capital, stock three years for the entire life-history subscriptions ranging from \$50 to \$500,

A home without books is like a room destroying crops every three years. without windows.-Beecher.



5-421

THE way to save money on painting is to do it so thoroughly and with paint so reliable that it will not have to be done over again next year.

Sherwin-Williams make a special finish for each farm need. It is this specializing that guarantees for you the maximum of durability in whatever Sherwin-Williams finish you buy.

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#### Spraying is the only way to save your crop

But spraying with inferior materials is a waste of time and money.

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#### in powdered form

is cheaper than paste. You buy no water, less weight to ham, no chance of leakage or deterioration. It mixes readily with water and stays mixed. Though deadly to insects, it does not burn the foliage. Try this effective insecticide.

> We gladly send to farmers our painting booklet "The ABC of Home Painting" and authoritative spraying literature.

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SHERWIN-WILLIAMS

PRODUCTS

420--4

# "FARM-WEAR" THOES FOR PRING PLOWING (111111111))

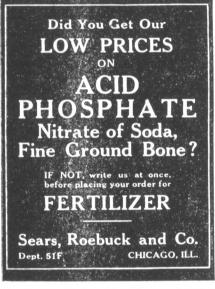
THEY are made especially for farm work - double-tanned to make the leather flexible and to protect it from the effects of uric acid. That means they look better, feel better and wear longer.

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are made in four heights—black and chocolate -- extra wide treads. Try a pair. You'll say "they are the best plow shoes I ever wore". If your shoe merchant doesn't han-dle them, tear out this ad, write your name, address and size in the margin and mail to us-we'll do the rest.

NUNN & BUSH SHOE CO. Dept. 524 Milwaukee, Wis.







CAR A MARINE

WORK

#### THE MICHIGAN FARMER

alarm clock a little earlier in the morn- farm products, there is no use of the ples in our Civil War did more than ing and work a little longer at night. farmer attempting to bid against the we will have to do, and now when the We can go back to first principles on munition and war supply manufactur- final test comes we ought not to shirk the labor proposition and we can do as ers because they are working on a cost and I don't believe we will. our forefathers did and put in a fifteen and profit basis, they are simply in If ever a nation had a just cause for or sixteen hour day. We can do this shape to bid higher than the farmer, declaring war upon another, in my much willingly for Democracy and the Let them have this labor. Those opinion, the United States had just Flag. All of us can work a little hard- things must be done. There is no use cause for declaring war upon Germany. er. This will have a beneficial effect in the farmer bidding against the auto- Every principle of international law on the hired help and upon the whole mobile manufacturer, because their has been violated; every principle of family. Besides, for one or two years profits are such that they can beat the human rights has been sacrificed. The now it won't be asking very much of farmer out at this game, and so, in- Germans are trying to establish the the retired farmer, or of any farmer, stead of offering wages that we can't brutal, and barbaric principle that if he doesn't have as many vacation afford to pay, let's do the work our-might makes right, and it is the duty days as he has formerly had. Dr. Jor- selves. dan, in speaking at Lansing the other We will be working for a great ment to not only do his bit but to do day, said that the National Food Com- cause. We ought to do this work joy- his best to defeat them. All great mission worked Sundays as well as ously. We ought to consider it a priv- thinking men said in the first place week days, and they didn't think that ilege to be able to do something for that this war would be won by the side they could do anything more righteous the benefit of humanity. Our forefath- that had the last billion dollars. We on Sunday than working for the good ers in gaining their independence from have that billion dollars, and more, of the cause. If it is necessary, we Great Britain and establishing a gov- too, and we ought to use it to the last farmers will do the same thing. If ernment on the great principle that all dollar if necessary, and I believe that there is pressing work to be done on men practically are created free and we will. We have the resources; we the farm the best way a farmer can equal, that every man is entitled to have the money; we have the men. celebrate Decoration Day or Fourth life, liberty and the pursuit of happi- All we have to do is to have a united of July during this war, is to stay at ness, that every man is a sovereign nation, a united front, and in this home and do that work. If we will himself and has the privilege of doing struggle for our homes and our birthall do this there isn't any question but what he chooses to do so long as he rights the farmers are not going to be what the work can be done.

it at all. With the prices fixed for fathers also, in defense of these princi- to win.

of every citizen of this free governdoesn't interfere with the rights of oth- found wanting. The fighting blood of Neither do I believe that there is ers; our forefathers, I say, when es- the world is aroused against this monany use of bidding up to exorbitant tablishing this for a of government, strous "thing" now unmasked-"Gerfigures for farm labor. If you can't made sacrifices that we will probably man Kultur." Now is no time for hagget it for a decent figure you can't get not be called upon to make. Our fore-gling over details-"we have a victory

# Suggestions for Busy Farmers

#### RAISING CUCUMBERS.

six or eight feet apart, fill with good inches above the shingles, and tin proper distance in the water, lowering manure, then keep harrowed until the shingles used around the chimney, this the cans as they fill with milk. Elelast of May, or as soon after as possi- trouble will be avoided. In laying up cator is so placed that when lowered ble. Drive stakes in furrows before

harrowing, then stretch line, plant the seed with fingers, four to six inches apart in furrow. When the plants have four or five leaves, thin to about eighteen inches apart in row, then hoe and keep clean. Cultivate once a week until they begin to vine, then pick every day or every other day, according to growth. We raised \$107 worth off one-half acre the first year, \$89 worth off three-quarters of an acre the second year, and blight came when about half bearing; \$167 the third year off one acre.

F. SWEENEY. Huron Co.

#### USES FOR SCOOP.

think may more rightfully be termed plastering, as it will soon fall off and cleaned and boiled out with clear waime saving

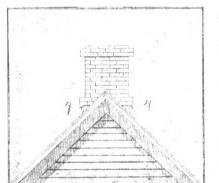
A chicken coop or hog pen can be cleaned in about one-half the time with headers, etc., come closer than two should be made as bright as new. It a grain scoop than it can with tools inches to the flue at any point. If this may then be treated with a thin smear ordinarily used.

quickly with the grain scoop.

The horse stable may be cleaned in about one-half the time with a scoop fork.

No farmer should be without a grain HANDLING MILK CANS EASILY. scoop and scoop fork. I would not be without them even though I could use

them for aforesaid purposes only. A. PAULSON. Mecosta Co.



vour flue is safe.

J. E. BRIDGMAN.

through the stable besides. I made inside of each other, but should be

otherwise have to be carried upstairs a film of sap it will not rust when in by hand, and perhaps a long way storage. Buckets should not be placed

MY LABOR-SAVING METHOD IN ney is not sufficient to spring the roof I put a rope fastener similar to those as the chimney settles, the brick will used on awnings above the floor to be separated and soon the roof will hold elevator when up, and another First plow the ground, fall plowing catch fire. In building new chimneys, one below in the stable to use when In spring plow the furrows if the water tables be placed about two the cans were down to keep them the from above it catches on edge of tank and is lowered again into the water from below when required. Hooks can be attached to center of top to lower

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Kramer Rolary Harrow Co., MORTON.

#### CLOVER AND TIMOTHY 4:50 45 LBS., BAGE EXTRA SOC EACH 20 PER CENT CLOVER YOUNG-RANDOLPH SEED CO., Owosso, Mich.

#### ON BUILDING CHIMNEYS.

mine in half a day, and it has saved tiered up separately. The sugar house The writer is often called on to as- me a lot of hard labor and time. Mine should then be closed up and the doors sist in adjusting fire losses, and has is so placed to lower the milk in cow locked. The next step is to immedilearned that many fires are caused tank to cool while milking. ately, or before the summer work opfrom the chimney or flue, catching on The material I used was the piece of ens, fill the wood storage room with some timber, and opening one or more plank cut from floor for the bottom of next year's supply of fuel. of the mortar joints. The chimney elevator and a similar piece for the Remember these points: "Use clean, may be ever so well built, but if the top, four pieces of scrap iron 1x11, in. bright equipment, including buckets, floor or roof timbers bind and hold the for the uprights and a heavier piece spiles and pans; do not allow slovenly top part, and the lower part settles, as for riveting around uprights one foot methods of handling sap or syrup anyit will do, a fire is sure to occur sooner from the bottom to keep cans from tip- where; begin the sugar season by beor later. This trouble more often hap- ping over, two three-wheel pulleys and ing clean; keep everything clean pens at the point or peak of the roof, about sixty feet of three-eighths rope throughout the run and the result will as shown in the illustration at A A. for the hoist and four ten-inch wide be a clean, bright, high-grade, deli-The water shed or table extends over boards set on edge, funnel shaped, cately flavored syrup. Michigan's Finthe shingles, and rests directly on around the hole in the floor to keep est Product." same, and if the weight of the chim- back litter. Mich. Ag. Col. F. H. SANFORD.

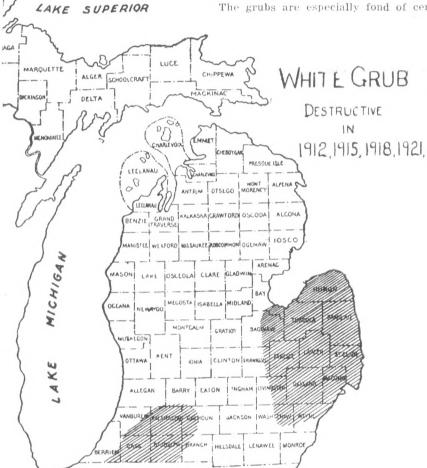
MARCH 30, 1918.

THE MICHIGAN FARMER

#### White Grubs Busy In 1918 By DON B. WHELAN

M. A. C. Extension Specialist In Entomology

HERE will be much damage The brood of grubs that will do the done to corn, potatoes, and other damage this year is a later generation farm crops this coming summer; of the ones that did so much damage in that is, if the proper precautions are the years of 1912 and 1915. It was es not taken to guard against their being timated, by government experts, that injured, if not destroyed, by the white the 1912 brood destroyed over \$12,000,grubs. This pest will be very abun- 000 worth of crops in Iowa, Wisconsin, dant in the eastern part of the state, Illinois and Michigan. During 1915 including the counties of Huron, Sani- this same brood did even greater damlac, Tuscola, St. Clair, Lapeer, Gene- age in these states and it is up to the see, Macomb, and Oakland, also in farmers in these localities to decide portions of Saginaw, Shiawassee, Liv- whether they wish this year's brood ingston, Washtenaw and Wayne coun- to destroy their crops. If corn is plantties. Another area in the southwest- ed on ground that last year was in sod ern part of the state that will be af- it will stand a big chance of being parfected is that including Kalamazoo, tially or even totally destroyed. Farmers in the infested districts may have to change their rotation if need be, to forestall the destruction of their crops. The grubs are especially fond of cer



and Branch.

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5 - 421

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surface of the ground again to feed for Farmers of southern Kent county a short time. A few weeks of feeding met at Caledonia and took first steps and they transform, within an earthen toward forming a cooperative elevator cell, to a pupa and finally into the company to buy and sell grain and adult beetle which remains there until other farm produce. The association the following spring. Hence it takes will have at least \$15,000 capital, stock three years for the entire life-history subscriptions ranging from \$50 to \$500, of this pest. The most destructive to be taken by April 1.

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# Address, The SHERWIN-WILLIAMS CO., 669 Canal Road, N. W., Cleveland, Ohio SHERWIN-WILLIAMS PRODUCTS



#### Problems of Our Milk Producers By R. C. REED

Secretary Michigan Milk Producers' Association MICHIGAN MILK PRODUCERS:

In these columns R. C. Reed, of Howell, your associational secretary, will give from time to time a summary of current news on the milk and dairy situation in this state, and advise you individually, and also your local association, how best to meet the various problems now confronting the producer. Watch each issue of the Michigan Farrmer that you may be thoroughly and quickly informed on every step undertaken by your organization .- Eds.

market should be distinct in itself, and of a decline of our agriculture. If we should be dependent upon a definite are to protect our homes, our farms producing territory. Attempts to se- and our investments in cattle, buildcure an outside supply invariably de- ings and equipment, we must protect moralizes the market.

Prices.

cheapen milk prices and keep it be of milk during the next few weeks so low the cost of production, have been that it can not be used as a weapon for the buyers to send milk from one against us to destroy our markets and market to another for the purpose of bring about a general decline in prices. creating a surplus. This the producer tigation and final analysis. •

alive and awake at the present time. the situation, but it surely seems al-We must not allow the alertness of most incredible that they should be gothe great condensing interests to de- ing ahead with their work of erecting stroy this industry.

An Impending Crisis to Meet.

more the wisdom of sound common on to their good cows and do everyof means to ends, than we do today. storm and maintain prices so that they igan is hanging in the balance. With its from their cows. the curtailment of the amount of milk Tendencies that May Make Stabilizing that is being made into the condensed product there is certain to be a corresdestroy our city markets unless drastic is a strong tendency to depend more efforts are made to protect these mar- upon pasture, silage and soiling crops next few weeks. We must solidify our summer months. On other farms the organization to meet this impending tendency is to sell the cows and grow crisis or hundreds of carloads of cows up herds of young cows in hopes that will leave our state.

ers to keep their cows. With millions ever be made to pay decent profits. big condensing plants shutting down the manufacturers and feed dealers vice about the situation, and many recent investigations in other states prophecies, almost all, are to the effect show. They reason that they can proto hold together and keep their good edly true but unfortunately we are faccows. So long as wartime leed prices ing a spring and summer surplus almust keep our heads and figure close- backing up on handling this surplus ly. It is no time to get rattled and the situation is becoming more serious all crowd to one side of the ship that every day. is keeping us afloat. We must use reason and common sense in protecting The producers who are selling their our markets if we are to continue right cows and growing up herds of young along in the business.

Must Handle Surplus Milk.

ducing business, but it is not an easy duction and maintain prices through matter for him to take up any new the present crisis. Michigan dairy system of diversified agriculture by farmers must settle these vital probwhich he can make a good living and

ILK, the perishable product, maintain the productivity of his land. should have certain nearby Remove the dairy cows from Michigan points of market. Each milk farms and it will mark the beginning the dairy industry. The only logical Buyers' Methods of Keeping Down | way for us to do these things is to meet the impending crisis with a firm The methods that have been used to determination to handle this surplus

MARCH 30, 1918

The fact that the big condensary must awaken to face and stand firm to plants, throughout the country have acprevent. For some reason, the cause cumulated a big surplus of canned milk of which I am not able to state at the and that they are beginning to cut present time, the condensaries in cer- down the output of the product should tain sections are piling up vast quan- be well understood by every member tities of milk. Whether this is attribu- of the Michigan Milk Producers' Assotable to government action, or to the ciation. It is my desire that every lolack of shipping facilities, or to the de- cal officer shall make plans to explain termination on the part of the great these conditions to members and make condensing interests to force the price every effort possible to hold them in of milk down, are questions for inves- line until the situation clears. It may be doing the condensary men an injus-Every local organization should be tice to claim that they are holding up new plants and developing new territory unless they are assured of a prof-Never since the organization of the itable outlet for their product. Reason-Michigan Milk Producers' Association ing along the same lines it would seem has there been a time when we needed advisable for our dairy farmers to hold sense, to help in the wise adjustment thing possible to weather the coming The fate of the dairy industry in Mich- will be in a position to make fair prof-

of Dairy Business More Difficult.

In visiting many farms throughout ponding surplus which will be used to the state of Michigan I find that there kets against this surplus during the and produce more milk during the by the time they reach maturity the While we know very little of the ins milk situation will clear itself. I want and outs of the present letting up in to warn against these tendencies for I the manufacture of condensed milk, we believe they are leading us in the do know that we must protect our- wrong direction and that we must setselves against the coming surplus if the some of these vital problems of we succeed in stabilizing prices so that selling and distributing our milk before there shall be an inducement for farm- the dairy business of Michigan can

of people starving for nature's most The producers who are planning to perfect food on the one hand, and the produce more summer milk figure that production on the other hand, the sit- are controlling the cost of production uation is, indeed, puzzling to the best during the winter months so that the posted students of the present markets. price of winter milk is below the cost We are getting a great big lot of ad- of production, which we all know the that for the next few years, profits duce summer milk with less expense must come to the men who are willing for purchased feeds. This is undoubtcontinue it is going to mean that we ready and with the condensary plants

#### Why Support is Needed Now.

cows will find the situation no better in the years to come unless they stand It is easy for the dairy farmer to sell by their guns and support your organhis cattle and go out of the milk pro- ization in its efforts to stabilize pro-(Continued on page 426).



STAYON AND TUBULAR DOOR HANGERS AND TRACKS OM WRITE US. - ATTRACTIVE BOOKLET ON REQUEST E.MYERS& BRO. MELANDE ST. ASHLAND.OHIO.

#### The Farmer's Correspondence By R. G. KIRBY

and limited their writing to friendship and value in each case. letters. Now, it is interesting to study the farm journals and daily papers throughout their advertising sections from customers and all answers of imand note how many farmers are carry- portance. These may be valuable for ing on a business that depends largely future reference if any misunderstandupon transactions through the mail. ings arise concerning a deal. The use The number of farmers who must use of a typewriter and the making of a business letters frequently, is rapidly carbon copy of every important letter increasing.

advertisement for a farm. This may just exactly what you said in a letter contain the name of the farm and a written hastily ten weeks ago, and a list of its principal products for sale, carefully filed carbon copy will tell the or it may be illustrated with a clear story accurately. photograph of a scene on the farm. A fruit farm should not illustrate its letters with a live stock photograph and a breeder of pure-bred stock would hardly wish to place a peach or an ap- to producers, (notwithstanding some ple at the head of the stationery. This of the mistakes it has made), the inis surprising how many letter heads least of its constructive undertakings. used by farmers are illustrated with Market news gathered by men who are photographs that really do not match unprejudiced, and financially disinterup at all with the principal business of ested, is much more reliable than inthe farm.

and printing letter heads and envelops of federal market inspectors. to be used in the farming business. In Government Inspection of Fruits and all the writer's relations with other business men he has never found any farmer who must use letter heads, ad- falo and Omaha. vertising circulars and many kinds of printed announcements. Most printers have samples of their work which are tor, 408 Fidelity Bldg., 148 State St. worth careful study before the order is placed.

#### Writing the Letter.

A farm business letter should be clearly written to avoid misunderstand- er, 307 Johnson Building. ings. It must be short and to the point and yet not so short and carelessly spector, 8 Exchange Bldg. written that essential information is neglected. A prospective buyer of live a reply which comes from his inquiry. Main Streets. He appreciates a prompt answer and it pays to be prompt in all business deals Houston, Texas, Wesley V. Steph-that are carried on through the mails. ens, Inspector, 307 Southern Pacific A neglected letter may mean a lost Building. sale. Many farmers who may have had poor results from advertising owe Bisbee Building. their failure to a general neglect to answer inquiries promptly and send prospective customer. It is well to re- change Building. member that an advertiser of a certain article is really competing for business spector, 804 Exchange Building. with every other advertiser of the two advertisements may be about the Building. same, but the results of the advertising may be different because of the spector, 314 Metropolitan Building. superior ability of one farmer to carry on a satisfactory correspondence.

For example Smith and Jones advertise pure-bred calves in the same farm journal. Then they are compet- Inspector, Bureau of Markets. ing with each other to obtain the oring to buy calves. It is apparent that Third and Walnut Streets. the reader may answer more than one answers. Then the farmer's letter and Pennsylvania Avenues. steps in as the second factor in the business transaction and if this letter makes a poor impression it may lose spector, 400 Old Custom House, Third a sale, while if its business-like appear- and Olive Streets. ance appeals to the customer, an im- St. Paul, Minn., Minneapolis Office. mediate transaction of business will Washington, D. C., Supervision, W. result. If Smith can write a good let-M. Scott, C. T More, Bureau of Marter to the buyer he will stand a better kets

B USINESS houses have always been chance of making a sale than Jones, if judged more or less by the are lence judged more or less by the ap- Jones writes carelessly and gives a pearance of their letters. Farm- wrong impression. This is apt to be ers formerly found little time for cor- true, even though the product to be respondence concerning their business sold is essentially of the same quality

Filing Business Letters.

It pays to file all letters received will prove of value to the business A good letter head is an excellent farmer. It is often desirable to know

#### RELIABLE MARKET REPORTS.

#### (Continued from page 419).

seems needless to mention, and yet it telligence work is by no means the formation gathered and published by A farmer need not know much about persons or concerns who buy and sell. the printing business if he is willing to Not only has the Bureau this advanaccept advice from a printer. They do tage but through its organization it is know their business and are willing to now in a position to extend another advise a prospective customer concern- valuable service to producers and coing the best methods of illustrating operative organizations-the providing

Vegetables. The Food Products Inspection Serclass of men more willing to be helpful vice is now available to shippers in in a friendly sort of manner than the the markets named below and it is exprinters who were helping him to learn pected that in the very near future a few of the principal points of their the service will be established also in business. The printer can become one San Francisco, Denver, Detroit, Indiof the best friends of the business anapolis, Atlanta, Birmingham, Buf-

Baltimore, Md., Washington Office. Boston, Mass., C. E. Merrill, Inspec-

Chicago, Ill., D. B. Pratt, Supervising Inspector, 604 Distributors' Bldg., 236 North Clark Street.

Cincinnati, Ohio, Howard E. Kram-Cleveland, Ohio, R. C. Butner, In-

Dallas, Texas, Forth Worth Office. Fort Worth, Texas, L. G. Schultz, stock is often influenced by the type of Inspector, 505 Moore Bldg., Tenth and

Galveston, Texas, Houston Office.

Jacksonville, Fla., T. C. Curry, 909

Jersey City, N. J., New York Office. Kansas City, Mo., F. E. DeSellem, along all information desired by the Supervising Inspector, 202 Produce Ex-

Memphis, Tenn., L. J. Weishaar, In-

Minneapolis, Minn., W. F. Selleck, same product. The essential facts in Inspector, 300 Market State Bank

New Orleans, La., F. H. Lister, In

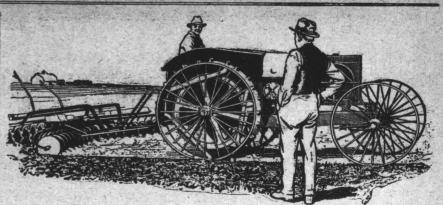
New York, N. Y., E. L. Markell, Supervision Inspector, 707 Fruit Trade Bldg, 204 Franklin Street

Oklahoma City, Ok., F. A. L. Bloom,

Philadelphia, Pa., R. J. Russell, Inders of any readers of that paper wish- spector, 315 Insurance Exchange Bldg.,

Pittsburgh, Pa., F. G. Robb, Inspecadvertisement and then wait for the tor, 303 Kellerman Bldg., Eighteenth

Providence, R. I., Boston, Office. St. Louis, Mo., Fred T. Byran, In-



#### "I Bought a Parrett Tractor Because It Has Been Tested for 5 Years"



This is what many a careful tractor buyer will tell you.

He, like you, prefers a tractor that has passed the experimental stage, that has proved its worth, that he knows can do the work well and economically.

For five years now the Parrett has served with remarkable efficiency in nearly every part of the U. S., in all kinds of soils and climates, even in such extremes as breaking the tough sods of the Northwest and working the rice swamps of the South.

This five years' experience has shown that you can *depend* on the steady service of the Parrett tractor, as a 3-plow, one-man, all-purposes, kerosene-burning tractor. The Parrett is self-steering in the furrow, requires no special hitch and can handle belt work equal to running a 20- to 26-inch separator with constant efficiency. It is a dependable all-around farm power unit.

Write to nearest distributor or direct to us for catalog

PARRETT TRACTOR COMPANY, 451 Fisher Bldg., Chicago, Ill. Michigan Parrett Tractor Co., Distributors, 306 Pine St. So., Lansing, Mich.

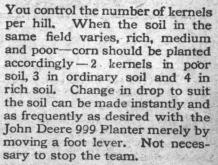




999 Corn Planter. The Accurate Drop Planter

Natural Cell Fill, edge delivery seed plates are used on this planter-every kernel enters the cell in the seed plate in its natural position. The sloping hopper bottom feeds the corn to the cells whether the hopper is full or nearly empty. This is the most simple yet most accurate planting mechanism ever used on a corn lante aropping aevice will plant butt kernels without cracking the seed, or without losing its high grade of accuracy.





Also instant change from hilling to drilling and back to hilling—and the John Deere 999 gives nine drilling distances without changing seed plates

Valuable Books-FREE "More and Better Corn' -Beautifully illustrated in four colors. Twenty-four pages of information interesting and valuable to every corn grower.

"Better Farm Implements and How to Use Them"-156 pages-tells all about a full line of labor-saving farm machinery. Worth dollars. To get these books state in which farm implements you are interested and ask for package CP-421.



# **More Potatoes and Better Ones**

When you spray only with poison you are not getting the return you should for your work. You need a fungicide also.

It was discovered long ago that potatoes produce more

heavily when sprayed with a suitable fungicide. The New York Experiment Station says—"It does not pay to spray for bugs alone." Their ten years' experiments with fungicides show an average yearly gain of 97 1-2 bushels of potatoes per acre. A nineteen-year test at the Vermont Station shows an average yearly gain of 109 bushels per acre. Spray to prevent blight-it pays.

Bugs are bad, but blight is worse although the spores that cause it can be seen only under a powerful microscope.



PYROX is both a poison and a fungicide. It kills the bugs and flea beetles, prevents blight, invigorates the vines, imparts a rich green color to the leaves, and gives the little potatoes a chance to become big ones.

Pyrox is a smooth, creamy paste, all ready to use by mixing with cold water. It mixes easily and saves time and labor. In a letter to a friend, the Editor of "The Fruit Belt" says: "I have made up many thousands of barrels of spray mixtures on the farm, and I can say to you I have mixed my last barrel. I now use Pyrox." Pyrox is as good for apples, tomatoes and other fruits and vege-

Most good agricultural supply dealers sell Pyrox. Last year the demand for Pyrox exhausted the dealers' supplies. See your dealer at once about your supply or write for new Pyrox Crop Book. Address tables as it is for potatoes.

**Bowker Insecticide Company** 43 E Chatham St., Boston 1016 Fidelity Bldg., Baltimore

It does as good work as you can do with a

-has no prongs or teeth to destroy

Its the cultivator for corn, sugar beets and beans and uck crops planted in rows.

, Write today for catalog which fully explains The Fowler—The Progressive Farmer's Cul-

tivator, that covers 8 acres a day --- It's free.

HARRIMAN MFG CO., Box 514 Harriman Tenn.

TOAL FAN

IRUN AGE

Farm, Garden and Orchard Tools

Answer the farmers' big questions, How can I grow crops with less expense ? How can I save in plant-ing potatoes ? How make high priced seed go farthest ? The

**IRON AGE Potato Planter** 

solves the labor problem and makes the best use of high priced seed, Means 85 to 550 extra profit per acre, Every seed picce in its place and only one. Saves 1 to 2 bushels seed per acre. Uni-

No Misses No Doubles Bateman M'P'sC

Bateman M'f'g Co., Box 24B, Grenloch, N.J.

Menns 35 to 350 extra prom Every seed piece in i and only one. Saves I t bushels seed per acre. U form depth; even spacing. We make a full line of potato machinery. Send for booklet today.

The

Progressive

Farmer's

Cultivator

hoe—It cuts every weed—none can dodge it—

not even Canadian Thistles-Keeps the surface in

vents the escape of soil moisture.

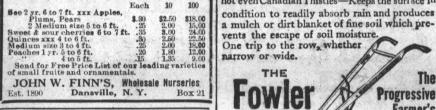
One trip to the row, whether

narrow or wide.

Fowler

#### Works Like a Hoe TREES FOR PROFIT Mr. Planter if you are going to plant out **Covers 8 Acres A Day**

an orchard this spring be on the safe side by planting my Guaranteed Trees. True to name, free from disease and packed so as to reach you in perfect condition. 10 Each 100





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Frost Proof cabbage plants, Early Jersey Wakefield, Charleston Wakefield, Succession and Fist Duich is 11.50 per M. byfespress collect; 36c per 100 hp parcel post prepaid. O. J. & C. Whaley, Martin's Point, P. O., S. O.

#### Cranberry Bog Development By RALPH W. PETERSON

(Continued from last week).

cost. check regardless of the expense in- dleboro, Mass. The various states have volved although it should not run over local sales companies and are all affil-\$75 an acre for the first two years and lated under this one company. Gluts will be very small thereafter. Certain in the market are prevented, for the kinds of marsh grasses are almost im- berries are packed uniformly and movpossible to eradicate if they are al- ed at the right time and to the right lowed to become established on a bog. places, thus eliminating criss-cross Horse tail will also cause the bog own- shipping and wasteful competition. A er much concern if it becomes wide- corps of inspectors check up on the spread. Moss soon covers the sand if condition of the berries and are a valuthe surface is kept too moist. An iron able aid in marketing the crop. This sulphate solution of twenty per cent is marketing cooperation did away with helpful but the continued use of the much of the former competition that spray is hard on the vines. A handy was not only wasteful but slowed up little tool for weeding is a weeding the movement and sale of the crop by hook that enables one to work in withholding the information necessary among the vines. All roots should be for proper distribution and economical removed in weeding if possible. Sand marketing. This organization has reis also very effective in smothering out sulted in cheaper and better berries to the weeds.

#### Resand in Fall.

Some resanding should be done annually on a bearing bog as a protection against frost and insects, one-half ket at good prices. The price at presinch of sand is spread in the fall or in ent is from \$11 to \$16 a barrel. The the winter on the ice. The small ap- average price for the past ten years plication of sand also helps the new would be from \$5 to \$8. Over-producrunners to take hold and become tion need cause little concern to the rooted.

straggling vines will be found over the are extremely hard to find and the bog as a result of dense growth and land should not be left idle but should bog is gone over with a pruning knife and rake and thinned out.

The most important feature in the care of a bog is the use of the water. The water answers a triple purpose. It furnishes the vines plant food in a bog is from fifty to one hundred barsoluble form, it is a good insurance rels per acre. The greatest drawback against frost, and it is very effective in is the original expense of development the control of insects. In some cases but the cost of maintenance after the the berries are picked "on the flood" first two years is very light. The total and allowed to float down to the outlet productive cost of a good bog will be where they are secured. This is a poor from \$1.50 to \$3.00 a barrel, which method of harvesting, however, as it is leaves a very satisfactory profit. an endless job to dry them.

#### Watering the Bog.

The water is put on the bog in the fall just before the snow flies and kept on until early in the spring. The vines realize as never before the value of become frozen in the ice and during the Everbearing strawberry, for family warm days the water from the melted use or commercial purposes there is ice must not be allowed to accumulate nothing to compare with them, instead under the ice and heave out the vines. of one crop in two years you get three. Holding the water on the bog until May 25 every second year is a very were a failure in a commercial way as effective way of killing the pupae of a summer berry, i. e., fruiting a bed the fruit worm. Another reflow for the second season, therefore I would two days early in June acts as a pre- like to state our experience for the caution against the fire worm and oth- season of 1917. er pests. If frost threatens on any of vines. It may again be necessary to summer and fall. flood the crop around harvest time if there is danger of a freeze.

Harvesting the Crop. tember and extends into October. The izer, cultivated and hoed frequently berries are picked dry and by hand or until berries began to ripen. by scooping. The former method is From June 25 to July 27 the regular seldom used except for the first few summer season, we picked from this crops. A large scoop with hollow met- acre 5,336 quarts of fancy berries al teeth and back is the usual method which sold for \$667. and is much more rapid. With a good began picking the fall crop. After the crop, ten barrels can be scooped in a first few pickings these berries were day. The berries are put in bushel, not as nice as those grown on new slated crates and piled in the screen set beds so it was necessary to sort house and kept well ventilated. Some them, but nevertheless we picked 18,34 time during the fall or winter, accord- quarts, which sold for \$300, making a ing to the market demand, the berries total of \$967. are run through a separator which is As a summer berry they are the a combination cleaner for removing first to bloom in the spring, if frosted the chaff and a hopper for separating will blossom again, if not frosted will the berries into the various grades ac- ripen ahead of common kinds. Our cording to their resilience. The ber- berries were on the market one full ries are well packed in eighty-five- week ahead of competitors growing the quart barrels and placed upon the common kinds. market as needed. Sixty per cent of Charlevoix Co.

HE cost of maintenance of the the cranberry crop of the United States bog is very small as compared is handled by a cooperative company with the original construction known as the New England Cranberry The weeds must be kept in Sales Company, with its office at Midthe consumer and at the same time has secured better prices for growers.

#### The Market is Good.

Cranberries always find a ready margrower with a bog naturally adapted After harvest season is over, some for economical production. Such bogs the use of the cranberry scoop. The be pressed into use. The cost of development will be from \$200 to \$1000 an acre. The expense involved will in many cases prohibit the utilization of land, even naturally adapted.

The annual yield of a good bearing

#### EVERBEARING STRAWBERRIES.

At the opening of a new season we

It has been stated by some that they

Our method in the past has been to the late spring nights the water must renew the bed each spring, setting two be rushed into the ditches as a precau- by three feet and allowing all young tion. Usually enough heat is radiated plants to take root, pick all blossoms from the water without covering the up to July 1 and fruit during the late

The past season on one acre fruited in this way the season of 1916 dug several thousand plants from between the The harvesting season begins in Sep- rows. applied a half ton of 2-8-3 fertil-

On August 7

W. F. TINDALL.

MARCH 30, 1918.

#### MARCH 30, 1918.

#### TROUBLE DEPARTMENT.

How can I reclaim an old asparagus bed that has gone back into a hard sod? Would an application of salt help? When is the best time to apply it, and do you just strew it over the top of the ground? Would there be any chance of good results from using seed potatoes grown from vines that blighted badly last year?

Ottawa Co. M. A. It is rather hard to advise you with reference to the reclaiming of an old asparagus bed, as we cannot tell just how much the bed has deteriorated. A light application of salt will, undoubtedly, keep the grass and weeds in check, but it will not have enough effect to entirely destroy the sod. The most advisable thing to do would be to get onto the bed with a hoe when the ground is workable and clean out the sod to the best of your ability. The bed should then be kept in good tilth the rest of the season and next fall a thorough application of manure should be given.

The use of salt is not essential for good asparagus production, but it is not detrimental to the plant and is used by many asparagus growers.

We would not advise you to use for seed, potatoes that are diseased in any way or those that were blighted. It would really be a waste of time and energy.

#### Hogs in Orchard.

would like to know if there is anything I could paint on my pear and ap-ple trees so the hogs won't eat the bark, some dope I could put on that the hogs don't like.

Berrien Co. C. F. H. We know of nothing which would absolutely prevent the hogs from eating the bark of the trees. You might try painting the lower parts of the trees with a thick mixture of lime-sulphur, but this in time would be washed off and lose its effect.

Several fruit growers who have allowed their hogs in the orchard have found that if there is plenty of pasture for the hogs and probably some feeding besides, they rarely bother trees.

Mr. Luther Hall, of Ionia county, one of the best orchardists of the state, plants special crops in the orchard for the hogs. He has found that by doing this and not putting too many hogs in the enclosure, he never has trouble.

#### POPCORN IN THE HOME GARDEN.

Considerable interest has recently been awakened in popcorn as a farm crop, and it is undoubtedly true that it may be made an important addition to our staple food products when the public has become educated as to its merits. It is a crop that responds to intensive cultural methods, as a considerable quantity may be grown on a limited area. No special culture is needed, however, for it will grow wherever field or sweet corn will flourish. As the stalks are smaller than other varieties of corn, one or two more may be left in the hill than with toher Under good culture several kinds. ears will grow on each stalk.

Popeorn flour is being used as a considerable extent by bakers in the making of cookies and crackers, while in the home it can be used in many ways. Some home gardeners use considerable of the flour in home cooking, using a small hand grinder to grind the corn. This method will commend itself to economic housewives in these times when it is so necessary to save wheat and other food stuffs.

There are three distinct kinds of popcorn commonly grown-the White Rice, Red Beauty and Queen's Golden. Of these the first named is the most popular and is the sort that should be popular and is the sort that should be grown if one were making the matter a commercial venture. Any of the varieties are excellent for home use, but the White Rice is the only one that sells well in the market. Large growers plant this almost exclusively. One requirement for success is to plant popcorn a considerable distance from any other kind of corn. New Hampshire, C. H. CHESLEY.

#### THE MICHIGAN FARMER

you add the hard extra labor involved in hauling, piling and hand spreading, it's safe to make the figure *twice* that. Many other Experiment Stations and the U.S. Department of Agriculture support these figures, and some make them even higher. Now you can see from this why, on any farm of 80 acres or more, I am willing to put my reputation squarely behind the

guarantee I knew I was taking no chances.

Here! Take your pencil and let me prove it.



A farm implement which pays for itself in one year is a 100% dividend payer ever afterwards--a fact that thousands of successful farmers have learned concerning the New Idea. Why shouldn't you get this dividend?

above remarkable guarantee on the

OL J

In Bulk in

**Box Cars** 

Or In

100-Lb.

Sacks

The New Idea was the first spreader to embody the widespread idea and maintains this supremacy to this day. It operates with an everlasting chain sprocket wheel drive that minimizes breakage and saves wear. Has a tight bottom and an endless chain conveyor that brings all the load to the two beaters. Handles a load 30 inches high as readily to the two beaters. Handles a load of inches high to touch as any other does an even box full. A convenient lever allows spreading any quantity desired-.3, 6, 9, 12 or 15 loads per acre. Back of the money-making New Idea Spreader See the machine at the New Idea dealer's. If you don't know him, w

is my guarantee that means the best in material, construction and operation. You don't gamble when you buy a New Idea because I will even make good any breakage from any cause within one year.

1) 3

I've been in the spreader business so long that I know what

I'm talking about. Take my word for it, when I signed that

Suppose, for argument's sake, that you keep but six cows, 4 horses and a few hogs or sheep. They will make--according to Cornell Experiment Station reports--approximately 120 tons of manure per year. When these reports were

made the chemical value of fresh manure figured out \$3.31 per ton, and piled or stored manure at \$2.55 or less, depending on the length of time it has lain. Nobody

Guarantee

reader to Pay for

I want you to read our immensely interesting booklet "Help-ing Mother Nature "and

NEW IDEA SPREADER

will gladly send it on request. Also our hand-some catalog. If you want to make or keep your land fertile this will pay you. Send today. Address me at Box 533

B. C. OPPENHEIM, Mgr. NEW IDEA SPREADER CO. "Spreader Specialists" MAIN OFFICE AND FACTORY:-COLDWATER, OHIO

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Strawberry Plants That Grow "PROGRESSIVE" Best Fall-Bearer; Also Stan-dard June sorts, including our new seeding, "Collins," Raspherry, Blackberry, and G the Plants in Assortment. Catalog Free.



#### 9-425



Additional Stock Ads, on Page 239

CHECK ILK

426-10

# More Money From Every Cow!

Every cow in your herd is a milk-making machinethe quantity of milk depending upon her being properly and abundant-ly fed. The more

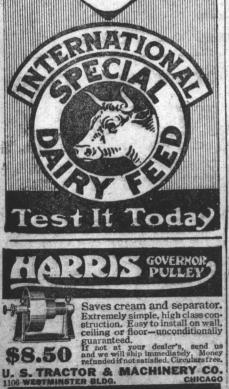
#### International Special **Dairy Feed**

she eats-and she will eat all you can give her with relish and good digestion—the more milk she will give. And more milk means more money for you.

#### **Big Extra Profits** are shown by the In-ternational Special Dairy Feed reports ofhundredsofdairymen. Gains of two quarts of milk per day per cow are common. International will make your feed bill smaller and your milk check larger.

Try a Ton of International today. If your dealer does not sell it, avoid substitutes and write us.

International Sugar Feed Co. Minneapolis Minn.



# Dairy Problems

#### Summer Pasture for Cows.

Summer Pasture for Cows. Will you kindly advise me relative to this particular crop and field: What will be the best crop to sow on five acres of sandy land for the pasture of three or four cows? Have been think-ing of sowing rape, and could I seed it and stand a chance of getting a catch if sowed with the rape? It was sown last year to millet and buckwheat and seeded, but failed to get a good stand of clover. M. E. B. It is not the easiest thing in the world to get a temporary summer pas- in racks on the inside of the barn. ture for cows. A well established grass

I would prefer the common red clover. be given to the soy beans.

so that they will not smother the clo- growth. ver. The trouble of it is that with this sort of pasture the tramping of the stock on the soft ground will destroy more of the plants than they eat, but the pasture.

#### Winter Vetch as Soiling Crop.

Would be glad to have advice in regard to sowing whiter vetch and spring rye this spring to plow under late in summer for fertilizer purposes. Would it be a success or is something else more successful? C. S.

ing that would be any better to sow short, as they are today. with spring rye than winter vetch to winter rye instead of spring rye.

splendid crop to turn under, only they under before September or the last of August, but I am of the opinion that PROBLEMS OF OUR MILK PRODUCsoy beans would furnish more surplus vegetable matter to be plowed under than any of the crops mentioned.

COLON C. LILLIE.

#### FEEDING CORN AND SOY BEAN SILAGE.

gotten the idea that the addition of the with at certain times during the year. soy beans would necessitate feeding The future of our organization, as of corn.

when they were a little dry a half-inch in holding our best markets.

stream of water was run into the blower to insure their preservation. Soy beans ensiloed in this way can be fed with perfect safety. The addition of the soy beans makes

the silage richer in protein than corn silage alone. Stock seem to like it as well as they do pasture crops. While it comes pretty near making a balanced ration we usually feed a little more concentrated dry feed to the cattle, such as cottonseed meal or chopped corn sprinkled over it, then the cattle are let into the barn. The hay is fed

When fed all the silage they can eat pasture is the very best kind, but as our cattle do not eat very much other long as you haven't got this, of course roughage. The racks are kept full of you want a temporary pasture, and clover hay which they munch at, but this can best be provided by using a they do not consume very much of it. mixture of several kinds of plants. I This kind of silage is splendid for the would use oats and Canada field peas, growing calves and young stuff. We Dwarf Essex Rape, and common red have found that when feeding all the clover or Mammoth clover. If the sea- hay and silage they could eat, without sons were favorable your clover might any supplements, they have made do well enough so that you could leave gains as high as two pounds a day, and it for hay the next year. In that case some of the credit for these gains can

This land should be seeded as early We find the silage valuable in the as possible and you should use a lib- spring when the stock are first turned eral amount of seed. Three bushels of on pasture. The pastures are rather oats and peas are none too much. Five watery then, and instead of the stock or six pounds of rape seed and eight clipping the pastures short in an effort or ten pounds of red clover seed would to get all the feed they want they come be none too much. You want to get up early in the evening to get a feed just as thick a stand as you can. The of silage. It maintains them in good cows will keep the oats and peas down flesh until the pasture secures a good J. L. JUSTICE.

#### THE SOIL BUILDER.

It should be our first ambition to win this cannot be helped. Nothing only the war, but while our burning desires good, tough sod will stand the tramp- are leading us to make a supreme efing of the cattle without destroying fort just now, let us remember that there may be just as loud and earnest calls for grains and meats for a few years to come; and while we work gard to sowing winter vetch and spring hard to do our best let us consider it our duty to so manage that the possibilities of the production of grains and meats will be as great at the end of I think probably you could get noth. the period of the war, be it long or

Those who are soil robbers and folbe turned under as a soiling crop later low the plan of special crop farming in the season. The only question is, for their own selfish gains alone, have when would you want to turn this un- a narrow vision of life and its meander? The spring rye will come right ing and live in a narrow sphere. But in the middle of the summer. If you the man who lives and strives for the wanted to defer this plowing under best interests of humanity, whether in until later it might be better to use high life or among the teeming masses has a large and noble soul; and is Oats and peas sown early make a capable of enjoying many benefits which flow from the fountains of love are pretty valuable if you get a good and true happiness, while he leaves incrop. These ought to be plowed under fluences behind which will lighten the about the first of July. Possibly a still burdens of life which would otherwise better crop would be soy beans. They, bear heavily on the deserving and inhowever, would not be ready to turn nocent members of future generations.

#### ERS.

#### (Continued from page 422).

lems of selling and distributing their products before the dairy industry can be placed on a sound and permanent basis. We must meet organized buying with an efficient selling organization A farmer who is planning on putting and we cannot do this unless our memup corn and soy bean silage for the bers are willing to cooperate with us first time, this year, asked me if he in our efforts to equalize the supply of would dare feed to his cattle all of the milk in the different areas so that silage they could eat. Somehow he had there shall be no surplus to contend

the silage in limited quantities. We well as that of the dairy industry in have just put into our silo the third Michigan, depends in a large measure crop of corn and soy bean silage, and upon how you support your selling except for this year the proportion of agent in handling this coming surplus each crop has varied from about one during the spring and summer months. of soy beans, to two, three and four Your loyal support is necessary in our efforts to protect the Detroit area, and In this time we have fed about sixty prevent a sweeping decline in prices head of cattle, giving them after the throughout the state. Such a decline first few days of feeding all the corn in prices at the present time would and soy bean silage they could eat mean the ruin of the dairy industry in from two to three times a day, and Michigan. Now is the time for all there was never a sick one among loyal members to come to the aid of them. A large proportion of the beans the Michigan Milk Producers' Associaas well as the corn were mature, and tion. With your help we can succeed

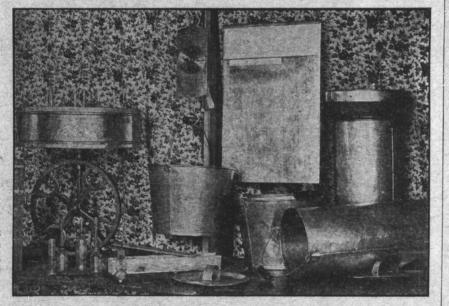
#### Michigan's First Babcock Tester By J. H. BROWN

HE Babcock milk tester is such Dr. Kedzie was with us some of the plenty of dairy farmers who have no it was impossible to test them all. Ustesters of their own. Some do not be- ually the tests were made on the platlieve in them, or at least claim they form just before the close of the foreare no good, and it is this class who noon session, or the first thing in the keep cows and are not genuine dairy- afternoon. A crowd would gather men.

cows were gentle and fat, and great purpose. pets in the family, and we wished to At Marquette one farmer brought in find out if such stories were true.

a common thing these days on time and he always drew a packed nearly all the progressive dairy house. At several places the various farms of Michigan, and yet there are samples of milk piled up so large that around the platform and pack the About twenty-four years ago this front seats and space between. Every winter the work of the Babcock tester man, woman and child wanted to see first became known throughout the the colum of fat cooped up in the neck state. Dr. Babcock, of the Wisconsin of the test bottles. We have before University, had invented and perfect- us, as we write these lines, the comed the machine and refused to apply passes we used that winter to measure for a patent. We heard about it and the column of fat. They were instantsent for one to use in our own small ly adjustable, very convenient and acherd of grade cows. Stories had been curate, and were probably the first told about robber cows and that these compasses used in Michigan for this

a sample of milk in a small wide-neck-That winter we were engaged by the ed bottle. It looked suspicious and we state board of agriculture and super- decided it was skimmed from the top intendent of state farmers' institutes to of a pan of milk that had set over attend institutes in many of the coun- night. We showed it to Dr. Kedzie, ties of both peninsulas. Farm and and he suggested that we show up the



First Babcock Tester Ever Used in this State.

dairy topics were assigned to us, but farmer. When we reached this sample terested.

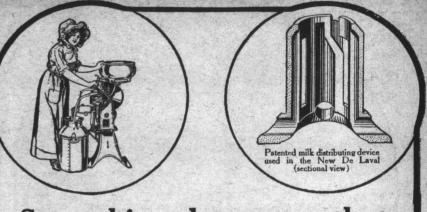
ic acid.

the eight test bottles, pipette, etc., that argument? took about all the space in the trunk. The picture also includes the scales, but sometimes it was shipped by ex- negative being preserved, and we are

day farmers' institutes we attended. traveling and collapsible outfit.

our special job was to test samples of in the test bottle, at the close of the milk, cream and skim-milk, at each in- whirling job, the compasses showed stitute, and explain the process and 14.6 per cent of butter-fat. We handed value thereof to all who might be in- this bottle to Dr. Kedzie and he "showed it up" all right. That farmer had The accompanying picture shows the previously bragged about what a wonfirst Babcock tester used in Michigan derful cow he had in his barn, and we for the purpose of testing and demon- noticed that he had quite a strut in his strating the new way of finding out attitude and promenade when he handthe amount of butter-fat in any cow's ed us the sample. At the close of Dr. milk, at the various farmers' institutes Kedzie's "show up" it was found that held in both peninsulas during the win- the farmer had disappeared. Probably ter of 1893-4. The machine was more it was high time for him to hurry or less crude and a mean thing to car- home and milk that "wonderful cow." ry along the road. Finally we took a We tested numerous samples of trunk and "knocked down" the outfit skim-milk that winter and showed the so it would all go inside, with the ex- waste of fat in the shallow open pan ception of the gallon bottle of sulphur- setting. That same winter we bought the first cream separator that, so far The first Babcock tester made by as we could find out, had been intro-Dr. Babcock, and pronounced satisfac- duced into our section of the state. tory for general use by dairy farmers, Each week we took samples of skimhad a large pan, with cover, that held milk from our cream separator and the test bottles. The frame under- tested. These samples were compared neath had a large wheel, as shown, with those handed in at the first instiand the upright shaft was turned by tute sessions each week, as taken from the friction of the outer ring of the the shallow open pan skim-milk. Many gainst it. Sometimes the wheel farmers' wives that winter declared the would slip, as there was no provision fat in their skim-milk was not wasted, made for tightening the bearing. So for it was fed to the pigs. How many we cut out the center bolt and put in times that winter do you suppose Dr. another with washer and lock nuts. Kedzie and others of our corps of in-This tester, when knocked down, with stitute speakers proved the fallacy of

In fact, there was no room to carry pails, cans, milk record, etc., that we extra clothing, except overalls and a used that winter on our farm. This jacket. The trunk was usually checked, picture is the only one we can find, no press with Dr. Kedzie's chemical outfit. keeping it for a relic. The tester was That winter there were great crowds worn out in state service and was disat some sessions of the scores of two- carded the following winter for a new



Some big advantages that you can obtain only in the

new de laval CREAM SEPARATOR

GREATER CAPACITY: Without increasing the size or weight of the new bowl, its capacity has been increased.

CLOSER SKIMMING: The improved bowl design, together with the patented milk distributor, gives greater skimming efficiency.

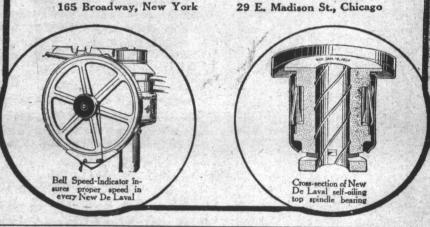
EASIER TO WASH: Simpler bowl construction and discs, caulked only on the upper side, make the bowl easier to wash.

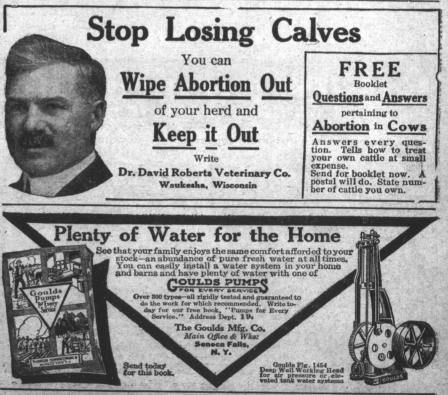
HAS SPEED-INDICATOR: Every New De Laval is equipped with a Bell Speed-Indicator, the "Warning Signal" which insures full capacity, thorough sepa-ration, proper speed and uniform cream.

If you haven't the spare cash right now, that need not stand in the way of your getting a New De Laval at once. We have an arrangement with De Laval agents which makes it possible for any reputable farmer to secure a De Laval on the partial payment plan—a small payment at the time of purchase and the balance in several instalments—so that your De Laval will actually pay for itself while you are using it and getting the benefit from it.

Why not see the nearest De Laval agent at once? If you do not know him, write to the nearest office for new catalog or any desired information.

THE DE LAVAL SEPARATOR CO.



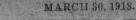


When writing to advertisers please mention the Michigan Farmer.

EASIER TO TURN: The low speed of the De Laval bowl, the short crank, its unusually large capacity for the size and weight of the bowl, and its automatic oiling throughout, make it the easiest and least tiring to the operator.

WEARS LONGER: Due to its much lower bowl speed, high grade of materials used, and careful and exacting workman-ship, the De Laval outlasts and outwears other makes by far.

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VV saving machinery is demanded on the farm. Olds Engines are putting the farming business on a war-time basis because they are durable and economical.

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The Olds today-the product of 40 years experience-is better than ever, And our guarantee — three times as strong as heretofore — whereby you are the judge as to whether a part is defective or not, is your rure protection. Write for full particulars about this hopper cooled, frost proof engine which is equipped with the Webster Tri-Polar Oscillating Magneto, when so desired. RELIANCE ENGINEERING COMPANY, LANSING, MICHIGAN 



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#### Live Stock for Our Farms By ALMOND GRIFFIN

that the state war board set apart a each group of five farmers, with rota-

revolving fund of \$10,000 to encourage the live stock industry — largely sheep-in the state of Michigan. With ewes selling for around \$24 a head and lambs at seventeen and eighteen cents a pound at Chicago stock-

yards, it is figured that lambs are the izing a live stock loan association, with best "buy" at the present time. Sec- ability to loan grazers up to \$1,500,000. reta., carton figures that one hundred It is expected that at least fifty of the ewes would cost \$2,400. By June 1 western sheep men will visit Michigan the chy of 700 pound's at seventy cents a pound, in shape to offer financial help when would bring \$490. He figures that needed. they would raise eighty lambs, which yearlings cost \$3.08 a head less than the ewes.

Michigan farmers are not being en- man in charge. couraged to take many lambs, unless they are experienced sheep men and have large farms. Dr. Halladay will buy on the stock yards in Chicago, South Omaha and possibly Kansas City. He will be on the job personally, or will have a trusted representative, and the thought always in mind will be that this is a war winning measure, not a money-making scheme for anybody, and the stock must be right in every way. Purchases will be made by the carload with shipments to some the ease of working it greatly increascommon point for distribution to farmers in lots of two to thirty or more each. They will be sold at current sition had been thus re-arranged bemarket price, ewe lambs now selling at eighteen cents per pound, live weight, not having him properly hardened and averaging seventy-five to eighty pounds each.

Western Michigan Development Bu- ment the least break in the skin came reau, is in charge of the distribution on either one of his shoulders, the in the western part of the state, and only way he could be put into the colup to March 18 he had fifty-seven writ- lar was to buckle it and slip it on over ten applications in hand from farmers his head. Even at that he would do who want to buy sheep through state considerable jolting about when the aid in numbers of three to thirty head harness was put on him and of all the each, with one application in for 1000 unpleasant beasts to work, this horse head. The farmer makes application beat everything I ever tried. He never for the kind and number wanted, giv- would take hold until the other horse ing banking reference and the local started the load, and all this might bank carries him until the state is re- have been averted by a little judicious imbursed, unless he has cash to pay care in handling. I know this to be a for them.

Cattle husbandry is also being en- conditions said so. couraged, some people believing there is more money in cattle than in sheep. that have shoulders that will never be For the territory around Grand Rapids fit to work until there has been an opthe fair grounds at Comstock Park will eration performed and part of the scar be utilized as a distributing point. The tissue cut away. Every time a shoulstate and the Western Michigan De- der is sore, in healing up there is bound velopment Bureau are paying the ex- to be some scar tissue formed and the penses of Dr. Halladay and Secretary more the shoulder is affected, the more Gibson, so that farmers are getting scar tissue is formed and in the end their stock exactly at cost.

distribution in that territory.

#### North of the Straits.

vice-president, Michael Messner, Jr.; ing manure and if there is any heavier

R. H. H. HALLADAY of Lansing secretary and treasurer, F. W. Nichpresident of the State Live ols; executive committee, these officers Stock Sanitary Commission, an and Frank Eiola, Wm. Johnson and L. experienced sheep and cattle man, has M. Geismar, county agriculturist. It is yielded to the wishes of Governor planned to place pure-bred sheep on Sleeper and the burden of purchasing Houghton county farms on shares. western sheep, lambs and cattle for The stock is one-half subscribed, which Michigan's grazing and cut-over lands warrants placing an order for the first rests on his shoulders. It was largely carload of 225 sheep. The rams will through the efforts of Secretary Car- be pure-bred Hampshires, twenty-five ton of the public domain commission, in number, and one will be placed with

> tion to insure that no flock will have the same sire more than one year. The ewes will be grades at first but it is planned to work into pure-bred Hampshires in a few years.

Upper peninsula bankers are organ-

.ese ewes, estimated at this spring and the bankers aim to be

A sheep and wool company is being by October 1 would be worth \$672, so formed by business men of Iron Mounthat net cost of ewes would be \$1,238. tain, Florence and Iron River, with Taking one hundred lambs averaging over \$150,000 already subscribed in seventy-five pounds each, it is figured land and sheep and \$100,000 is to be they would net \$420 and the net cost raised for working capital. It is planof one hundred yearlings October 1 ned to establish a 10,000 acre sheep would be \$930, which would make the ranch in Dickinson and Florence counties, stocking same with 5,000 sheep and with an experienced western sheep

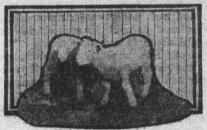
#### Fitting the Horses

N every farm where horse flesh is the motive power ,there is one problem that comes once a year,

namely, the preparation of the teams so that they can stand the hard work of spring and summer without a blemish resulting, such that the value of the horse is not greatly decreased and ed. One of the first teams I ever drove had in it an ugly horse and his dispocause somebody had sometime erred in when he started in with the spring work. This horse was a big fellow, John I. Gibson, secretary of the abundantly able to work, but the mofact because neighbors who knew the

Then there are hundreds of horses we have a great ill-shapen portion of T. F. Marston, of Bay City, secretary flesh and hide that it is practically imof the Northeastern Michigan Develop- possible for the horse to use in haulment Bureau, will also look after the ing and a sore shoulder is pretty likely to cause one or the other; a poor hauler or a poor disposition.

The Houghton County Live Stock This condition can, in most cases, be Association, capital \$10,000, has been greatly relieved by hardening a horse formed at Houghton, with the follow- into the work. Usually one of the first ing officers: President, John A. Doelle; jobs the team is put at is that of haul-



#### MARCH 30, 1918.

job than hauling a manure spreader in the early spring, I have it yet to see. The fact that the heavy hauling lasts for only a short while does not particularly alter the question. Blisters may be put on tender hands in ten minutes while if the same work was spread over two hours it would have no affect whatever, so in hardening the horses into work it is better to give them light work for long periods rather than severe work for short periods. Light work stretched over a week or ten days will usually put the teams in good condition for their spring's work. If this does not seem to harden the muscles rapidly enough, the shoulders may be bathed every night in tan bark tea where hemlock bark may be had. Good strong table tea will also do the same thing, or an alum water solution is often of value.

The collar that fits a horse is the most imperative of all. No amount of washing or hardening will make a misfitting collar fit. The collar should be of the right size and adjusted so that the point of draft will be just a little above the shoulder point. Pads on collars usually do but little good. When a rough plow handle blisters our hands we do not usually put on canvas gloves. Rather, we get out the draw shave and some sandpaper and make the handles smoother. In this connection I have used the solid stove blacking to rub onto the wearing surfaces of the collars every morning to make them smoother.

Seldom as it is done, harnesses are made so they can be adjusted to the horse. It is easy to adjust the harness to the horse, but it is much more difficult to adjust the horse to the harness as is so often tried. There is no excuse for the top of the head becoming sore through too tight a bridle. This often leads to poll evil. Neither is there any excuse for the crupper being so tight as to cause the horse to rise up behind in righteous indignation. The hames should also be adjusted so that the part where the hauling is done should be at or a trifle above the shoulder point.

Not only does it conduce to the pleasure of driving a team to have them free from sores and blemishes, but it also keeps them more valuable in case a sale is to be made. If the harness is gone over carefully each spring to make sure that it fits the particular horse on which it will be used all summer, there is but little excuse for sore shoulders and sore necks.

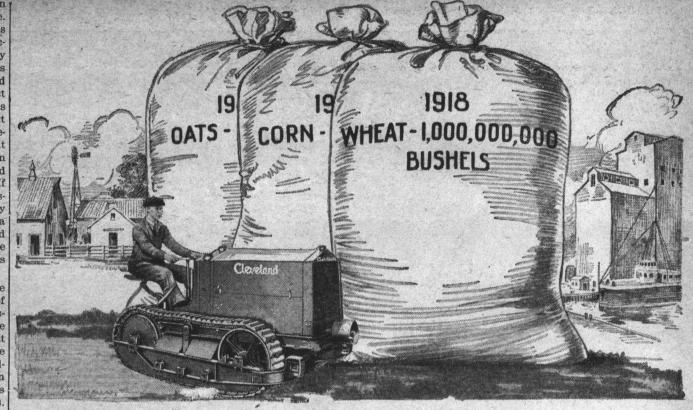
Harden off the shoulders by light work for a time and if this is not sufficient, bathe them once a day with some good muscle toughener. In addition to this, careful driving and close watching will keep the team in A-1 condition, to the mutual profit of everybody concerned.

Indiana. I. J. MATHEWS.

#### FAITH IN THE BEEF HERD.

Breeders of beef cattle have a big advantage over dairy farmers at the present time, as the big labor shortage can be taken care of only by keeping a bigger acreage in grass and hay, two crops that do not cut directly into the shortage of human food, but make it possible for the farmer to put every acre on the firing line to help win the var. With the world already over 1 000,000 head of breeding stock short since the war started, and this shortage growing every day, the producer of live stock has a sound future ahead, in spite of handicaps that at present make him wonder about the safety of staying in the producing business of some breeds.-M. A. Judy.

Russian Crop Outlook Unfavorable. —Stocks of food in the populated centers of Russia are small and the agricultural outlook for 1918 is unfavorable, according to information received by the U. S. Food Administration. THE MICHIGAN FARMER



# The Task Before the Nation's Farmers

One billion bushels of wheat must be produced in this country this year.

An enormous increase in the yield of corn and oats is necessary.

Thousands of extra acres must be cultivated. Each individual farmer must produce about one-third more grain than last year.

The task before the nation's farmers is stupendous. Intensive methods of every kind must be employed. Machinery must take the place of muscle wherever possible.

In the face of this emergency the Cleveland Tractor becomes an absolute necessity. Its

tremendous value to the farmer is emphasized more than ever.

The Cleveland Tractor not only

conserves time and labor—it does far *cheaper* and *better* work. And by doing better work it makes possible the production of larger and better crops—enabling you to do your part for the government—and make more money for yourself.

The Cleveland Tractor shows the way. It plows 3<sup>1</sup>/<sub>2</sub> miles an hour—8 to 10 acres a day. It travels on its own tracks like the great "tanks" of Europe. It will go practically anywhere—through ditches, gumbo, sand and gravel. It is steered by the power of its own engine—simply and easily, and will turn completely around in a twelve-foot circle.

It will not pack the soil, will not mire, will not slip or

flounder. It has 600 square inches of traction surface. The track is designed for long service. The sections are constructed to prevent filling or packing with mud, and protection is provided to prevent dirt and mud from falling into the track. The sections are joined with hardened steel pins which have their bearings in hardened steel bushings. The Cleveland weighs less than 3200 pounds. It can be housed in less space than is required for one horse.

The Cleveland develops 12 h. p. at the drawbar for hauling and gives 20 h. p. at the pulley belt—plenty for stationary work of all kinds.

**Ieveland Tractor** 

But in spite of its unusual power, the Cleveland is small and can readily be used in orchards and under and among small fruit trees.

13 - 429

Rollin H. White, the famous motor truck engineer, designed the Cleveland Tractor. He has used only the best materials. Gears are protected by dust-proof, dirt-proof cases and are of the same high quality as those of the finest trucks.

Prepare now to produce the enormous crops which we must have—and incidentally make more money for yourself. Get ready now for the great tasks before you. Order your Cleveland Tractor now.

Write to us for complete information and the name of the nearest Cleveland dealer.

THE CLEVELAND TRACTOR COMPANY, Dept. AD, Cleveland, Ohio, U. S. A.

MINERAL HEAVE 50 **Cow Health is Dairy Wealth** COMPOUND Safeguard the health of your herd by building stables that will be clean, sweet and sanitary. Easily done if you build with Natco Hollow Tile. Germs can't hide on the smooth glazed walls. A blanket of dead air in Natco walls keeps the stable warm in winter and cool in summer—prevents damp-CURES Booklet Free ness and mildew. NEGLECT Natco on the Farm Will Ruin \$3 Package means healthier stock, cleaner and better milk-bigger profits and more dairy wealth. Natco Hollow Tile has fire-proofed most of the great "skyscrapers" of our large cities. The same Your Horse naterial will protect your stock, grain and Sold on Its Merits surance charges. Natco buildings s painting and repairs. They cost let than other forms of masonry yet add greatly to the value of your farm. Si Package sufficient for ordinary cases. Postpaid on receipt et price Write for descriptive booklet END TODAY AGENTS Treatly to the value of your lar Yoar building supply dealer will cladly show you samples and practical building plans. He nas, perhaps, just the plan for which you're looking. But write us direct to-lay for new illus-rated "Natco on he Farm" book -1918 Edition MINERAL REAVE BEMEDY CO., 463 Fourth Ave., Pittsburg, Pa. PER AND the Farm" boo -1918 Edition -it's free! peller. large c EDY COMPANY, Tolede, Ohle TIMOTHY SEED \$4.00 per bushel. High purity and germination, first class in every way. 54.50 per bushel, 46 lbs. Bags extra at 25c. each. YOUNG-RANDOLPH SEED CO. Owosso, Mich. National Fire Proofing Company 1116 Fulton Bullding SFactories assure a wide aud economical distribution

Many railroad crossing gates are not operated after 7 P.M. This photograph shows how the 500-foot range of the Conaphore protects your safety. It also shows how the Conaphore keeps the beam within legal limits, and so makes for the safety of others THE CONAPHORE Smooth front surface. Easily cleaned. Does not clog with dust or mud

# Country roads demand long range Safety demands no glare

NOTICE how brightly the Conaphore beam lights up the railroad crossing and the engine in the photograph above. Then see how far beyond the crossing it illuminates the road.

The Conaphore does not diffuse and scatter the light in all directions. Neither does it dump the light directly in front of your car. Instead it shoots a long, broad beam ahead for 500 feet and more.

Notice, also, that where the Conaphore beam strikes the engine, the light is not more than 42 inches above the road. If a motorist were approaching from the other direction, the Conaphore rays could not dazzle or confuse him even to the slightest extent.

#### Conaphore design patented

Conaphores give you the range you need and to which your own safety entitles you. Yet they eliminate all glare and so make for the safety of others.

The Conaphore permits the bulb to

be focused for maximum range. Its efficiency is due to scientific design.

A series of patented corrugations on the inner surface of the Conaphore bends down the beam, while cylinders in the center fan ample light sidewise.

These corrugations also limit the height of the beam to 42 inches. There is no chance of blinding the other fellow, and you are within the requirements of any state or local headlight law.

#### Pierces fog and dust

The Conaphore is made of Noviol Glass patented—invented by Conaphore designers and used in no other headlight device. This unique yellow-tint glass causes the light to pierce fog and dust, without "back-glare."

Blue and violet rays present in all white light are the chief cause of "back-glare," because they are easily diffused by the fog or dust particles. Noviol Glass absorbs these blue and violet rays,

Manufactured by the World's Largest Makers of Technical Glass



but projects all the rest of the light. Thus the Conaphore eliminates "back-glare" and gives you perfect road vision even when the night is thick. The Noviol beam makes the easiest light for your eye to follow.

LA, Hiller

CORNING CONAPHORE

Conaphores are also made in clear glass, but we strongly recommend the Noviol.

#### Help fight the glare evil

On dark country roads the glaring headlight danger is found at its worst. Put Conaphores on your car at once, and do your share to stamp out the glare evil. They give you the long range you want, yet take all glare out of your headlights.

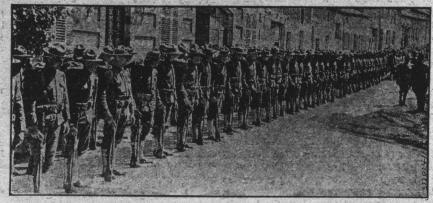
Easy to install. Sizes made to fit all cars. If your dealer has not yet received his supply, write us and we will see that you are promptly supplied.

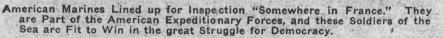
Retail Price List (per pair)	Noviol Glass	Clear Glass
5 to $6\%$ inches inclusive 7 to $8\%$ inches inclusive 85 to 10 inches inclusive 10 <sup>1</sup> / <sub>4</sub> to 11 <sup>1</sup> / <sub>2</sub> inches inclusive	. 3.50	\$1.60 2.50 3.00 4.00
Prices 25 cents more per pair west of Sizes vary by steps of <sup>1</sup> / <sub>8</sub> inch above	Rocky Me	size
CONAPHORE SALES EDWARD A. CASSIDY ( 505 Foster Building	Co., Mg	grs.
CORNING GLASS	S WO	RKS

CORNING GLASS WORKS ALSO MANUFACTURES PYREX TRANSPARENT OVEN DISHES AND PYREX CHEMICAL GLASSWARE



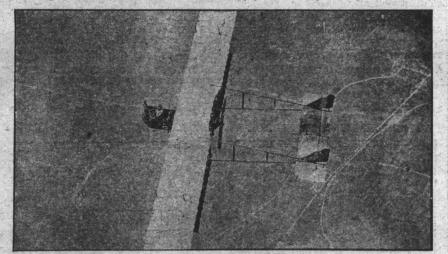
# WORLD EVENTS IN PICTURES







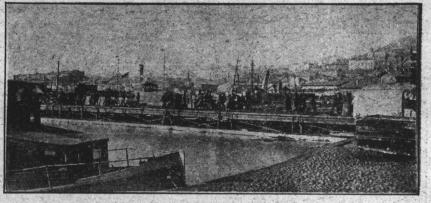
The Officers of a British Balloon Section are Running their Own Poultry Farm Near the Firing Line, where these Turkeys were Hatched and Are Being Raised to Increase the Food Supply.



French Airman Flying Toward Enemy Territory, About 9,000 Feet Above the Battle Lines, on Dangerous Mission. The Enemy will Try to Prevent Him from Bringing the Information he Seeks Back to the French Lines.



"Farm and Fight" is the Slogan of these British Soldiers, Many of Whom Have Seen Service in France. Schools have Been Opened up to Give Instruction in Agriculture, Including Operation of Labor-saving Machinery.



Vladivostok, Important Russian Seaport on the Pacific Ocean, which Played an Important Role in the Russo-Japanese War, now Becomes of International Importance through Possible Japanese Invasion of Siberia.



The Sammies' Meal Time "Over There." A Constant Procession of Ships is Carrying Across Great Quantities of Food, which Uncle Sam Realizes is so Important to Our Men, who Never Have to go Hungry.



This Huge British Tank Has Plowed its Way through the German First Line Defenses and Onward to the Second Line, with the Germans Retreating Rapidly Before it.



any of Whom up to Give Inng Machinery. Odessa, which for Ages has been the Gateway to Russia's Great Wheat Lands, has Recently Fallen into the Hands of the Germans who, Despite the Signing of Peace Terms, Continue to Invade Russian Territory.



BEANS: Seed beans for sale. Beans tested 190% free of Bdisense: 97% germination and hand picked. FRANK J. ANNIS. - Eaton Rapids, Mich.

FRANK J. ANNIS, - Eaton Rapids, Mice. For Sale Tested Seed Corn, Pumpkin Seed, and Cow Peas, State varieties pre-ferred, Givo second cholee. WARE COMPANY, Inc., Owensbore, Kentucky

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# We have final reports from our growers and are prepared to offer Seed/Corn grown by experienced men. These growers make a business of growing corn for seed and had the facilities for drying and preparing the corn for seed. Our Seed Corn has just been tested and all will germinate 70% or better. just been tested and all will germinate 40% or better. We have handled and put out this same Seed Corn for years and it is no experiment with us this season, we have a lways found it the most reliable to be obtained. White Cap Yellow Dent \$8 Improved Learning \$8 Pride of the North '' \$8 Smut Nose Flint \$8 Wisconsin No.12 '' \$8 Longfellow Flint King of the Earliest '' \$8 Red Cob Ensilage Reid's Yellow '' \$8 Learning Fodder \$4 Bags Extra 50c each. All shelled corn, 56 bs, per bu., f. o. b. Ypsilanti. If, on recipt of your order, we cannot ship with-in the next thirty days, we will immediately advise yon.

MARTIN DAWSON COMPANY,

#### Salvage of Sunken Merchant Ships

There are now lying at the bottom they are prepared to salve the cargo, of the sea, with their valuable cargoes, and perhaps the ship, and they offer a great number of merchant ships, tor- to do it. The question of the threepedoed by German submarines. Must mile limit is not likely to arise. they lie there forever or can they be It depends on terms of peace whether refloated, as Germany is reported to it will be possible for German comhave refloated and taken into Antwerp panies to offer to salve the British the North German Lloyd liner "Gneis- ships they have sunk, and upon the enau," which was sunk at the bgein feeling of British underwriters in the ning of the war in the Scheldt? There matter of whether they could consider appears to be very little doubt that them. There is no reason to suppose many of the ships can be floated and that Germany would be better equipcan be salvages. The North Sea is other countries, but some of the Gersufficiently shallow for diving for car- man companies have more steamers goes, but there are a good many ships but a much less amount of machinery. sunk in comparatively shallow water, There are few, if any, salvage divers which could be raised now if there Holland, Sweden and Denmark, and were the men and the plant to do it. doubtless they, too, will want a share There are few, if any salvage divers of the valuable cargoes now strewn ovleft. What salvage labor and machin- er "Davy Jones' locker." ery there was available in the British Isles has been requisitioned by the British Admiralty, and the same holds WHILE BILLY GOES "OVER THE good in other countries as well. These men and plants are doing considerable valuable work in helping the naval authorities than in looking after the com-mercial possibilities of salvage. In this as in other matters nothing can be And the farm grows the bread as in other matters, nothing can be done until after the end of the war. Then there will be possibilities for salvage work on a considerable scale, both in the North Sea, and parts of the English Channel and other parts where At the end of the next headland— the water is fairly shallow. As to the But Billy has dropped the ribbons the water is fairly shallow. As to the but Biny has dropped the first, question of deterioration, the fact is And shouldered a rifle, instead, that neither ships nor cargoes, except And our farmer lad, perishable materials and food stuffs, Has a patriot's heart and head. deteriorate very much in water. The chief damage that a ship suffers is when she is only half-submerged and the engines are left to dry in the wind. Going up and down the long furrows Usually, when a vessel that has been For Billy has dropped the ribbons wrecked is being refloated, a barrel of oil is poured on the surface of the wa-ter inorder to leave a deposit over the That the boy in the trench may be fed, machinery. - Repairs are quickly effected, and sections torn by rock or fected, and sections torn by rock or roses torpedo present no great difficulties in A-bloom in their cheeks, like June, the work of salvage, for they can be completely repaired. Valuable as are the ships themselves that now lie at the bottom of the sea, the cargoes of cotton, rubber, wool, cotton goods, ma-chinery, and other materials are more valuable still. The legal rights of salvaluable still. The legal rights of sal-

that a considerable quantity of cargo ped for the work than those of firms in .

BY DORA H. STOCKMAN.

That the lad may be fed While Billy goes "Over the Top."

The plow idly stands in the furrow The team waits their master's hand, They are nickering softly for dinner

With trembling, work-worn fingers Father grasps the handles again, Going up and down the long furrows

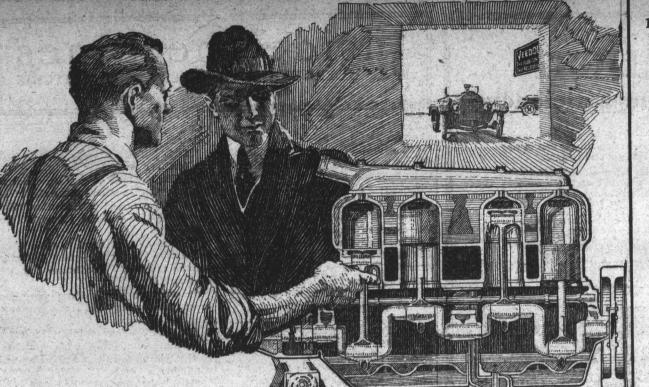
And the farm girls with red summer

vage are those between the persons who are prepared to salve and the owners or underwriters of the vessels. A salvage company, for example, know-ing that a vessel with a cargo of wool or cotton, has been sunk at a certain spot, will notify the underwriters that



#### American Front, Verdun to Colmar.

The much heralded German drive is now taking place along the British front, lying northwest of Verdun. It is the evident intention of the Germans to break through the Allied lines with Paris as an objective. The American sector has not yet been actively engaged in the gigantic battle; however, it is reported that American reinforcements are aiding the French and British lines. It is apparently the intention of the Allies to allow the enemy to ex-haust themselves before launching a return offensive. When this time comes watch our boys and follow their advance, which will be shown on this map from week to week.



#### 19 places where sediment damages your engine

17 - 433

- 1. Cylinder walls
- 2. Pistons
- 3. Piston rings
- 4. Wristpins
- 5. Wristpin bearings
- 6. Crankshaft main bearings
- 7. Crankshaft
- 8. Connecting-rod bearings
- 9. Connecting-rods
- 10. Valves
- 11. Valve seats
- 12. Valve cams
- 13. Camshaft bearings
- 14. Camshaft
- 15. Timing gears
- 16. Ignition driveshaft bearings
- 17. Generator shaft bearings
- 18. Oil circulating pump 19. Spark plugs
- 9 places where sediment damages your engine

THEN your engine losses power, knocks, bucks, and overheats, nine times out of ten it is sediment in the oil that is to blame. Just look at the long list of vital parts that will quickly show serious wear when sediment is present in any considerable amount.

Ordinary oil cannot resist the intense heat of the engine-200° to 1000°F. It breaks down quickly. The resulting sediment crowds out the oil with true lubricating qualities from points where it is needed most. Moving metal surfaces, which should always be separated by a protecting film of lubricant, are thus thrown into direct contact.

#### Why sediment causes wear

A strong magnifying glass reveals millions of microscopic teeth covering the apparently smooth surface of a bearing or other working part.

When the cushioning oil film between these surfaces is destroyed or excluded

DIL

after use ent formed of running

DIL

EDIMENT

Ordinary oil after use

Showing sedim after 500 miles

by sediment these tiny metal teeth grind together, thus causing friction and wear.

When this happens in any important part of an engine, costly replacements soon become necessary. Damagedue to sediment in ordinary oil can never be repaired.

That is why you cannot afford to buy

A. Ludlow Clayden, Engi-neering Editor of Automotive Industries and one of the most promfnent engineers in the automobile field says: "In the past, too little atten-tion has been paid to lubri-cation. Oil needs to be chos-en for an engine almost more carefully than food for a child."



P. M. Heldt, recognized au-thority on internal combus-tion engines, and author of "The Gasoline Automobile," declares:

of using it is appalling, because of its injurious effects on your engine.

#### How the problem was solved

As a result of exhaustive research and comprehensive practical tests the formation of diment in dangerous quantities has been successfully overcome.

Today over a million motorists avoid the sediment menace, with its accompanying troubles and repair expense, and keep their cars running like new, at reduced operating cost, by using Veedol-the lubricant that resists heat.

How Veedol reduces sediment 86% is made plain by the two bottles, showing the famous Sediment Test, at the left of the page.

When figured by miles of service, and not by cost per gallon, Veedol proves much more economical than ordinary oils.

The average motor oil acts like water in a kettle. When water is subjected to intense heat it evaporates as steam. Under the terrific heat of the engine ordinary oil evaporates very rapidly through the oilfiller in the form of vapor.

Veedol not only resists destruction by heat and the consequent formation of sediment, but also reduces evaporation in your engine to a minimum. You will get from 25% to 50% more mileage per gallon with Veedol for this reason.

#### **Buy Veedol Today**

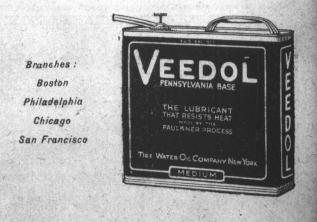
Your dealer has Veedol in stock, or can get it for you. If he does not, write us for the name of the nearest dealer who can supply you.

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The most complete book ever published on automobile lubrication, written by a prominent engineer, and used as text book by many schools and colleges. Describes and illustrates all types of lubrication systems; tells how to keep your car running like new at minimum expense. Also contains Veedol Lubrication Chart, showing correct grade of Veedol for every car, winter or summer. Send 10c for a copy. It may save you many dollars.

#### TIDE WATER OIL COMPANY VEEDOL DEPARTMENT

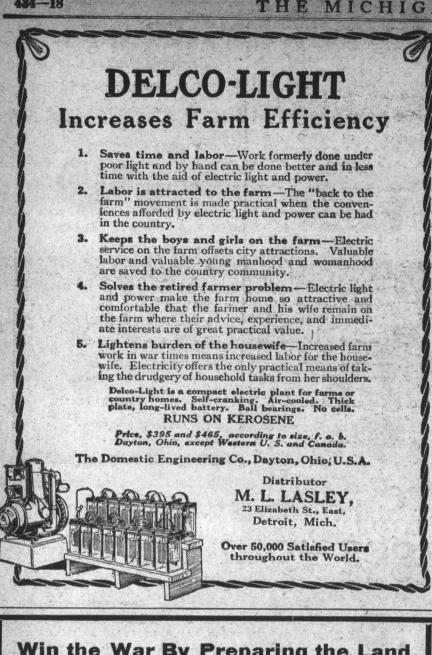
1626 Bowling Green Building, New York



acciners: "The proper selection of oil for the hubrication of an au-tomobile engine is a very im-portant matter. The grade of lubricant used affects not only the efficiency of the en-gine but also its life."

Chas. A. Duryea, consulting engineer and a pioneer in auto-mobile construction states: "Buying inferior oil is the poorest economy a motorist can practice. Inferior oils must be used in greater quantities and, even then, they increase friction. loss of power, fuel consumption, heat and repair bills. "Good oil costs a little more per galton, but far iess per mile."

ordinary oil at any price. The cost



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

Work in Joint Effort the Soil of the U. S. and Canada---Co-operative Farming in Man Power Necessary to Win the Battle for Liberty The Food Controllers of United States and Canada are asking for greater food production. Scarcely 100,000,000 bushels of wheat can be sent to the allies overseas before the crop harvest. Upon the efforts of the United States and Canada rest the burden of supply.

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

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

Canada's Wheat Production last Year was 225,000,000 Bushels; the demand from Canada alone, for 1918, is 400,000,000 Bushels. To secure this she must have assistance. She has the land but needs the men. The Government of the United States wants every man who can effec-tively help to do farm work this year. It wants the land in the United States developed first of course; but it also wants to help Canada. When-ever we find a man we can spare to Canada's fields after ours are sup-plied, we want to direct him there. Apply to our Employment Service, and we will tell where you can best serve the combined interests.

Western Canada's help will be required not later than April 5 th. Wages to competent help, \$50 a month and up, board and lodging. Those who respond to this appeal will get a warm welcome, good wages, good board, and find comfortable homes. They will get a rate of one cent a mile from Canadian boundary points to destination and return. For particulars as to routes and places where employment may be had, apply to



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

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Contract makers for canneries, sugar and pickle factories, insurance men or anyone who does daily business with farmers here is a proposition you want to get next to. Good profit and annual business, easy seller.

Product long and well established in Michigan. Your farmer friends ought to have it--you can sell it to them. For particulars regarding this extra money proposition write

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"You have seen me before, Mrs. moment when you were-in peril, my Sherman?" "I am sure of it," the lady announc-

ed, with decision. The other diners me further. were listening now.

was smiling polite attention. "Why, at the Winter Garden, in Berlin—a month ago!" Mrs. Sherman was night—" hugely satisfied with her identification.

She appealed to her husband for con- me have your card-your Wilhelm-firmation. "Remember, father, that strasse number," Woodhouse demandgentleman I mistook for Albert Downs, ed hurriedly. back home, that night we saw thater-wicked performance?"

"Can't say I do," Sherman answered insinuatingly. tolerantly.

"Woodhouse, still smiling, addressed Mrs. Sherman:

"Frightfully sorry to disappoint you, a number. Mrs. Sherman, but I was not in Berlin a month ago. I came here from Egypt, where I had been for several years." catch her breath.

"See, mother, there you go on your old hobby of recognizin' folks," Sherman chided. Then, to the others: "Why, she's seen all Kewanee since she came here to Europe. Even got a glimpse of the Methodist minister at Monte Carlo."

"I have never been in Berlin in my life, Mrs. Sherman," Woodhouse was adding. "So, of course-" "Well, I suppose I am wrong," the

lady admitted. "But still I could almost swear to it."

The governor, who had kept a cold eye on his subordinate during this col. menace in the Indian's tone. loquy, now caught Woodhouse's glance. The captain smiled frankly.

tion, General, and you'll have me in side. She saw me in France, when the cells as a spy, I dare say," he re- Captain Woodhouse was supposed to marked.

"Quite likely," Crandall answered at this juncture and whispered some- I did not un-derstand." thing. The latter spoke to Woodhouse:

"You're wanted on the telephone in the library, Captain. Very important, Jaimihr whispered in exultation. "Not so the importunate person at the other until today did they admit you to the end of the wire informs the maid."

Woodhouse looked his confusion. "Probably that silly ass at the quay nation to the door of Room D." who lost a bag of mine when I landed," he apologized as he rose. "If you'll

pardon me-" Woodhouse passed up the stairs and into the library. He was surprised to ephone, his hand just in the act of setting the received back on the hook. The Indian stepped swiftly to the double doors and shut them behind the Woodhouse put in eagerly. captain.

"A thousand pardons, Cap-tain"-he spoke hurriedly-"the cap-tain will at the Hotel Splendide with-our stand near the telephone. They may friends there. I shall come to you come from the dining-room at any min- there, give you the combination, and ute now."

"What is all this?" Woodhouse began. -"I was called on the telephone." "A call I had inspired, Cap-tain. It sternly warned. was necessary to see you-at once and

alone." With the general "Tactless! sus pecting me-you heard what that wom- yes, my General; no, my General; an from America said at the table- very good, my General." The man's she has eyes in her head!"

the Indian replied. "And tonight we and ablaze in the harbor-the water must act. The fleet sails at noon to red, like blood, with the flames. Then, morrow."

"We?" Woodhouse was on his guard ends." at once. "What do you mean by 'we?"

burned a roll of plans-"

Cap-tain."

"Burned them, yes-perhaps to trap

The Indian made a gesture of impa-Indeed! And where?" Woodhouse tience. "Oh, excellent discretion!" he cried in suppressed exasperation. "But we waste time that is precious. To-

"Before another word is spoken, let

"I carry no card. I am more discreet than-some," the other answered

"No card? Your number, then?" Jaimihr Khan brought his lips close to the white man's ear and whispered

"Is not that correct?" he asked.

Woodhouse nodded curtly. "And now that we are properly in-Woodhouse heard Jane at his elbow troduced," Jaimihr began, with a sardonic smile, "may I venture a criticism? Your pardon, Cap-tain; but our critics, they help us to perf-fection. Since when have men who come from the Wilhelmstrasse allowed themselves to make love in drawing-rooms?" "You mean-"

"You and the young woman from America-when I found you together here yesterday-"

"That is my affair," was Woodhouse's hot response.

"The affair on which we work-this night-that is my affair, be veree sure of that!" There was something of

Woodhouse bowed to his demand for an explanation. "That young woman, "Another such unexpected identifica- as it happens, must be kept on our be in Egypt." "Ah, so?" Jaimihr inclined his head

shortly, and took up his fork again. A with a slight gesture craving pardon. maid stepped to Lady Crandall's chair "For that reason you make a conquest.

"No matter. The fleet sails at noon." "And our moment is here-tonight,"

tower, Cap-tain. How is it there?" 'A simple matter-with the combi-

With a single stride the Indian was

over before the door of the wall safe. He pointed.

"The combination of the inner door -it is in a special compartment of that find Jaimihr Khan standing by the tel- safe, protected by many wires. Before dawn I cut the wires-and come to you with the combination."

"At whatever hour is best for you,"

"Let us say three-thirty," Jaimihr answered. "You will be waiting for me you shall go through the lines to the signal tower."

"There must be no slip," Woodhouse

"Not on my part, Cap-tain-count on that. For five years I have been waiting-waiting. Five years a servantvoice vibrated with hate. "Tomorrow, "I think he still trusts you, Cap-tain," near dawn-the English fleet shattered by the breath of Allah, my service

Voices sounded in the hallway out-Jaimihr Khan smiled at the evasion. side the double doors. Jaimihr Khan, "Yesterday in this room, Cap-tain, I a finger to his lips, nodded as he whisprede: "Three-thirty, at the Splen-"Which I had good reason to wish dide." He faded like a white wraith saved," Woodhouse caught him up. through the door to General Crandall's "No matter; I burned them-at a room as the double doors opened and

19 - 435

the masculine faction of the dinner a woman-a very clever and pretty party entered. Woodhouse rose from woman, I may add, to make the story a stooping position at the telephone more interesting." and faced them. To the general, whose sharp scrutiny stabbed like thin knives follow, is an accomplice of hers, I take he made plausible explanation. The it, General!" Woodhouse put the quesbeggar who lost his bag wanted a com- tion with easy indifference. He was plete identification of it-had run it stirring his coffee abstractedly. down at Algeciras.

"I understand," Crandall grunted. When the cigars were lit, General Crandall excused himself for a minute, sat at his desk, and hurriedly scratched a note. Summoning Jaimihr, he ordered that the note be despatched by orderly direct to Major Bishop and given to no other hands. Woodhouse, who overheard his superior officer's command, was filled with vague apprehension. What Mrs. Sherman had said at table-this hurried note to Bishop; give to the affair-Crandall's suspi- had clustered around the windows, conthree-thirty-at the Hotel Splendide-

But when Crandall came back to join. the circle of smokers, he was all geniality. The women came in by way of Jane Gerson's room; they had been taking a farewell peek at her dazzling stock of gowns, they said, before they were packed for the steamer.

"There was one or two I just had to see again," Mrs. Sherman explained for the benefit of all, "before I said good-bye to them. One of them, by Madam Paquin, father, I'm going to copy when we get home. I'll be the first to introduce a Paquin into little Kewanee.'

"Well, don't get into trouble with the minister, mother," Henry J. warned. "Some of the French gowns I've seen on this trip certainly would stir things up in Kewanee."

Jaimihr served the coffee. Woodhouse tried to maneuver Jane into a tete-a-tete in an angle of the massive fireplace, but she outgeneraled him, lady," he chirped. and the observant Mrs. Sherman cornered him inexorably.

"Tell me, Captain Woodhouse," she began, in her friendly tones, "you said a while ago the general might mistake you for a spy. Don't you have a great deal of trouble with spies in your army in war time? Everybody took us for spies in Germany, and in France they thought poor Henry was carrying bombs to blow up the Eiffel Tower."

"Perhaps I can answer that question better than Captain Woodhouse," the general put in, rising and striding over to where Mrs. Sherman kept the captain prisoner. "Captain Woodhouse, you see, would not be so likely to come in touch with those troublesome. persons as one in command of a post, like myself." The most delicate irony barbed this speech, lost to all but the one for whom it was meant.

"Oh, I know I'm going to hear something very exciting," Mrs. Sherman chortled. "Kitty, you'd better hush up Willy Kimball for a while and come over here. You can improve your mind better listening to the general."

Crandall soon was the center of a group. He began, with sober directness.

"Well, in the matter of spies in war the fact of their resemblance to the words. The hastily despatched notespies busy this minute."

shadow with a swift movement of pro- carried a number from the Wilhelmtectiveness. Woodhouse, who balanced strasse felt the walls of the library a dainty Satsuma coffee cup on his slowly closing in to crush him; he knee, kept his eyes on his superior's could almost hear the whisper and face with a mildly interested air.

bly two spies-should be arrested be- lets into his heart! fore the night is over. And the point "A very pleasant dinner-Lady Cranabout this that will interest you ladies dall's," Woodhouse began, eager to is that one of these-the one whose or- lighten the tenseness of the situation. der for arrest I have already given is

"And the other, whose arrest may

"Not only the accomplice, but the brains for both, Captain. A deucedly clever person, I'm frank to admit."

'Oh, people! Come and see the flagship, signaling to the rest of the fleet with its funny green and red lights!" It was Jane who had suddenly risen and stood by the curtains screening the balcony windows. "They look like little flowers opening and shutting."

The girl's diversion was sufficient to take interest momentarily from Genthere was but one interpretation to eral Crandall's revelation. When all cions were all alive again. Yet at versation skipped to the fleet, its power, and the men who were ready to do battle behind its hundreds of guns. Mrs. Sherman was disappointed that the ships did not send up rockets. She had read somewhere that ships sent up rockets, and she didn't see why these should prove the exception. Interruption came from Jaimihr Khan, who bore a message for Consul Rey nolds. The fussy little man ripped open the envelope with an air of importance.

> 'Ah, folks, listen! Here we have the latest wireless from the Saxonia. Will anchor about two-sail six. Have all passengers aboard by five-thirty." Excited gurgles from the refugees. 'That means," Reynolds wound up, with a flourish, "everybody at the docks by five o'clock. Be there myself, to see you off. Must go nowlot of fuss and feathers getting everybody fixed." He paused before Jane. "You're going home at last, young

"That depends entirely upon Miss

Gerson herself." It was the general who spoke quietly but emphatically. Reynolds looked at him, surprised.

"Why, I understood it was all arranged-"I repeat, it depends entirely on Miss

Gerson." Woodhouse caught the look of fear

in Jane's eyes, and, as they fell for the instant on his, something elseappeal. He turned his head quickly. Lady Crandall saved the situation.

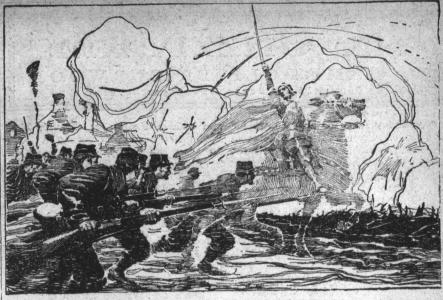
"Oh, that's some more of George's eternal red tape. I'll snip it when the time comes."

The consul's departure was the signal for the others. They all crowded around Lady Crandall and her husband with voluble praise for the American dinner and thanks for the courtesy they had found on the Rock. Woodhouse, after a last despairing effort to have a word of farewell with Jane, which she denied, turned to make his adieu to his host and hostess.

"No hurry, Captain," Crandall caught him up. "Expect Major Bishop in every minute-small matter of official detail. You and he can go down the Rock together when he leaves.'

Woodhouse's mind leaped to the time, Mrs. Sherman, one is struck by meaning behind his superior's careless plague-you never can tell when they that was to summon Bishop to Governare going to get you or whence they ment House; Crandall's speech about came. Now here on the Rock I have the two spies and the arrest of one of reason to believe we have one or more them-Louisa, he meant-and now this summary order that he wait the arrival Jane Gerson, sitting where the light of Bishop-would the second arrest smote her face, drew back into the be here in this room? The man who mutter of the inexorable machine mov-"In fact," Crandall continued evenly, ing them closer-closer. He alone with "I shouldn't be surprised if one, possi- the man whose word could send bul-

(Continued next week).



# The Miracle of the Marne

The battle of the Marne halted the rush of the Germans towards Paris. It aroused the French to superhuman bravery. They fought as if led by the spirit of the Maid of Orleans herself.

The Marne was a demonstration of the power of patriotism with its back against the wall. The same sacrifice of self, the same love of country and unity of purpose that inspired the French people must inspire us, and we must win the war.

We are sending our best manhood to fight for us. They must be armed, fed and clothed, cared for through sickness and wounds. This is the work of every individual as well as the Government.

It is the proud duty of the Bell System to coordinate its purpose and equipment to the other factors in our national industrial fabric, so that the manufacture and movement of supplies to our. boys abroad be given right of way.





slopes an' the other to the bottom, an' we'll travel slow. Get the idee?

to drive him around to us. We'll let but he made no sound. Gradually he him do the open hunting and we'll ceased even to bare his teeth. skulk. The bear can't get past us both without giving one of us shooting."

unwilling to nurse for a few days."

Langdon's mouth when a sudden rattle at the foot of the tree and returned to of hobble-chains and the startled snort where Bruce was smoking. of a grazing horse out in the meadow brought them both to their feet.

'Utim!" whispered Metoosin, his dark face aglow in the firelight. "You're right-the dogs," said Bruce

and he whistled softly. slunk in, half on their bellies, and as the timber. The drone of the valley him joyfully. they prostrated themselves at the hunt- and the mountains filled the peaceful

had gone out that morning. There boulder rolling down the side of a don. The latter, after he had dressed Jimmy, that didn't like to see things were deep hollows in their sides; their mountain. wiry crests were flat; they were hard run, and they knew that they were erything was still and asleep but him- he showed his pleasure by calling the chance? Won't they crowd like buzbeaten. Their aggressiveness was all self, and very cautiously he began to others' attention to what had hap- zards round a dead horse to get a look gone, and they had the appearance of back down the tree. He reached the pened. whipped curs.

was limping, and dragging a torn fore- part of it slopping up over his face. stroking touch of Langdon's hand. afraid of, we humans'd be killing one leg. The head and throat of one of Involuntarily he shot out his tongue Then Langdon brought forth another another for the fun of it! We would. the others was red with blood. They and licked his chops, and the sweet, can from a cowhide pannier and open- It's born in us to want to kill." all lay flat on their bellies, as if ex- sticky stuff that it gathered filled him ed it directly under Muskwa, so that "And we take it all out on brute crepecting condemnation.

said; "we are beaten, and this is all of licked himself. And then, as if the the basin up to Muskwa, so close that selves if a generation or two of us are us that are left."

at them. They listened-waited. No eyes fixed themselves covetously upon keep his tongue in his mouth. Inside kill our neighbors legally whenever we other came. And then they looked at the tin basin. He approached it with of five minutes he was eating from the have the inclination, it's possible the each other.

"Two more of them gone," said Langdon.

and canvases and pulled out the dog- if it should make a jump for him. At leashes. Up in his tree Muskwa was last his nose touched the thick, lus- affirmed Bruce a little later, when they out of his crotch and was dangling like all atremble. Within a few yards of cious feast in the basin, and he did not were eating breakfast. "He'll be fol- the victim at the end of a hangman's him he saw again the white-fanged raise his head until the last drop of it lowing you around like a puppy in a horde that had chased Thor and had was gone. driven him into the rock-crevice. Of the men he was no longer greatly afraid. They had attempted him no harm, and he had ceased to quake and snarl when one of them passed near. But the dogs were monsters. They had given battle to Thor. They must have beaten him, for Thor had run away.

The tree to which Muskwa was fastling, and he lay in the saddle of a den spring that tore the leash from the ruins antedate those of Egypt. beating. Then he led him away.

ever. away at the end of ropes.

and did not snap at it. Then a strange rooms rather small, even in the houses same length.

"We'll lay here for a few days an' and sudden thrill shot through him. not move. Then we'll start Metoosin While his head was turned a little through the valley over there with the Langdon had boldly put his hand on like a mirror in the starlight. dogs, if there's any left, and we'll start his furry back. And in that touch there south through this valley at the same was not hurt! His mother had never time. One of us will keep to the put her paw on him as gently as that! Half a dozen times in the next ten

minutes Langdon touched him. For

Langdon left him then, and in a few moments he returned with a chunk of came tired he rested, and when he re makes you love them. I'm not going to "It sounds good," agreed Langdon. raw caribou meat. He held this close "And I've got a lame knee that I'm not to Muskwa's nose. Muskwa could smell fresh place in the rope. By midnight we get this dog-killer we're after. I it, but he backed away from it, and at his gums were sore, and he gave up almost believe he will be my last Scarcely were the words out of last Langdon placed it beside the basin his exertions entirely.

out of my hand," he said.

foot of it, loosed his hold, and half fell Bruce turned to a pile of panniers prepared for a quick spring backward snarled. 

The condensed milk was the one bigwa. It was the missing link that con- that you were telling me about Jamenected certain things in his lively little son's bears, Bruce?" mind. He knew that the same hand that had touched him so gently had country," said Bruce. also placed this strange and wonderful mit, I guess you'd call him. Came out feast at the foot of his tree, and that of the mountains only twice a year to same hand had also offered him meat. He did not eat the meat, but he licked For years he had one as big as this the interior of the basin until it shone fellow we're chasing. He got 'im when

filled with a desire to escape, though son wherever he went like a dog. Even his efforts were not as frantic and un- went on his hunts with him, an' they reasoning as they had been. Experi- slept beside the same campfire. Jame-"That grizzly won't leave his coun- the first three or four times Muskwa to jump and tug at the end of his one." ence had taught him that it was futile son loved bears, an' he'd never kill try, an' Metoosin is pretty near bound bared his two rows of shining teeth, leash, and now he fell to chewing at the rope. Had he gnawed in one place he would probably have won freedom Bruce. I don't know just why, but

before morning, but when his paws be- there's something about bears that sumed his work it was usually at a shoot many more-perhaps none after

climb up it at the first sign of danger, there isn't a province in the Dominion "Inside of two days he'll be eating the cub waited for morning. Not a or a state south of the Border that has wink did he sleep. Even though he a 'closed season' for bear! It's an out-It was not long before the camp be- was less afraid than he had been, he rage, Bruce. They're classed with vercame very quiet. Langdon, Bruce, and was terribly lonesome. He missed min, and can be exterminated at all the Indian rolled themselves in their Thor, and he whimpered so softly that seasons. They can even be dug out of blankets and were soon asleep. The the men a few yards away could not their dens with their young-and-so They heard a movement in the brush fire burned lower and lower. Soon have heard him had they been awake. help me Heaven!-I've helped to dig near them, and a moment later two of there was only a single smouldering If Pipoonaskoos had come into the them out! We're beasts, Bruce. Somethe dogs came into the firelight. They log. An owl hooted a little deeper in camp then he would have welcomed times I almost think it's a crime for a

Morning came, and Metoosin was the killing." ers' feet a third and fourth joined them. night. The stars grew brighter. Far first out of his blankets. He built a They were not like the pack that away Muskwa heard the rumbling of a fire, and this roused Bruce and Lang- unmoved. "Did you ever know a man, himself, paid a visit to Muskwa, and die? Wouldn't every mother's soul of There was nothing to fear now. Ev- when he found the basin licked clean 'em go to a hanging if they had the

A fifth came in out of the night. He into the basin of condensed milk, a in the tree, and again he tolerated the Jimmie, if there weren't no law to be with a sudden and entirely unexpected he could see the creamy white fluid as ation," mused Langdon. "After all, we "We have failed," their attitude pleasure. For a quarter of an hour he it was turned into the basin. He held can't have much sympathy for oursecret of this delightful ambrosia had the milk touched the cub's nose, and killed in war, can we? Mebby you're Mutely Bruce and Langdon stared just dawned upon him, his bright little for the life of him Muskwa could not right, Bruce. Inasmuch as we can't commendable strategy and caution, basin in Langdon's hand! But when Chief Arbiter of things sends us a war circling first on one side of it and then Bruce came up to watch the proceed- now and then to relieve us temporarily on the other, every muscle in his body ings the cub bared all his teeth and of our blood-thirstiness. Hello, what

"Bears make better pets than dogs," few days, Jimmy."

# Builders of Long Ago

ened was not much more than a sap- rially in their ideas on the subject. ished with pointed arches. The prevailing belief, however, is that In only a fwe places can any idea be can of their griddle-cake syrup and by crotch five feet from the ground when this civilization was in full swng as had of what the interior decorations noon he had the cub following him Metoosin led one of the dogs past him. late as the beginning of the Christian were like, as the coating over the about the tree and straining to reach The Airedale saw him and made a sud- era. Other scientists assert that the rough stones of the walls has benerally the dish which he held temptingly just

peninsula are monuments to a civiliza- they are called. Most of these rooms range to the westward, and Langdon tion that flourished thousands of years are now inhabited by bats and are not was left to doctor a knee which he had ago. Just how many thousands nobody at all pleasant places. There are no battered against a rock the previous knows, and scientists differ very mate- flat ceilings to be found. All are fin- day. He spent most of his time in

gone. Where it still remains it can be out of reach. Then he would sit down, Indian's hand. His leap carried him Yucatan may well be called "the Am- seen that frescoing and mural painting and Muskwa would climb half over his almost up to Muskwa. He was about erican Egypt." The ruins of one hun- were the rule. From these paintings, lap to reach the syrup. to make another spring when Langdon dred and seventy-two cities, big and as well as from the carvings, has been to approach within six inches of him, prove to be enormously thick and the second and third fingers were of the reach the dish of syrup,

The condensed milk was the one big- "I'm getting fond of the little cuss gest factor in the civilizing of Musk- already," replied Langdon. "What was

"Jameson lived up in the Kootenay " Reg'lar herget grub. He made pets of grizzlies. a cub, an' when I saw him he weighed In spite of the milk, he was still a thousand pounds an' followed Jame-

#### After a moment Langdon said:

"And I'm beginning to love them, bear." Suddenly he clenched his hands, Humped close to the tree, ready to and added angrily: "And to think man to carry a gun. And yet-I go on

"It's in our blood," laughed Bruce, at a man crushed to a pulp under a Muskwa had climbed to his crotch rock or a locomotive engine? Why,

in thunder is the cub up to now?"

Muskwa had fallen the wrong way rope. Langdon ran to him, caught him boldly in his bare hands, lifted him up over the limb and placed him on the ground. Muskwa did not snap at him or even growl.

Bruce and Metoosin were away from Scattered all over the Yucantan of the governors or kings, or whatever camp all that day, spying over the company with Muskwa. He opened a

At his present age Muskwa's affecrushed forward with a fierce cry, little, have been discovered, and not a obtained the only knowledge of the tion and confidence were easily won. caught the dog by his collar, and with quarter of the territory has been ex- costumes and customs of the people of A baby black bear is very much like a the end of the leash gave him a sound plored, that is, carefully explored-for that day. The builder, or designer, of human baby: he likes milk, he loves the tropical verdure makes the finding each temple or palace put his mark on sweet things, and he wants to cuddle This act puzzled Muskwa more than of them very difficult. One might pass it in an odd way. It is the imprint of up close to any living thing that is good The man had saved him. He within a hundred feet of a wonderful his hand in red dye up on a stone near to him. He is the most lovable creahad beaten the monster with the red old temple or pyramid a hundred times the main entrance. This hand mark ture on four legs-round and soft and mouth and the white fangs, and all of and not discover it, so effectively does is always found under the final coat of fluffy, and so funny that he is sure to those monsters were now being taken the jungle screen these crumbling plaster which originally covered the keep everyone about him in good humonuments of the distant past and stones. As the plaster has now scaled mor. More than once that day Lang-When Langdon returned he stopped shield them from the prying eyes of off the hand prints can be seen. A re- don laughed until the tears came, and close to Muskwa's tree and talked to this inquisitive and presumptuous age. markable thing shown by these old especially when Muskwa made deterhim. Muskwa allowed Langdon's hand The walls of the uncovered buildings hand prints is that in each case the mined efforts to climb up his leg to

#### MARCH 30, 1918.

# Michigan Farmers-Attention!

OUR Country called your fathers, the world calls you!

The pages of American history are illumined by the heroic sacrifices of the American farmer.

You have always responded in a magnificent manner in peace times and in war times. The preservation of the Union was made possi-

ble by the tremendously energetic response of your forefathers to the call of Abraham Lincoln in '61. Your ancestors blazed the trail through the wil-

derness and steadily advanced civilization from the Atlantic to the Pacific.

"Pioneers" they called them!

They endured hardships and privations, transformed the wilderness into fields of productivity.

They laid the foundation upon which is built America's greatness, her riches and resources. They knew not the taint of disloyalty nor traitorism; they whole-heartedly and unselfishly answered their country's call. They enriched us all by their progressiveness.

Heroes they were! Super-men!

God Bless Them! They did their work nobly and well. Their contribution to mankind has probably not been appreciated enough.

Their heritage is yours and we believe you are worthy of it.

Their responsibilities have been transferred to your shoulders, and, thank God, you are strong enough to bear them.

Your Country called your fathers; the world calls you!

No call was ever more urgent nor any cause more worthy of your heartiest response.

Heartrending pleadings of starving mothers and the pitiable cries of famished babies of ravaged Belgium and desecrated France are heard clear across the Atlantic.

The cry for bread is on the lips of downtrodden Poland and half-starved Finland.

Thousands have died and thousands more will perish in Servia, Armenia, and even Russia for want of bread.

Men! do you realize what it means to die for want of-bread?

Can you imagine how it feels to slowly starve to death; to have your bones almost force their way through your skin; to become so weak that you can neither lift a finger nor speak?

Can you comprehend a mother's grief because of

her inability to secure nourishment for her starving children, whose pleadings are ever in her ears, whose emaciated faces are robbing her of reason? The World's cry is for bread and it is up to the American farmer to provide the wheat.

It is a tremendous task but you have never failed to live up to your responsibilities and you are not going to fall down now in this emergency. You must not; you shall not fail!

Hundreds of thousands, yes, even millions of American soldiers' lives in France, many of them your own boys, will be more endangered by lack of proper food than by German bullets, unless a greater production of wheat is obtained immediately.

Stocks of wheat in this country are the lowest proportionately they have ever been.

A crop failure in America this year, or an under-production, will bring the people of the United States face to face with starvation within eighteen months.

America must have more wheat and to have it you must produce it.

This is your task in helping win the War. It is your obligation to America, your duty to mankind.

# Every Additional Bushel of Wheat You Can Harvest This Summer Means One More Life Saved

VERY bushel of wheat wasted or fed to stock means one more life lost.

That is why your country's call is so urgent and why your responsibilities are so tremendous.

You did the best you could last fall but the season was against you. More wheat would have been sown had the weather been more favorable. You are to be congratulated upon having accomplished as much as you did under the circumstances.

But not enough wheat was sown in Michigan last fall and we must have immediate relief.

The only immediate remedy is to sow spring wheat, consequently spring wheat must be sown wherever conditions will permit it.

Possibly you have some bean ground or corn ground where you would have sown wheat last fall but could not. Sow it to spring wheat now.

Besides there are in Michigan approximately one hundred and fifty thousand farms where not enough wheat is produced to provide the farmer's bread. If five acres of spring wheat can be sown on these farms this spring, with an average yield, more than ten million bushels of additional wheat would be produced.

Of course, it is not to be expected that this additional amount of wheat will be raised in Michigan this spring on the spring seeding, but if five million bushels additonal are raised a great deal will have been accomplished, for this wheat will be av ilable this fall, while next fall's seeding would not be until nearly a year later. A delay might cause a catastrophe.

You are guaranteed a price on the basis of \$2.20 per bushel. The amount of wheat produced will not affect this price. You are certain to get around this figure on this crop whether the War ends or not.

# Suggestions from Experienced Michigan Growers

O not wait for spring plowing. Disc the ground well. Set the disc so as not to leave any ridges. Sow broadcast one and a half to two bushels of spring wheat to the acre, depending upon its germinating test. Then drag well. Cover with a top-dressing of about four loads of barnyard manure to the acre.

Early sowing is essential. The best time is when the frost has gone out of the ground to the extent of about three or four inches. Some soils are harder to handle than others, so necessarily some variation must prevail.

Spring wheat is being successfully grown in sections of Monroe, Alpena, Shiawassee, Charlevolx and Emmett counties. In fact, a Kent county farmer produced a splendid crop of spring wheat last year, securing a yield of twenty-one bushels to the acre of excellent quality.

Marquis and Blue Ribbon varieties of spring wheat are recommended for Michigan. Suggest you place your order immediately through your local mill or dealer.

Choice Marguis spring wheat can be obtained from the following:

Lewellyn Bean Company, Grand Rapids, Mich. Hannah & Lay Company, Traverse City, Mich. Argo Milling Company, Charlevoix, Mich. Hankey Milling Company, Petoskey, Mich. Ithaca Farmers' Elevator Company, Ithaca, Mich. Michigan Bean Company, Vestaburg, Mich. R. J. Tower Milling Company, Greenville, Mich. Albert Dickinson Company, Chicago, Illinois.

Choice No. 1 Northern spring wheat can be obtained from the following:

Valley City Milling Company, Grand Rapids, Mich. Voigt Milling Company, Grand Rapids, Mich.

Watson-Higgins Milling Company, Grand Rapids, Mich.

Christian Breisch, Lansing, Mich.

Michigan Farmers! conditions are extremely serious. It is up to you to see that Michigan comes across with her proportionate increase in production of wheat this year.

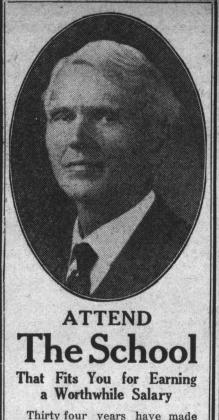
This is a tremendous task but you are equal to it. In times past America has been fortunate in having the American farmer to depend upon. Today the World is favored by having such a substantial backing.

The American Farmer will make good in this crisis as he has in every other.

Men! For Humanity's Sake, for Your Country's Sake, for Our Soldier's Sake, for Your Own Sake, Sow Every Available Acre of Wheat You Possibly Can This Spring.

Advertisement

21-437



438-22

Thirty four years have made the Ferris Institute the poor boy's the Ferris Institute the poor boy's salvation. The scarcity of teach-ers, chemists, clerical workers, bookkeepers, bankers, stenogra-phers, typists, telegraphers, civil service candidates is appalling. The World War has brought about this condition. Who will answer the call? Putting offjuntil tomor-row will not save the country. American women must respond. American women must respond. Woman's position in the world has been revolutionized.

You can get ready at the Fer-ris Institute. The Spring Term Begins March 25. The First Sum-mer term Begins May 20. The Second Summer term Begins July 1. No entrance examina-tions. Everybody is welcome. Self-boarding cuts down expens-es one-half.

Send for Copy of "WHAT SCHOOL"

THE FERRIS INSTITUTE, Big Rapids, Mich. WOODBRIDGE N. FERRIS President





#### HIGH SCHOOL AGRICULTURAL CLASS SELECT SEEDS.

Dear Sirs:-Our high school agricul- once a day. ture class, of which I am a member, tion of value and feel that all agricul- better. ture classes should correlate it with the regular course. Our class has tried If you want me to I will send it later. F. D. No. 1, Hartland, Minnesota. Mr. to keep in line with all food conservation projects. Last fall we selected and stored one hundred and ten bushels of seed corn direct from the field. MICHIGAN BOY WINS IN NORTH Just now we are testing seed corn for the farmers in this locality and find a great deal that will not grow. We are arranging to treat a large quantity of out forcibly, especially to the younger men, R. F. D. No. 2, Cameron, Wisconoats for smut. Perhaps later we shall generation, the necessity of clearing sin. He cleared land which had never do some practical work with potatoes. every farm of its waste places and un- been broken, of stones and stumps, going and again we thank you.

Yours very truly,

J. C. SIEFERS.

RAISING AND FEEDING RABBITS. take an acre of waste land, one con-

DEAR EDITOR:

ens. I will say that we haven't any used to clear the land. The boy could more chickens, only about twenty-five. use any means he chose, but he must The raising of chickens is very profit- supervise or do the major portion of able, but when feed is so high priced the work himself. it takes all the profit out of it.



thirty and forty cents per pound. Rabbits are also bred for show purposes. kind of rabbits we raise. They are a panse. kind of dark gray or a steel gray. They

eating purposes.

not, it doesn't make so much difference of the boy. An impartial agricultural lets and three cockerels. We had some what the variety is. It is best not to committee closely studied the results chicken coops so I didn't have to build breed relatives because the baby rab- achieved, and awarded the prizes ac- any. bits will not be strong or healthy.

need to have anything fed to them be- which a Michigan boy wins first prize. cause the mother will attend to that. First Prize.—Walter G. Sparling, R.

I am working on a story of a dog. Yours respectfully,

#### C. R. COLVIN.

#### CENTRAL STATES.

Realizing the importance of pointing reclamation contest early in 1917. The third of his crop was killed by frost. conditions of the contest were very liberal-simply that the boy was to taining stumps, boulders, swamps, gullies, wet places, or other obstructions; In reply to your letter asking me to clear it, and grow a crop on it. No re-

Hundreds of boys from all sections of the country entered this contest, and went to work with a will to earn the coveted prizes. It was not long before acres, once in stumps, boulders or swamps, were cleared and growing Steel Gray Flemish Giants are the crops, taking the place of a waste ex-

This contest closed December 1, and weigh from six to eighteen pounds. at that time the boys forwarded a full They are good rabbits for showing and report of their activities in reclaiming their acre. This report was verified hatched eight of them, one died and If they are bred for show purposes by the county agricultural agent or by two of them came up missing, so I they should be bred accordingly. If two neighboring farmers, not relatives only had five left, these were two pulcordingly.

The feeding of rabbits is an easy We give below the result of the con- chickens. I fed them chicken feed, part. They should not be fed on a test in the north central group of wheat and corn meal. regular diet. Carrots or green stuff is states, Illinois, Indiana. Iowa, Michi-

Water should be given to them at least F. D. No. 1, Smiths Creek, Michigan. Cleared his land of stumps and gullies, The pens for rabbits are very simple. blasted out the stumps, then planted has been receiving without cost, your A pen two by three feet does very well potatoes and turnips, growing fortyexcellent paper, the Michigan Farmer, for two rabbits. The ground is very three bushels of potatoes, and thirty and we wish to thank you for same. good for them if they can burrow, but bushels of turnips despite the dry sea-From it we have gained much informa- a clean floor with plenty of straw is son. He now has his land planted in rye.

Second Prize.-Herman H. Hunte, R. Hunte removed the brush and stumps from his land, then planted onions, he produced 247 bushels, net proceeds of which amounted to \$110.81. After which he plowed his land for the coming year.

Third Prize .- Arthur William Hol-Your paper has encouraged the fore- productive areas, the Du Pont Co., of and raised seventy bushels of potatoes Wilmington, Del., announced a boys' and made a net profit of \$63.50. One-

#### HOW I RAISED MY CHICKENS.

Mr. Burgess, of the M. A. C., came out to one of our school houses and I write you another story about chick- strictions were placed on the methods went to the meeting and got a setting of eggs. I got White Leghorns and set them under a Barred Rock hen. She



This is my first experience with

Sometimes I would have to take my all right twice a day, and oats once a gan, Minnesota, Nebraska, North Da- pail and go chicken hunting. My chick-day is good. The little rabbits do not kota, South Dakota and Wisconsin, in ens would get up on the grain stacks all through harvesting and get to scratching. There was no occasion for them to do it for they had plenty to eat.

> I was very glad when a letter came from the college saying that I got second prize, glad I raised chickens. Enclosed find picture.

I remain. DONALD BAKER

The books which help you most are those which make you think the most. The hardest way of learning is by easy reading; but a good book, that comes from a great thinker, it is as a ship of thought, deep freighted with truth and with beauty.-Theodore Parker.

Uncle Sam is in a race against Germany for ships and food—are you with him?



C. R. Colvin and His Steel Gray Flemish Giants.

The United States was divided into The raising of rabbits is also profit- six territories, and cash prizes of \$50, able. Rabbits do not eat very much \$30 and \$20 were offered in each terriand they are now selling for meat at tory as first, second and third prizes to the boys who showed the best results commensurate with the cost in clearing their acre. In addition to these a number of farm newspapers cooperated in this contest by offering various prizes to the boys in their respective sections doing the best work.

#### MARCH 30, 1918.

#### THE MICHIGAN FARMER

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How the World's Business Is Transacted - By COMFORT A. TYLER

HEN you go in the bank to op- little deposit slips that you sometimes perience may be inclined to "bristle has never occurred to you. up" a little and think, if you don't say,

ble for you to do your business in so safe and convenient a manner, and the only way in the world the banker can for it will be done. make money in the banking business is to sell his money for a little more how much of a line of credit he would change occasionally, by selling some American Bankers' Associaiton checks or in making collections for his city not go very far toward paying the boy who sweeps the floor and washes the windows.

The banker's source of revenue comes from loaning a percentage as large as the law provides, of his aggregate balances to other customers who may require it in their business, thus keeping the largest possible amount of capital ever working, working, working. Now this being true, when he opens an account with you it is his first business to learn as nearly as may be about what he may depend upon by way of daily balances from you.

Remember, that when you start an account, which the banker is always glad to have you do, that it is not a one-sided arrangement, that the favor is not all on your side, but that the banker is serving you while you are serving him. I know of no more recip- lor, gymnasium or playground. rocal business in legitimate chnanels of trade than that of the banker and in the center of a circle with a wand, his customer. He gives you safety, service, and all the benefits of his finan- players dance around with him in a cial experience-always at your ser- circle until he taps three times on the ing for you and the community at large stand still. The blind man thereupon and he keeps the idle money of others points his cane at some player, who some critical place.

will solicit your business that you also the blind man tries to guess the name The banker pays insurance on the safe- man. keeping of your money. He provides The players should try to disguise genuit does the work of handling, he takes taller. the risks, he provides you with a check Where there are thirty or more playwith a stub to keep your records on- the center. he has to pay for this book also; did There is much sport in this game them, he pays the printer for the very under all three circumstances.

en your commercial or check- use carelessly for all sorts of purposes ing account, the banker may other than listing your deposits-they ask of you, "what kind of an account cost him good money. If your remitdo you wish to open and how much of tances come to him by mail, he aca balance do you expect to carry?" knowledges it by mail-somebody pays Now this is a perfectly legitimate ques- the postage, who, do you? Oh, no, he tion to ask, albeit you, in your inex- pays it and also many other things that

Now, I am not telling you all of this, "well, what business is it of his?". If boys and girls, to curry sympathy for I keep enough in the bank to take care the banker. I am doing it for your own of what checks I write, what is it to well-being, for your own good, for I him how much balance I am to carry, know that our boys and girls do not Now, stop and think a minute, lad- wish and will not wilfully do business dies; it is all the difference in the in an unbusiness-like manner, and I world to him, it is the difference be- wanted you to appreciate that there tween profit and loss perhaps. If a were always two sides to every quesmerchant knows exactly what he must tion and usually one side is the right sell his good for, and exactly what it side and the other the wrong side. costs him to do business, it is a matter With our folks it is only to know which of a good deal of importance to know is the right side, to fully appreciate just what his goods are to cost him, their obligations to the men who are is it not? This is the problem of your really serving them and the commubanker. He is entitled to a just profit nity at large, to realize that this serfor his labor and for making it possi- vice is as much due from them to the banker as from the banker to them, and that will be the end of the story

It is well to learn from your banker than he buys it for. He may add a feel warranted in extending you. That trifle to his profit by selling a little is how much he would lend you in case of need and on what kind of security or collatteral as it is often called. You may never require it and again you correspondent bank, but all of this will may some day suddenly be confronted with a business deal that is a good one but to be available, requires immediate money. If you have before hand made all of these arrangements as against a time of need, then you will know exactly what you are warranted in doing. You might, on very urgent need, even go so far as to issue your check for an amount in excess of your balance, but if you do so, get busy at once and notify your banker, by telephone or wire, or by getting to him before the check can possibly do so, and giving the note and such colatteral as may have been agreed upon to protect your account. Don't do this ever unless you

#### ANIMAL BLIND MAN'S BUFF.

have made previous arrangements for

credit when needed.

Ten to thirty or more players. Par-

One player is blindfolded and stands stick or cane in his hand. The other vice-he keeps your idle money work- floor with his cane, when they must also working to help you when you must take the opposite end of the cane most need it and must be tided over in his hand. The blind man then commands him to make a noise like some Now, I want you to feel, boys and animal, such as a cat, dog, cow, sheep, girls, that while the banker wants and lion, donkey, duck, parrot. From this have an obligation to perform and that of the player. If the guess be correct, obligation is to always keep a reason- they change places. If wrong, the able balance in your checking account. game is repeated with the same blind

safe quarters for it in so far as the in- their natural tones as much as possiy of man has as yet been able ble when imitating the animals, and to foil the efforts of marauders. He much sport may be had through the provides a neat little pass book to keep imitation. Players may also disguise your deposit entries in-he has to pay their height, to deceive the blind man, for this little book, it is not given to by bending their knees to seem shorthim, although he gives it to you, he er, or rising on their toes to seem

book neatly printed and numbered ers, two blind men should be placed in

you think someone gave them to him for either children or adults or both as he does to you? Well, you are mis- together. The author has known it to taken if you do, for he has to buy be the occasion for great merriment



#### The Planter Starts the Crop

YOU know how much better chance a corn crop has when it gets a good early start with an even stand. It takes a good planter to give it that start, a C. B. & Q. or International Corn Planter that is easily adjusted and that stays adjusted until the job is done. Consider these planters feature by

feature. They plant corn accurately whether used with edge drop, fat drop, or full hill drop plates; whether the corn is checked or drilled. The drop clutch can be changed, while the planter is working, to drop 2, 3, or 4 kernels to a hill. The tongue is easily adjustable to the height of the horses. A handy foot drop lever makes head-row planting easy. When you look over the C. B. & Q. or International planter, don't miss the automatic marker, a handy feature that saves a lot of work and time. There are fertilizer attachments if you want them, combination pea and corn planting hoppers, open wheels or closed — your planter will be equipped just as you want it. You can plant rows 28 to 48 inches wide by 2 inch adjustments, with four distances between hills. These planters are so good you will want to know all about them. Drop us a line and let us send you full information.

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must be terribly depressing to reach middle life and never to have done any of the things you planned to do when you started out fresh-why, in her life bigger than seeing a movie, not be allowed to spoil her life. But and your voice breaks, you begin to just yesterday, wasn't it? I imagine it gives one a terrible sinking sensation to awake with a start on some birthday with the thought,

"Why, here I'm half through, and I haven't yet even got nicely started on the work I meant to do."

Yet I believe that's the experience by the things we meant to do. And he'd like to give her her chance, has true to form. who of us, even the one who seems never been able. There are two chilmost trifling, but started out with the dren who take all the money which with unrealized ambitions. But after great tragedy queens, or heading imhighest ambitions? To me it is one of might have gone for music. So the all, middle age has its compensations. portant committees, but if we are, inthe best attributes of human nature, violin has stood unused until this win- If you have lost your enthusiasms and stead, in the kitchen or bringing up that we keep right on smilingly and ter when her boy began to study. Now illusions, at least you have learned children, that is because the world hopefully, even after we know of a she is watching to see if her ambition your limitations, which is a consumma- needs more cooks and mothers and surety that our chances for realizing will be realized in him. For herself, tion devoutly to be desired. Doubt- fewer public characters.

these little human life tragedies. now has given up forever. There's one woman, in particular, that She has taken it in good part, as one try. Just because you have a sweet brighter spiritual sight. I would have sworn never had an idea of the things that had to be, and must parlor voice, is no reason to think you

### Compensations

with a box of chocolates or a pair of pointments differently.

or a desire that couldn't be satisfied there are others who take their disap- see that. You may be able to write a silk hose. Yet she had. I found that men, too, who rail at the arbiter of no reason to think you might become out when she showed me her greatest destinies, and will not be content to a second George Eliot if someone else treasure one day, an old violin, of un- give up and accept what life offers in- would wash the dishes and do the questioned worth, on which she plays stead of what they crave. They are cooking and leave you free to write. a few simple melodies. All her life the one who try to force sons and I've always had a feeling that very, she has wanted to study violin. Her daughters into careers against their very few of us miss our real "chance". father might have paid for lessons, but nature, because that is the thing the in life. That what we consider our voof all but a very small per cent of he didn't believe in "no such tomfool- father or the mother wanted to do. cation is usually only a dream, and folks, basing my belief on actual con- ery for girls." In fact, he didn't be- Happy indeed is the parent, whose that we are actually engaged in doing is versations with men and women who lieve much in girls, anyway, and when child follows out the thwarted desire the thing for which we are best fitted, have passed the half-way post. For no she was thirteen he decided she was of the older life. But wise is the par- or at least the thing which is most matter what our friends may think of old enough to earn her own living. She ent who, if the child's nature points needed by the world. We may feel our success, we measure it ourselves married at twenty, a man who, while otherwise, lets the younger life develop that we should be writing learned mag-

our fondest ambitions have vanished. it is simply a dream, a thing she plan- less the things you wanted to do, you

might have become a prima donna if you'd had the money to cultivate your voice. And when you get to be forty Women, and good paper for the club, too, but that's

azine articles, or thrilling audiences It's a sad thing to reach middle life with our voice, or taking the part of

Middle life usually brings us this I am continually stumbling upon ned to do, back there in youth, but couldn't have done anyway, even if clearer vision. So if our physical eyes fate had vouchsafed you a chance to fail us the thing is balanced by our

DEBORAH.

# Uncle Sam's Message to America's Houswives

HE best thing we can offer to the public to help the country save the wheat is potatoes," so runs an advertisement of a New Orleans dealer. It is a good "ad" and interprets today's needs.

Potatoes are universally liked. There is still a large supply on hand that must be used or go to waste. Now is the time to use them while the ban on meat is lifted for awhile. Back up savory stews with ample servings of potatoes and cut down on bread.

"Join the Wheat Savers' League." Potatoes are an acceptable substitute for bread. A pound of baked potatoes is equal in nutritive value to seven ounces of bread. Use the perishable potato as a wheat and as a bread substitute.

Serve potatoes boiled in jacket, creamed, hash-browned, and don't forget the baked potato.

Potatoes are a splendid food, excellent for your body, and delicious when well cooked. They are good fuel. They furnish starch which burns in your muscles to let you work, much as the gasoline burns in an automobile engine to make the car go. One mediumsized potato gives you as much starch as two slices of bread. When you have potatoes for a meal you need less bread. Potatoes can save wheat. They give you salts like other vegetables. You need the salts to build and renew all the parts of your body and to it in order.

#### Potatoes at their Best.

him to boil a potato. Even the best part of the potato with the skins. Also, potato can be spoiled by a poor cook. if the potatoes aren't covered up by the To beil them so that they will be "fit skins while cooking, some of the valufor a king" drop the unpeeled potatoes able material will soak out into the into boiling salted water and cook for water. Even very small potatoes can twenty to thirty minutes. Drain the be economically used, if they are boilwater off at once. If they are cooked ed in their skins. For best mashed potoo long or allowed to stand in the wa- tatoes, peel the boiled potatoes, mash and beat until very light, adding salt, ter they get soggy.

If you peel the potatoes before cook- butter and hot milk, a half-cup of milk ing them you will waste time and po- to six potatoes. If dinner is not ready



In responding to this message, Michigan women will promote a more liberal use of one of the state's most important crops.

An old king is said to have tested tatoes both. You may throw away a to serve, pile lightly in a pan and set each cook before hiring him by asking sixth or even a quarter of the good in the oven to brown. Potato Chowder. 6 potatoes.

- Slice of salt pork

- 1 teaspoon chopped parsley
- 1 teaspoon salt

small pieces; fry the pork and onion in a pan until brown, put potatoes, onions and meat into a pot, add a pint of water with seasonings; simmer half an hour; make a white sauce of the milk, flour and drippings; add to the cooked potatoes. Let all boil for a few minutes and serve hot.

Potato Pancakes-No. 1.

- 6 raw potatoes (large) grated
- 1½ teaspoons of salt 1 tablespoon milk
- 1 egg beaten
- 3 tablespoons flour

Mix the above ingredients, beat thoroughly and cook on a hot greased. griddle.

Potato Pancakes-No. 2.

- 1 cup mashed potatoes 1/2 teaspoon salt
- 1 egg, beaten
- 1 tablespoon flour
- 1/4 cup of milk

Mix the above ingredients in order given, beat thoroughly and bake on a hot greased griddle.

- Potato Muffins. 4 tablespoons fat
- 2 tablespoons sugar
- 1 egg
- 1 cup mashed potatoes
- 2 cups flour 3 teaspoons baking powder
- 1/2 teaspoon salt

1 cup milk Cream the fat and sugar; add the heaten then the well mix thoroughly; sift flour, baking powder, and salt; add milk and flour alternately; bake in greased muffin tins for twenty-five to thirty minutes.

- Potato Biscuit-No. 1.
- 1 cup mashed potato
- cup flour
- teaspoons baking powder 4
- 1 teaspoon salt 2 tablespoons fat

1/2 cup water or milk (about). Sift together flour, baking powder and salt; work in the fat with fork or knife; add potato and mix thoroughly; Cut potatoes into dice and pork into then add enough liquid to make a soft

- - 1 onion
  - 1 pint of milk
  - 1 tablespoon flour
  - tablespoon drippings

  - 1/2 teaspoon pepper.

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dough; roll the dough lightly to about concealed and brown in the oven or a half-inch in thickness; cut in biscuits frying pan. and bake twelve to fifteen minutes in hot oven

#### Potato Biscuit-No. 2.

Boil and mash six or eight potatoes; while warm lay on a floured pastryboard and run the rolling pin over and over until they are free from lumps; turn into a bowl, wet with a cup of sweet milk and add a teaspoon of melted fat; when well mixed work in half a cup of salted flour, or just enough to make a soft dough; return to board, roll out quickly and lightly into a thin sheet, and cut into round cakes; bake in a quick oven; butter as soon as they are done, laying one on top of the other in a pile. Eat before they fall.

The excellence of potato biscuit depends very greatly upon the softness of the dough, light handling, and quick baking. If properly made, they will be found extremely nice.

#### Shepherd's Pie.

tom with mashed potatoes. Add a cake. layer of cooked minced meat or fish seasoned well and mixed with meat stock or gravy. Cover with mashed Farmers' Bulletin No. 807, "Bread and potatoes. Bake long enough to heat Bread Making in the Home," from the through, twenty or thirty minutes.

Scalloped Potatoes and Cheese. Arrange a layer of sliced raw or yeast bread. boiled potatoes in greased baking dish and sprinkle with grated cheese and a little flour. Repeat until dish is nearwhether the baking dish is deep or are fighting for democracy. shallow. Boiled potatoes baked in a shallow dish will take only twenty minutes. Raw potatoes in a deep dish may take as much as an hour and a half.

Potatoes, left over or fresh, may be combined with cheese or nuts, or meat or other material often to make the main dish of a meal.

#### Potato Sausages.

1 cup mashed potato 1 cup ground nuts, fish or meat 1 egg, well beaten

1½ teaspoons salt

1/2 teaspoon pepper

Bacon or other fat Mix the mashed potato and seasonings with the ground nuts, fish or meat. Add the beaten egg. Form into little cakes or sausages, roll in flour and place in a greased pan with a small piece of fat or salt pork on each sausage. Bake in a fairly hot oven until brown.

#### Potato Cornmeal Muffins.

2 tablespoons fat

- 1 tablespoon sugar
- 1 egg, well beaten
- 1 cup milk
- 1 cup mashed potatoes
- 1 cup corn meal
- 4 teaspoons baking powder
- 1 teaspoon salt Mix in order given. Bake forty minutes in hot oven. This makes twelve muffins. They are delicious.

- Potato Souffle. 4 cups hot mashed potato
- 1 tablespoon melted fat
- 2 tablespoons milk
- 1 teaspoon salt
- 1/2 teaspoon pepper
- Yolks of two eggs

15 Whites of two eggs beaten stiff Mix all but the whites of the eggs in the order given; beat thoroughly, fold in the stiffly beaten whites; pile in a baking dish and cook until the mixture puffs and is brown on the top. Surprise Balls.

Form mashed potatoes into balls of grated cheese with salt, celery salt, 10 cents. of grated cheese with salt, celery salt, <sup>10</sup> cents. No. 2134—Boys' blouse and trousers. No. 2134—Boys' blouse and trousers. Cut in four sizes, 4, 6, 8 and 10 years. Size eight will require three yards of ball; mold the ball so the stuffing is 36-inch material. Price 10 cents.

12

Colcannon. Mix one cup of mashed potatoes and one cup of chopped greens to a smooth paste; add a tablespoon of fat, salt and

paprika to taste; place in baking pan, cover with mashed potato, brown in the oven and serve very hot. White Potato Custards.

2 cups riced baked potato 4 eggs, beaten slightly 1 cup sugar

1/8 cup fat

1/4 cup thin cream or top milk Juice and rind of one lemon

Mix in the order given; beat hard for five minutes; pour into a baking dish. Bake in hot oven twenty or thirty minutes, or until custard is set. Potato in Cake.

In the usual cake recipe, substitute one cup of mashed potatoes for onehalf cup of milk and one-half cup of flour; mash the potatoes and beat up with milk until very light. Potato cake Grease a baking dish, cover the bot- does not dry out so quickly as all-flour

#### Potato in Bread.

Potatoes are good in breads. Get Department of Agriculture, Washington, D. C., to learn how to make potato

Corned beef is an excellent meat which can be used to take the place of ly full. Pour milk over the whole, the high-priced pork meats during the about one-half cup to every three pota- war. It can be used by the farmers to toes. Skim-milk is good. Bake in a sustain them while at hard labor in the moderate oven until done. The length open air while engaged in raising the of time required depends upon wheth- different kinds of produce which will er the potatoes are raw or boiled, and be needed by the allied nations which

> If you run your household on three pounds of sugar a month per person, when fall comes the grocer won't have to hang up the sign, "No Sugar."



Any of the patterns illustrated may be secured by sending order to Pattern Department, Michigan Farmer, Detroit, enclosing the amount set opposite the patterns wanted.



No. 2312-Dress for misses and small women. Cut in three sizes, 16, 18 and 20 years. Size 16 requires 4% yards of 44-inch material. The skirt meas-ures about two yards at the foot. Price, 10 cents. No. 2297-Ladies' house or porch

dress. Cut in six sizes, 34, 36, 38, 40, 42 and 44 inches bust measure. Size 36 requires seven yards of 36-inch ma-terial. The skirt portion measures about  $2\frac{1}{2}$  yards at the foot. Price, 10 cents



Form mashed potatoes into balls and with a teaspoon make a depres-sion in the top of each; mix one cup 3<sup>1</sup>/<sub>4</sub> yards of 36-inch material. Price



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160 acres of good farming land. Good location 6 miles from town on good road. Good soil mostly seeded down. Good house, barns old but lots of barn room. 30 acres timber, 20 acres pastnre land, near school Price 530 per acre, must be sold to settle an estate. Ad. dress FRANK E. BIDWELL, Brighton, Mich

subscription rates. Address, THE MICHIGAN FARMER,

#### POULTRY HOMESTEAD FARMS

A Federation of Interests A Word to the Farmer Poultry-men

and Women of Michigan. almost every issue of the Farmer you willfind some ing new in this space, and we ask you, therefore save to glance each week at what we have to say mestead Farms is working out a practical federa n of the business and social interests of the peal farmers of Bloomingdale and vicinity, and which to be a benefit also to the farmere of the state

**Pure Breed Practical Poultry** In Pure Breed Practical Poultry we have; Barred, White and Buff Plymouth Rocks; R.C. Rhode Island Reds; White Wyandottes; S. C. Black Minorcas S. C. and R. C. White Leghorns; S. C. Brown and Buff Leghorns; S. C. Anconas,

#### Day-Old Chicks

Day-Old Chicks from any of these breeds can be urnished, providing three weeks' time is given for natching. We can furnish almost an unlimited num-er of Barred Bocks, Rhode Island Reds, and White Gehorns. Do you want vigorous, naturally healthy tree farm-range poultry stock? We invite corres-pondence with poultry farmers who are looking for took that will give eggs plentifully next winter. Eggs for Hatching

Eggs from our Pare Breed Practical Poultry for set-ng, or in quantities for incubators, with fortility uaranteed. We can furnish any number of Barred ock, Bhode Island Reds, and White Leghorn eggs.

#### Eggs for Broilers

**Tymouth Rock eggs in any quantity can be furnished** or hatching Broiler chicks. On these we make a pecial price and a special guarantee.

#### **Grown Fowls**

We have yet for sale; 3 Barred Riymouth Rock cock-els; 15 Single Comb Rhode Island Red Pullets with the cockerel; 5 R. O. Rhode Island Red Pullets; 6 Bar-d Rock Pullets or Hens with Cockerels; 1 Gray pullouse Gander. bullouse Gander. If you are a poultry-farmer that wants practical arm poultry stock, will you please write to us for our ircular which briefly describes the poultry we offer

We have already come into a fine correspondence ith the poultry farmers of Michigan, but we want bear from you; we want to place some of our Pure reed Practical Poultry on your farm.

HOMESTEAD FARMS, Bloomingdale, Mich. Baby Chicks from Standard Bred S. G. White and Brown Leghorns. Good laying stock. 513 per 100. Safe arrival guaranteed. Catalogue free. Book your order now for spring delivery. Wolverine Hatchery, Box 202, Zeeland, Mich.

Barred Rocks -EGGS FROM STRAIN with 15. Delivered by parcel post, prepaid. Circular free. FRED ASTLING. Constantine, Mich.

Barron English 20 egg strain White ter lavera, large size birds. Hatching egg \$\$ per 100. Chicks \$13 per 100. Guarantee satisfaction. Devries Legnon Farms and Hatchery, Box A, Zeeland, Mich.

Barred per 13. Plymouth Rock eggs for hatching from J. A. BARNUM, Union City, Mich. BARRON Strain S. C. White Leghorns Bred to Lay Blong bodied vigorous stock. Eggs and Chicks, prices right. Bruce W. Brown, R. 3, Mayville, Mich.

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BABY Chicks. Bred-to-lay S. C. White Leghorns cular. Order direct from this adv. Cash in full with or-der. Batch every Tuesday, beginning April 2. Sunny-brook Foultry Farms. C. 6. Burroughe, Pros. Hilbsda, Mich.

Buff Leghorn Cockerels, and a few pens, pr. WILLIAM A. SMITH, Petersburg. Mich.

Buff Orpingtons-Seventeen years. Best exhibition egg producing strain. Eggeor Baby Chicks. Gir-cular free. WILL SCHADT, Goshen, Indiana. Chicks, We ship thousands, booking orders now for spring delivery. free booklet. FREEPORT HATCHERY, Box 12, Freeport, Mich.

Cockerels-From Chicago Coliseum winning stock. \$3 C& up "Ringlet" & Buff Rocks, both combs Reds, Span-ish Orpingtons, Wyandottes, Tyrone Poultry Farm, Fenton, Mich Choice Chicks April and May heavy breeds and Leghorns52 for \$9. Eggs brescent Egg Company, Allegan, Mich

Chicks and eggs, standard bred stock, Leghorns, Minor Cas, Spanish, Rocks, Reds, Orpingtons, Wyandottes, Campines Houdans, Polish, Scotch Greys, Tyrone Poultry Farm, Fenton, Mich

**DAY-OLD CHICKS** of quality guaranteed to 1,500 miles. Eggs for Hatching at low prices. Bar. Rocks, S. C. W. Leg-horns, S. C. and R. C. Reds, W. Wyandottes, Buff and W. Orpingtons. Chicklet catalog\_free, GOSHEN POULTRY FARMS, R-19 Goshen, Indiana

**DAY-OLD-CHICKS** oung's Heavy Laying Strain S. C. White Leghorns .00 per 50, \$15.00 a hundred, Safe delivery guaranteed. nmediate shipments. Order now or write. OY L. DRUKKER, 711 Delaware St., Grand Rapids.

DAY OLD CHICKS 250,000 for 1918. 110 per 100 and up. Purebred. Hatch ed right. Strong guarantee. 10 leading varieties Hatching eggs. Big brooder offer. Western Branch Augusta, Kansas. Free catalog. Stamps appreciated Hubers Reliabe Hatchery, 333 W. Fremont St., Postoria. 0 Laybill S. C. W. Leghorns Large, great lavers. Pure breeding hens now. Everfresh Egg Farm, Ionia, Mich.

Ferris White Leghorns A real heavy laying strain, trapnested I7 years, records from 200 to 264 eggs. Get our special summer prices on yearling heas. breeding males, eggs for hatching, 8-week-old pullets and day old chicks. We ship C. O. D. and guarantee results. Catelog gives prices; describes stock; tells all about our farm and methods; results you can get by breed-ing this strain. Send for your copy now—it is free. GEORGE B. FERRIS . 984 Union, Grand Rapids, Mich

Chicks that Live \$15 per 100 S. C. W. Leghorns Send for catalog. 1 SNOWFLAKE POULTRY FARM, R. I, Grand Rapids, Mich. Fowlers Buff Rocks Booking orders 54 for 50; 55.00 for 50; 58.00 for 100. R. B. FOWLER. Hartford, Mich. John's Big beautiful hen hatched Barred Rocks good Jayers males & females \$3 to \$5 each. Breeding pens \$12. Sold on approval circulars photos, John Northen, Clare, Mich **IMPROVE YOUR POULTRY** My Young's strain bred-to-lay S. O. White Leghorns are great money makers. 100,000 baby chicks for 1918 delivery at \$13 and up per 100. Satisfaction guaran-iced. Write for free catalogue.

W. VAN-APPLEDORN,

# **Raising Rabbits for Profit**

THE MICHIGAN FARMER

By G. A. BALDEN

tion of food stuffs. It is not necessary prices. to point out the rapidly increasing cost of the different food stuffs.

haps, about the high price of meats. Checkered Giants. These are the largand prospects of not having it at all, est and heaviest in the whole rabbit hog industry has decreased alarmingly. black, white, grey, in different shades, A total decrease of 115,005,000 in the and a fawn color grey similar to color world's meat producing animals is of the common wild cottontail. The shown in comparison of the present steel colors take the lead at present. with pre-war conditions, in a statement The main commercial breeds are the Hare for several years and they have issued by the United States govern- Flemish Giants, Checkered Giants, Bel- paid me a very large percentage on the



A Pedigree Flemish Giant Doe. less something is done towards producing more meat, the world may soon be facing a general meat famine.

For Quick Meat Production.

One of the duties of the American people is to produce as never before, That is why the food administration more hogs, and that is why the domes- dressed, dyed and clipped and then im- love for the work, and business manticated rabbit industry is so vitally im- ported to this country, where they are agement. portant at this time.

The domesticated rabbit heretofore has been too much overlooked as a commercial article of food. As with many other industries, it required war conditions to bring it to the front. It is my belief that the domesticated rabducing animal in the world. Rabbits can be produced cheaper, pound for pound, than any other meat producing animal in the world.

ed in unlimited quantities at a cost of about six cents a pound and by using and a profit. the lawn clippings and other vegetathe cost can be made even lower. Rabbits require a smaller amount of space establish one in a paying rabbit business is considerable less than that re- hatched in April or May. quired in any other meat producing business. The supply can be greatly ed for the production of crops.

Food Value High. five per cent, beef fifty-five per cent, poultry meat. and chicken only fifty per cent. The It pays better to save the chicks \$5.00 invested in a good quality of rabbit is the ideal meat producing ani- that do hatch than to increase the meat scrap will bring back from \$20 mal, and when the public shall have hatching. Equipment is necessary for to \$30 worth of eggs. Beef scrap, sour become more familiar with it, our sup- the production of poultry and a lack skim-milk, or tankage are necessary to ply of meat will be increased. Let us of equipment or an attempt to do with- growth in poultry and also in egg prointerest ourselves in this important out it always means a severe handicap. duction. matter and get our friends interested The hopper feeding pays and causes The time to sell surplus hens is the in it. Make a start and raise enough the chicks to grow normally into large first time that they are found to be "no R. 7, Rolland, Mich. rabbits to first supply your own table, vigorous birds. Like the boy in the good." The early moulting hen is apt

HERE has never been a time in and if you handle rabbits rightly it this nation's history, when there will not be long unitl you will have was greater need for the produc- meat to sell. You will find an open er to bend every energy to the produc- market for all you can produce at good

My own choice of the many different breeds of rabbits is the Flemish Giant, Millions of us are complaining, per- closely followed by the American sooner or later, because the cattle and family. Color of the Flemish Giant is ment. This is a great figure and un- gium Hares and New Zealand Reds.

As a Fur Animal.

That the culture of the different varieties of rabbits is profitable, not only for the quantity of the cleanest, sweetest and most wholesome meat they provide, but for the skins as well, has been proven by many of the 30,000 persons engaged in the raising of these animals.

Few people really know the prominent part the rabbit plays in the commercial world. Furs are fashionable, and the supply of the expensive "real stuff" is getting so scarce that furriers have to look for substitutes, and the most useful and important has been found in the rabbit skin.

France was the first country to use these skins, factories having been built where the rabbit skins are transformed into fine imitations of expensive furs. Hundreds of thousands of rabbit skins enter these factories and leave as "Cony Seal," which is the name they money invested. I admit that there are known by in the market. There are many who have lost money in are also beaver, ermine, sable, (in dif- breeding them, and there will be many ferent colors and variety), mole, black more. Yet you will find it just the fox, red fox, chinchilla, and numerous same in every kind of business, but other imitations and fancy furs, "but the rabbit game in the right hands will all rabbits." Rabbit skins yield large be a success. the meats that can be raised quickly. profits over there. Most of them are This brings us to the conclusion that collected by rag and junk men, sent to the requirements needful to establish is calling upon the farmer to raise the factories where they are cured, one in the rabbit industry is simply

made up into furs of all descriptions and prices. France has a national industry in rabbit skins.

#### Rabbits Are Profitable.

A lady from the west, a Mrs. Sherman, tans and makes up the skins from her own rabbits. She wears a hat and muff from rabbit skins and has had her two-year-old son a coat made of the fur of the Himalayan rabbits and both look as well dressed as though they wore the most expensive of furs. This lady said in an interview on the subject: "Does it pay to raise rabbits? I don't know of anything else that gives the same return for the outlay. There is no question about the business being a profitable one. I have been breeding the Belgian



A Checkered Giant Buck.

# Poultry Hints from the Round-Up

bit is the most economical meat pro- points which may be of interest to eat what they need for growth and poultry breeders not present at the then enjoy searching on the range for meetings. Among the points of value the remainder of their feed. On one are the following: False economy in farm a farmer adopted the hopper feedthe feeding of the flock is not patriot- ing method for his hogs and gave them Practical experience has demonstrat- ism and the hens should obtain enough a hopper filled with shelled corn and ed that the rabbit meat can be produc- of a balanced ration to enable them to tankage. The hens were on free range produce the eggs to pay for their reed and soon found the hog hopper and en-

tion that would otherwise be wasted, for the production of winter eggs. additional eggs to much more than Such breeds as the Rocks should be pay for the amount of feed taken from hatched in March and April. The Leg- the hog feeder. per animal, and the capital required to horns may be brought to maturity for winter egg production if they are

#### For Economical Breeding.

increased within a few months with- ommended for the economical growing new man thought he would save feed out requiring space that may be need- of chicks. In one experiment 114 out in the care of the flock and did save of 119 chicks placed under a coal-burn- feed to the value of \$150. During that ing prooder stove were raised to ma- time the owner lost \$500 worth of eggs Now, as to food value, rabbit meat turity. The scarcity of hard coal has according to his estimate, based on the yields eighty-three per cent of digesti- placed many poultrymen in doubt as results that he had made with the ble nutriment, which is more than any to their supply of coal for spring chick same sized flocks during other years other meat yields. Pork is the highest brooding but it is reported that the when they were given plenty of a balin nutriment of the meats sold at the fuel administration will make every anced ration to keep up egg producbutcher shops. It yields seventy-five effort to supply poultrymen with fuel tion. per cent of nutriment, mutton sixty- enough for their work in producing in summer. According to Prof. Phillips,

HE address by Professor Phillips candy store the chick will not stuff at the Farmers' Round-up Insti- continually just because the abundanttute contained many practical ly filled hopper is present. They will joyed square meals. They soon laid Early hatched pullets are necessary as never before and produce enough

#### False Economy.

One instance was related of a young poultryman who was taken ill and had to turn his feeding work over to an-The use of the brooder stove is rec- other farmer without experience. The

**R**3

summer. According to Prof. Phillips,

cause of their poor looks and this is a these nodules also. serious error. The early moulters, over-fat hens and runty specimens one, and is one which cannot under should be culled out in August in order our present knowledge, be cured. After to save feed and enable the remainder the disease reaches the stage where it of the flock to make better average can be diagnosed, the most practical records

R. G. KIRBY. Ingham Co.

#### OATS FOR POULTRY.

grain, oats will probably fill a larger plenty of ventilation without Graught. part than ever in the raiton of the farm They should be properly fed to keep up flock. Oats that are boiled or soaked their vigor, and what is termed "good over night make a fine feed for hens, care" should be given the flock. The oats soften and swell and are much relished by the birds. Clipped must either be burned or buried so oats are used to advantage in feeding deep that animals cannot dig them up. young birds. The clipped oats are run Before carrying out these drastic through machines to remove the sharp measures, make sure that the birds tips and part of the hull.

first week on dry rolled oats scattered you had better call a veterinarian. in the litter about every two hours. The sprouted oats furnish an abundance of appetizing green feed at a minimum expense. In using ground oats in the mash for laying hens it is not the winter should be managed so that necessary to sift out the hulls. Oats it will produce as much honey as poscan be fed dry to laying hens without sible during the coming summer. Since much danger, although some have the the sugar supply is limited on account impression that the sharp tips will of the demand abroad there is no dancause serious injury to the birds. We ger of over-production of honey for have never noticed any injury due to some time to come. Prices offered for feeding oats but undoubtedly they have extracted honey today are three times a greater feeding value if they are what they were a little more than a soaked for several hours or broiled be- year ago. Bees are worth giving the fore feeding.

#### POULTRY QUERY DEPARTMENT.

#### Coal Ashes.

Some poultry journals claim they are. My hens like to eat the small pieces of slate in them and then wallow in the fine dust. Do you think wallowing in the dust would cause them to have scaly legs? W. F.

Coal ashes have not generally been found detrimental. We have, however, received reports from some who found their chickens looking for the small pieces of coal, and when it was available to them, egg production was limited.

chickens to dust in, provided they have strictions of the Food Administration a chance to get out where there is moisture.

The scaly leg develops when chickens constantly run in alkali soils.

We are sure that in moderation the use of coal ashes for dusting and shortage of feeds and the high price of scratching purposes will be all right.

#### Tuberculosis.

Last spring I had considerable trou-Last spring I had considerable trou-ble with my poultry. The flock as a whole looked good and laid good, but every little while a hen would dump, and although she ate well, kept getting lighter and weaker and at last would die. The droppings were rather loose and streaked with white, green and reddish brown. I set eggs from this flock and they hatched fine, but the chicks died in bunches from one to a dozen, without any apparent cause. and streaked with white, green and reddish brown. I set eggs from this flock and they hatched fine, but the chicks died in bunches from one to a dozen, without any apparent cause. They looked well and were hearty eat-ers, but every time I went to the coop would find three or four dead. I fed fine chick feed for about two weeks and then coarse chick feed and wheat. I gave my flock a good poultry tonic and disinfected the hen house every week. I see indications of the disease this winter and one hen died in the same way last week. What is the trouble? Is there any connection be-tween that and losing the little chicks? Would you advise setting eggs from the flock another year? L. F. W. , Judging from the symptoms you give I greatly fear that you have tubercu-losis in your flock as nother year and the the state of Texas alone. This means that 160,000 birds that were laying, or about ready to lay.

I greatly fear that you have tubercu-losis in your flock, as primary symp- were prevented from turning into eggs

to be the poor layer and she should be white nodules which are filled with culled out. However, the late moult- a cheese-like substance. Very often ing hens are often sold on farms be- the other organs of the body have

This disease is quite a contagious way to eliminate it is to destroy the entire flock, thoroughly disinfect the coops and grounds and start again with healthy stock. With a new flock care should be taken to provide the On account of the high price of hens with sanitary surroundings and

In disposing of the flock, the bodies have this disease. If you do not feel Young chicks will do very well the confident of diagnosing this yourself,

#### BEES WORTHY OF MUCH CARE.

Every colony of bees that survives best of care, and colonies now in inadequate hives should be transferred to modern ones at fruit-blossoming time, be given plenty of room for brood rearing, and be provided with a Are coal ashes hurtful to the hens? storage of honey. Bees are the only agents capable of recovering the tons and tons of nectar that will be available from all sorts of flowers during the growing season. Without bees all this is wasted.

#### SURPLUS BREEDERS AND THE BACKYARD FLOCK.

Poultry production must be pushed vigorously. "One Hundred Hens on Every Farm," is the popular timely Coal ashes will not be harmful to slogan and fits in aptly with the reon the marketing of hens, effective until April 30. This regulation caught some poultry raisers with a surplus of breeding hens, although there is no surplus in the country at large, for the poultry has tempted breeders and the ers of small flocks to sell their hens. Even those inconvenienced by the restriction on the sale of hens can easily see the point of the regulation. If the hens- are killed off the hundred-hen movement has little chance, nor will there be hens enough to supply the

backyard flock for the man with the

losis in your flock, as primary symptoms of this disease are a great appetite and loss of weight. General weak ness, ruffling of the feathers, paleness of the comb, and in a great many cases diarrhoea, are also telltale symptoms.
A post-mortem examination will enable you to tell whether the trouble is tuberculosis or not, more definitely. The liver of a fowl affected with tuberculosis is usually covered with small

# Automobile Accident Adjusted Out of Court

\$40

The boy driving the automobile of H. B. Burdick, of Saginaw, acci-dentally ran into and injured Frederick Brush, a boy of about five years of age, causing death. Mr. Burdick was insured in the Citizens' Mutual Automobile Insurance Company, of Howell, who took charge of the matter which resulted in a settlement satisfactory to all parties, upon March 20, 1918.

Mr. Burdick says: "I am more than pleased with the way that my case has been handled. It is a great relief to know that a matter of that kind can be turned over to experi-enced men for settlement. Mr. Robb took charge of the case immediately after the accident—witnesses were took charge of the case infinediately after the accident—witnesses were interviewed and statements taken. Mr. and Mrs. Brush were treated with courfesy and when the proper time came a settlement was made satisfactory to all. Many people have asked me what I think of auto-mobile insurance and I tell them that I would not be without it, as no one can tell when an accident will occur, or when they will have a fire or a theft claim, and I know from my experience the past few weeks that no company could give better service than the company at Howell. The company is certainly in good financial condition and the injured parties know that they can get a fair settlement when they make reasonable claims, and the officers have had enough experience after the accident-witnesses were officers have had enough experience to know what to do under certain conditions. No automobile owner should be without a policy in this large Mutual Company, as the rate is very low and the service good."





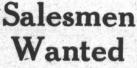
FOULTRY SUPPLIES and equipment. meed from legbands to buildings. 40 page free sta-log quotes lowest prices on hundreds of articles. GRORGE B. FERRIS, 634 Shirley Street, Grand Rapids, Mich-WANTED: Experienced farmer, single, work-ing foreman by the year. Box S 39, Michigan Farmer, Detroit, Mich.

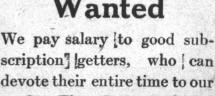


Orchard and Garden should have bees. We can start you. Sections. Foundations. Bee Yo complete line of supplies for bee keepers, ready for immediate shipment. 40-page catalog for A. G. WOODMAN CO., Dept. M. F., Grand Rapids, Michigan.



Egg-o-hatch applied to eggs during incuba-ion strength-main the chick and weakens the shell. It supplies free oxygen absorbs carbon dioxide and makes brittle and porous the ani-main matter of the shell. The biggest thing ever offered to poultrymen. S0 test hatches also average of 86 per cent for Egg-o-hatch eggs and 81 per cent for eggs not treated, right in same machine. Fullstep sakkage, for 800 eggs, 50 cents at dealers or postpaid. Ask your dealer for Lee Poultry Library (5 books) free or send us 5 cents for mailing direct to you. GEO. H. LEE CO., 265 Lee Bidge, Ormans, Moh 5 books) free or send us 5 cents for mailing direct to you. **GEO. H. LEE CO.**, 265 Lee Bidg., Omaha, Nel \$6.00 Buys this Egg Carsina P IN CUBATOR with Brooder \$3,50. All complete, fully guaran-teed. Also 70 Fgg \$5,00, with Brooder \$7,50. Or-der now by Express, Circular Free. Wolverine Sales Co., Til Delaware Street, Grand Bapids, Mich. POULTRY Eggs for Hatching from pure bred White Plymouth Rocks and White Mammoth Pekin ducks, CHAS, KLETZLEN, Bath, Mich. FOR SALE Eggs from choice Barred Mrs. RAY G. BUNNELL, Eggs from choice Barred Mrs. RAY G. BUNNELL, Lawrence, Mich Pine Crest each, eggs special price \$5 per 16, attility \$12 per 100. MRS. WILLIS HOUGH, PINE CREST FARM, Royal Oak, Mich. RHODE ISLAND REDS and Plymouth Rocks Males South States according to age \$3 to \$5; P. R. hens weight 5 to 10 lbs., eggs 15 for \$1.50; 100, \$10; Mammoth Bronze Tom Turkeys 8 to 38 lbs. according to age \$5 to \$25, 10 eggs \$4. J. Morris 4 J. Barsan, Vassar, Mich. R. I. REDS, both combs. Chicks a strain in Michigan. Write for catalog. INTERLAKES FARM, Box 39, Lawrence, Mich. R. I. Beds and R. I. Whites. Both combs. Eggs for sale, also a few good cockerels. Good stock prices reasonable. O. E. Hawley, R.S. Ludington, Mich. S. C. Brown Leghorns, Heavy layers, Eggs 15-\$1.35, 30-\$2.50, 45-\$3.50, 100-\$7, prepaid by mail, FLOYD ROBERTSON, R. I, Lexington, Indiana SILVER Golden and White Wyandottes. A few good Golden and White cockerels, to spare at \$3. Eggs 15, \$2.50, 30, \$5.00. G. W. Browning, R. 2, Portland, Mich. Single Comb Black Minorca cockerols, sired by 101b, cock bird. A few more P.C. fall pigs. R. W. MILLS, Saline, Mich. S.C. White Leghorn hens, pullets, day old chicks, reasonable. Herbert Hammond, Williamston, Mich. WHITE Wyandottes. I have a fine lot of April and May hatching cockerels for \$3.00 and \$5.00 each. DAVID RAY, 709 Norris Bt., Ypsilanti, Michigan. W hite Wyandotte cockerels, good size, color. \$3.50; 3 for \$10, Reg. Swedish Select Oats free from smut \$1.60 per but, in 10 but, lots recleaned and bags free. VAN O. FARM, R. 1, Box 124, Hartford, Mich. While Wyandottes Chicks and eggs from a winter laying strain. Write for circular, INTERLAKES FARM, - - Lawrence, Mich. WHITE Holland Turkeys a limited number forsals. the greatest layers on earth, get acquainted with this wonderful breed. Riverveiw Farm, Vassar, Mich. M. B. Turkeys, Toulouse Geese and S. C. W. bex. Stamps appreciated. Chase Stock Farm, R 1, Marlette, Mich. Gray African Geese. Eggs \$1 each. Three fine trics to sell. Also good farm cheap. Mrs. TBUMAN FRENCH, R. 3, Ludington, Mich.





work. The offer our salaried men [handle , is] specially attractive to farmers. Address

The Michigan Farmer, Detroit, Mich.

442-26

#### POULTRY HOMESTEAD FARMS A Federation of Interests

A Word to the Farmer Poultry-men and Women of Michigan.

In almost every issue of the Farmer you will find some hing new in this space, and we ask you, therefore please to glance each week at what we have to say formestead Farms is working out a practical federa ion of the business and social interests of the pool iny farmers of Bloomingdale and vicinity, and which is to be a benefit also to the farmers of the state

**Pure Breed Practical Poultry** are Breed Practical Poultry we have; Barred, and Buff Plymouth Rocks; R.C. Rhode Island White Wyandottes; S.C. Black Minorcas; and R.C. White Leghorns; S.C. Brown and Leghorns; S. C. Anconas.

#### Day-Old Chicks

Day-Old Chicks from any of these breeds can be irmished, providing three weeks' time is given for thening. We can furnish almost an unlimited num-or of Barred Bocks, Rhode Island Reds, and White genorms. Do you want vigorous, naturally healthy ee farm-range poultry stock? We invite corres-ordence with poultry farmers who are looking for ock that will give eggs plentifully next winter. Eggs for Hatching

ggs from our Pore Breed Practical Poulary for set a, or in quantities for incubators, with fertility ranteed. We can furnish any number of Barree k, Bhode Island Reds, and White Leghorn eggs

#### Eggs for Broilers

lymouth Rock eggs in any quantity can be furnished or hatching Broiler chicks. On these we make a social price and a special guarantee. **Grown Fowls** 

We have yet for sale; 3 Barred Flymouth Rock cock-rels; 15 Single Comb Rhode Island Red Pullets with ac cockerel; 5 K. O. Khode Island Red Pullets; 6 Bar-d Rock Pullets or Hens with Cockerels; 1 Gray onloase Gander. If you are a poulty-farmer that wants practical im poultry stock, will you please write to us for our reular which briefly describes the poultry we offer on.

We have already come into a fine correspondence ith the ponitry farmers of Michigan, but we want hear from you; we want to place some of our Pure reed Practical Poultry on your farm. HOMESTEAD FARMS, Bloomingdale, Mich.

Baby Chicks from Standard Breed S. C. White Safe arrival guaranteed. Catalogue free. Book your order now for spring delivery. Wolverine Hatchery, Box 202, Zeeland, Mich.

Barred Rocks-EGGS FROM STRAIN with 15. Delivered by parcel post, prepaid. Circular free, FRED ASTLING, Constraint, Mich.

Barron English 200 egg strain White ter layers, large size birds, Hatching egg \$0 per 100. Chicks \$13 per 100. Guarantee satisfaction. Devries Leghorn Farms and Hatchery, box A. Zoeland, Mich.

Barred full blood stock prize-winning strain \$1.50 J. A. BARNUM, Union City, Mich. BARBON Strain S. C. White Leghons Bred to Lay Blong bodied vigorous stock. Eggs and Ohicks, prices right. Bruce W. Brown, R. 3, Mayville, Mich. Baby Chicks Young's Strain S. C. White Leghorn free range stock, safe arrival guarantee, cat alogue free. Knolls Hatchery, R.S. Holland, Mich

BABY Chicks. Bred-to-lay S. C. White Leghorns reals: Order direct from this adv. No catalog or cir-cular. Order direct from this adv. Cash In full with or-der. Hatch every Tuesday, beginning April 2. Sunny-brook Pouliry Farms. C. 6. Burrougtos, Prop. Hilbsdale, Mich. Buff Leghorn Cockerels, and a few Dr. WILLIAM A. SMITH. Petersburg. Mich.

Buff Orpingtons-Seventeen years. Best exhibition egg producing strain. Eggeor Baby Chicks. Gir-cular free. WILL SCHADT, Goshen, Indiana. Chicks, We ship thousands, booking orders now for spring delivery. free booklet. FREEPORT HATCHERY, Box 12, Freeport, Mich. Cockerels-From Chicago Coliseum winning stock. \$3 C& up "Ringlet" & Buff Rocks, both combs Reds, Span-ish Orpingtons; Wyandottes, Tyrone Poultry Farm, Fenton, Mich Choice Chicks April and May heavy breeds and Leghorns52 for \$0. Eggs per setting \$1.50; per 108 \$7:50. Crescent Egg Company, . . . Allegan, Mich Chicks and eggs, standard bred stock, Leghorns, Minor Ceas, Spanish, Rocks, Reds, Orpingtons, Wyandotte, Campines Boudans, Polish, Scotch Greys, Tyrone Poultry Farm, Fenton, Micl

**DAY-OLD CHICKS** of quality guaranteed to 1,500 miles. Eggs for Hatching at low prices. Bar. Rocks, S. C. W. Leg-horns, S. C. and R. C. Reds, W. Wyandottes, Buff and W. Orpingtons. Chicklet catalog.jfree. GOSHEN POULTRY FARMS, R-19 Goshen, Indian

DAY-OLD-CHICKS onng's Heavy Laying Strain S. C. White Leghorns .00 per 50, \$15.00 a hundred. Safe delivery guaranteed. mmediate shipments. Order now or write. DY L. DRUKKER, 711 Delaware St., Grand Rapids.

DAY OLD CHICKS 0,000 for 1918. 110 per 100 and up. Purebred. Hatoh right. Strong guarantee. 10 leading varieties atching eggs. Big brooder offer. Western Branch ugusta, Kansas. Free catalog. Stamps appreciated abers Reliabe Hatchery, 333 W. Fremont St., Fostoria. 0 Laybill S. C. W. Leghorns Large, great lavers. Pure white. Bargains in choice breeding hens now. Everfresh Egg Farm, Ionia, Mich.



Chicks that Live \$15 per 100 S. C. W. Leghorns Send for catalog. I SNOWFLAKE FOULTRY FARM, R. I, Grand Rapids, Mich. Fowlers Buff Rocks now at a \$21 for 15; St for 30; \$5,50 for 50; \$8,00 for 100. R. B. FOWLER. R. B. FOWLER. Tohn's Big beautiful hen hatched Barred Rocks good Jayers males & females \$ to \$5 each. Breeding pens 12. Sold on approval circulars photos, John Northon, Clare, Miel IMPROVE YOUR POULTRY ng's strain bred-to-lay S. C. White Leghorna t money makers. 100,000 baby chicks for 1918 at \$13 and up per 100. Satisfaction guaran-ite for free catalogue. W. VAN-APPLEDORN,

#### **Raising Rabbits for Profit** By G. A. BALDEN

THE MICHIGAN FARMER

tion of food stuffs. It is not necessary prices. to point out the rapidly increasing cost of the different food stuffs.

haps, about the high price of meats. Checkered Giants. These are the largand prospects of not having it at all, est and heaviest in the whole rabbit sooner or later, because the cattle and family. Color of the Flemish Giant is hog industry has decreased alarmingly. black, white, grey, in different shades, A total decrease of 115,005,000 in the and a fawn color grey similar to color world's meat producing animals is of the common wild cottontail. The shown in comparison of the present steel colors take the lead at present. with pre-war conditions, in a statement The main commercial breeds are the issued by the United States govern- Flemish Giants, Checkered Giants, Bel- paid me a very large percentage on the ment. This is a great figure and un- gium Hares and New Zealand Reds.



A Pedigree Flemish Giant Doe. less something is done towards produc-

ing more meat, the world may soon be facing a general meat famine. For Quick Meat Production.

One of the duties of the American the meats that can be raised quickly.

portant at this time. The domesticated rabbit heretofore has been too much overlooked as a commercial article of food. As with many other industries, it required war conditions to bring it to the front. It is my belief that the domesticated rabbit is the most economical meat producing animal in the world. Rabbits can be produced cheaper, pound for pound, than any other meat producing animal in the world.

Practical experience has demonstratabout six cents a pound and by using and a profit. the lawn clippings and other vegetation that would otherwise be wasted, the cost can be made even lower. Rabbits require a smaller amount of space ness is considerable less than that required in any other meat producing business. The supply can be greatly ed for the production of crops.

Food Value High. five per cent, beef fifty-five per cent, poultry meat. and chicken only fifty per cent. The interest ourselves in this important out it always means a severe handicap. duction. matter and get our friends interested The hopper feeding pays and causes The time to sell surplus hens is the

HERE has never been a time in and if you handle rabbits rightly it this nation's history, when there will not be long unitl you will have was greater need for the produc- meat to sell. You will find an open er to bend every energy to the produc- market for all you can produce at good

My own choice of the many different breeds of rabbits is the Flemish Giant, Millions of us are complaining, per- closely followed by the American

As a Fur Animal.

That the culture of the different varieties of rabbits is profitable, not only for the quantity of the cleanest, sweetest and most wholesome meat they provide, but for the skins as well, has been proven by many of the 30,000 persons engaged in the raising of these animals.

Few people really know the prominent part the rabbit plays in the commercial world. Furs are fashionable, and the supply of the expensive "real stuff" is getting so scarce that furriers have to look for substitutes, and the most useful and important has been found in the rabbit skin.

France was the first country to use these skins, factories having been built where the rabbit skins are transformed into fine imitations of expensive furs. Hundreds of thousands of rabbit skins enter these factories and leave as "Cony Seal," which is the name they money invested. I admit that there are known by in the market. There are many who have lost money in are also beaver, ermine, sable, (in dif- breeding them, and there will be many ferent colors and variety), mole, black more. Yet you will find it just the fox, red fox, chinchilla, and numerous same in every kind of business, but other imitations and fancy furs, "but the rabbit game in the right hands will people is to produce as never before, all rabbits." Rabbit skins yield large be a success. profits over there. Most of them are This brings us to the conclusion that That is why the food administration collected by rag and junk men, sent to the requirements needful to establish is calling upon the farmer to raise the factories where they are cured, one in the rabbit industry is simply more hogs, and that is why the domes- dressed, dyed and clipped and then im- love for the work, and business manticated rabbit industry is so vitally im- ported to this country, where they are agement. 

made up into furs of all descriptions and prices. France has a national industry in rabbit skins.

#### Rabbits Are Profitable.

A lady from the west, a Mrs. Sherman, tans and makes up the skins from her own rabbits. She wears a hat and muff from rabbit skins and has had her two-year-old son a coat made of the fur of the Himalayan rabbits and both look as well dressed as though they wore the most expensive of furs. This lady said in an inter-view on the subject: "Does it pay to raise rabbits? I don't know of anything else that gives the same return for the outlay. There is no question about the business being a profitable one. I have been breeding the Belgian Hare for several years and they have



A Checkered Giant Buck.

# Poultry Hints from the Round-Up

points which may be of interest to eat what they need for growth and poultry breeders not present at the then enjoy searching on the range for meetings. Among the points of value the remainder of their feed. On one are the following: False economy in farm a farmer adopted the hopper feedthe feeding of the flock is not patriot- ing method for his hogs and gave them ism and the hens should obtain enough a hopper filled with shelled corn and ed that the rabbit meat can be produc- of a balanced ration to enable them to tankage. The hens were on free range ed in unlimited quantities at a cost of produce the eggs to pay for their reed and soon found the hog hopper and en-

for the production of winter eggs. additional eggs to much more than Such breeds as the Rocks should be pay for the amount of feed taken from hatched in March and April. The Leg- the hog feeder. per animal, and the capital required to horns may be brought to maturity for establish one in a paying rabbit busi- winter egg production if they are hatched in April or May.

#### For Economical Breeding.

increased within a few months with- ommended for the economical growing new man thought he would save feed out requiring space that may be need- of chicks. In one experiment 114 out in the care of the flock and did save of 119 chicks placed under a coal-burn-feed to the value of \$150. During that ing brooder stove were raised to ma- time the owner lost \$500 worth of eggs Now, as to food value, rabbit meat turity. The scarcity of hard coal has according to his estimate, based on the yields eighty-three per cent of digesti- placed many poultrymen in doubt as results that he had made with the ble nutriment, which is more than any to their supply of coal for spring chick same sized flocks during other years other meat yields. Pork is the highest brooding but it is reported that the when they were given plenty of a balin nutriment of the meats sold at the fuel administration will make every anced ration to keep up egg producbutcher shops. It yields seventy-five effort to supply poultrymen with fuel tion. per cent of nutriment, mutton sixty- enough for their work in producing in summer. According to Prof. Phillips,

rabbit is the ideal meat producing ani- that do hatch than to increase the meat scrap will bring back from \$20 mal, and when the public shall have hatching. Equipment is necessary for to \$30 worth of eggs. Beef scrap, sour become more familiar with it, our sup- the production of poultry and a lack skim-milk, or tankage are necessary to ply of meat will be increased. Let us of equipment or an attempt to do with- growth in poultry and also in egg pro-

in it. Make a start and raise enough the chicks to grow normally into large first time that they are found to be "no R. 7, Holland, Mich. rabbits to first supply your own table, vigorous birds. Like the boy in the good." The early moulting hen is apt

HE address by Professor Phillips candy store the chick will not stuff at the Farmers' Round-up Insti- continually just because the abundanttute contained many practical ly filled hopper is present. They will joyed square meals. They soon laid Early hatched pullets are necessary as never before and produce enough

#### False Economy.

One instance was related of a young poultryman who was taken ill and had to turn his feeding work over to an-The use of the brooder stove is rec- other farmer without experience. The

summer. According to Prof. Phillips, It pays better to save the chicks \$5.00 invested in a good quality of

to be the poor layer and she should be white nodules which are filled with culled out. However, the late moult- a cheese-like substance. Very often ing hens are often sold on farms be- the other organs of the body have cause of their poor looks and this is a these nodules also. serious error. The early moulters, This disease is quite a contagious over-fat hens and runty specimens one, and is one which cannot under should be culled out in August in order our present knowledge, be cured. After to save feed and enable the remainder the disease reaches the stage where it of the flock to make better average can be diagnosed, the most practical

records. R. G. KIRBY. Ingham Co.

#### OATS FOR POULTRY.

grain, oats will probably fill a larger plenty of ventilation without Graught. part than ever in the raiton of the farm They should be properly fed to keep up flock. Oats that are boiled or soaked their vigor, and what is termed "good over night make a fine feed for hens. care" should be given the flock. The oats soften and swell and are much relished by the birds. Clipped must either be burned or buried so oats are used to advantage in feeding deep that animals cannot dig them up. young birds. The clipped oats are run Before carrying out these drastic through machines to remove the sharp measures, make sure that the birds, tips and part of the hull.

first week on dry rolled oats scattered you had better call a veterinarian. in the litter about every two hours. The sprouted oats furnish an abundance of appetizing green feed at a minimum expense. In using ground oats in the mash for laying hens it is not the winter should be managed so that necessary to sift out the hulls. Oats it will produce as much honey as poscan be fed dry to laying hens without sible during the coming summer. Since much danger, although some have the the sugar supply is limited on account impression that the sharp tips will of the demand abroad there is no dancause serious injury to the birds. We ger of over-production of honey for have never noticed any injury due to some time to come. Prices offered for feeding oats but undoubtedly they have extracted honey today are three times a greater feeding value if they are what they were a little more than a soaked for several hours or broiled be- year ago. Bees are worth giving the fore feeding.

#### Coal Ashes.

Are coal ashes hurtful to the hens? Some poultry journals claim they are. My hens like to eat the small pieces of slate in them and then wallow in the fine dust. Do you think wallowing in the dust would cause them to have scaly legs? W. F.

Coal ashes have not generally been found detrimental. We have, however, received reports from some who found their chickens looking for the small pieces of coal, and when it was available to them, egg production was limited.

chickens to dust in, provided they have strictions of the Food Administration a chance to get out where there is moisture.

ens constantly run in alkali soils.

We are sure that in moderation the use of coal ashes for dusting and scratching purposes will be all right.

#### Tuberculosis.

Tuberculosis. Last spring I had considerable trou-ble with my poultry. The flock as a whole looked good and laid good, but every little while a hen would dump, and although she ate well, kept getting lighter and weaker and at last would die. The droppings were rather loose and streaked with white, green and reddish brown. I set eggs from this flock and they hatched fine, but the chicks died in bunches from one to a dozen, without any apparent cause. chicks died in buildings from one to a dozen, without any apparent cause. They looked well and were hearty eat ers, but every time I went to the coop would find three or four dead. I fed fine chick feed for about two weeks and then coarse chick feed and wheat. I gave my flock a good poultry tonic and disinfected the hen house every week. I see indications of the disease this winter and one hen died in the same way last week. What is the trouble? Is there any connection be-tween that and losing the little chick? Would you advise setting eggs from the flock another year? L. F. W. Judging from the symptoms you give I greatly fear that you have tubercudozen, without any apparent cause. They looked well and were hearty eat-

This disease is quite a contagious way to eliminate it is to destroy the entire flock, thoroughly disinfect the coops and grounds and start again with healthy stock. With a new flock care should be taken to provide the On account of the high price of hens with sanitary surroundings and

In disposing of the flock, the bodies have this disease. If you do not feel Young chicks will do very well the confident of diagnosing this yourself,

#### BEES WORTHY OF MUCH CARE.

Every colony of bees that survives best of care, and colonies now in inadequate hives should be transferred POULTRY QUERY DEPARTMENT. to modern ones at fruit-blossoming time, be given plenty of room for brood rearing, and be provided with a Are coal ashes hurtful to the hens? storage of honey. Bees are the only agents capable of recovering the tons and tons of nectar that will be available from all sorts of flowers during the growing season. Without bees all this is wasted.

#### SURPLUS BREEDERS AND THE BACKYARD FLOCK.

Poultry production must be pushed vigorously. "One Hundred Hens on Every Farm," is the popular timely Coal ashes will not be harmful to slogan and fits in aptly with the reon the marketing of hens, effective until April 30. This regulation caught The scaly leg develops when chick- some poultry raisers with a surplus of breeding hens, although there is no surplus in the country at large, for the shortage of feeds and the high price of poultry has tempted breeders and the ers of small flocks to sell their hens. Even those inconvenienced by the restriction on the sale of hens can easily see the point of the regulation. If the hens are killed off the hundred-hen movement has little chance, nor will there be hens enough to supply the backyard flock for the man with the bit of land who is trying to make his own stronghold hunger proof. The pres-ent situation offers an opportunity to

Judging from the symptoms you give
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I greatly fear that you have tubercu-losis in your flock, as primary symp-toms of this disease are a great appe-tite and loss of weight. General weak ness, ruffling of the feathers, paleness of the comb, and in a great many cases diarrhoea, are also telltale symptoms.
A post-mortem examination will ena-ble you to tell whether the trouble is tuberculosis or not, more definitely.
The liver of a fowl affected with tuber-culosis is usually covered with small

# Automobile Accident Adjusted Out of Court

THE MICHIGAN FARMER

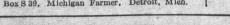
The boy driving the automobile of H. B. Burdick, of Saginaw, acci-dentally ran into and injured Fred-erick Brush, a boy of about five years of age, causing death. Mr. Burdick was insured in the Citizens' Mutual Automobile Insurance Company, of Howell, who took charge of the matter which resulted in a settlement satisfactory to all parties, upon March 20, 1918.

Mr. Burdick says: "I am more than pleased with the way that my case has been handled. It is a great relief to know that a matter of that kind can be turned over to experienced men for settlement. Mr. Robb took charge of the case immediately after the accident—witnesses were interviewed and statements taken. Mr. and Mrs. Brush were treated with courfesy and when the proper time came a settlement was made satisfactory to all. Many people have asked me what I think of auto-mobile insurance and I tell them mobile insurance and I tell them that I would not be without it, as no one can tell when an accident will occur, or when they will have a fire or a theft claim, and I know from my experience the past few weeks that no company could give better service than the company at Howell. The company is certainly in receipt former and the in good financial condition and the injured parties know that they can get a fair settlement when they make reasonable claims, and the make reasonable claims, and the officers have had enough experience to know what to do under certain conditions. No automobile owner should be without a policy in this large Mutual Company, as the rate is very low and the service good."





FOULTRY SUPPLIES and equipment. meed from legbands to buildings. 40 page free state log quotes lowest prices on hundreds of articles. GEORGE B. FEERIS, 634 Shirley Street, Grand Rapids, Mich-WANTED: Experienced farmer, single, work-ing foreman by the year. Box S 39, Michigan Farmer, Detroit, Mich.

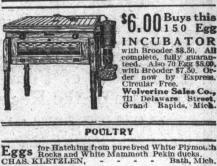




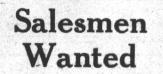
You furnish the Raw Hides, we do the dressing, tanning and you some valuable information on furs.

W. W. WEAVER, Reading, Mich.

Egg-o-o-hatch applied to eggs build be and makes britte and porous the an-absorbs carbon dioxide and makes britte and porous the ani-mal matter of the shell. The biggest thing ever offered to poultrymen. S0 test hatches abow average of 98 per cent for Egg-o-hatch eggs and 81 per cent for eggs not tracted, right in same machine. Full size package, for 600 eggs, 50 cents at dealers or postpaid. Ask your dealer for Lee Poultry Library (5 books) free or send us 5 cents for mailing direct to you. d us 5 cents for mailing direct to , and a solo an GEO. H. LEE CO.,



FOR SALE Eggs from choice Barred Mrs. BAY G. BUNNELL, Lawrence, Mich. Mrs. RAY G. BUNNELL. Pine Crest white Orpingtons, hens and pullets \$3.00 Siz per 100. MRS. WILLS HOUGH, PINE OBEST FARM, Royal Oak, Mich. RHODE ISLAND REDS and Plymouth Rocks Males weight 5 to 12 lbs, according to age \$3 to \$8; P. R. hene weight 5 to 10 lbs, eggs 15 for \$1.50; 100, \$10; Mammoth Bronze Tom Turkeys 8 to 38 lbs. according to age \$6 to \$25, 10 eggs \$4. J. Morris 4 J. Barsan, Vassar, Mich. R. I. REDS, both combs. Chicks & eggs. Most popular strain in Michigan. Write for catalog. INTERLAKES FARM, Box 39, Lawrence, Mich. R. I. Reds and R. I. Whites. Both combs. Eggs for prices reasonable. O. E. Hawley, R.3, Ludington, Mich. S. C. Brown Leghorns. Heavy layers. Eggs 15-\$1.35, 30-\$2.50, 45-\$3.50, 100-\$7. prepaid by mail. FLOYD ROBERTSON, R. 1, Lexington, Indiana SILVER Golden and White Wyandottes. A few good Golden and White cockerels, to spare at \$3: Eggs 15, \$2.50, 30, \$5.00. G. W. Browning, R. 2, Portland, Mich. Single Comb Black Minorca cockerels, sired by 101b, cock bird. A few more P. C. fall pigs. R. W. MILLS. Saline, Mich. S.C. White Leghorn hens, pullets, day old chicks, reasonable. Herbert Hammond, Williamston, Mich. WHITE Wyandottes. I have a fine lot of April and May hatching cockerels for \$3.00 and \$5.00 each. DAVID RAY, 709 Norris St., Ypsilanti, Michigan. White Wyandotte cockerels, good size, color. \$3.50; 3 for \$10. Reg. Swedish Select Oats free from smat \$1.60 per bu. in 10 bu. lots recleaned and bags free. VAN O. FARM, R. 1, Box 124, Hartford, Mich. White Wyandottes Chicks and eggs from a winter laying strain. Write for circular. INTERLAKES FARM, Lawrence, Mich. M. B. Turkeys, Toulouse Geese and S. C. W. Leghorn cockerels. Also Berkshire, both sex. Stamps appreciated. Chase Stock Farm, R 1, Marlette, Mich.



Gray African Geese. Eggs \$1 each. Three fine trios to sell. Also good farm cheap. Mrs. TBUMAN FRENCH, R. 3, Ludington, Mich.

We pay salary to good subscription] getters, who | can devote their entire time to our work. The offer our salaried men handle ( is] sespecially attractive to farmers.

Address The Michigan Farmer, Detroit, Mich.



Orchard and Garden should have bees. We can start you. Sections. Foundations. Bee Ve complete line of supplies for bee keepers, ready for immediate shipment. 40-page catelog fr A. G. WOODMAN CO., Dept. M. F., Grand Rapids, Michigan. Bee Veils



444-28

Farmers' Clubs Grange. Associational Motto: "The skilled hand with cultured consequence than the farmer is of more asset." Our Motto:—"The farmer is of more consequence than the farm, and should be first improved." Associational Sentiment: "The Farmer. He garners from the soil the primal wealth of nations." BUSINESS POSSIBILITIES OF THE sing. FARMERS' CLUB. Secretary—Jennie Buell, Ann Arbor. Treasurer—Frank Coward, Bronson. As a social and educational factor COUNTRY LIFE-ITS PAST, PRESin the community the average Farmers' Club has been a decided success. From this standpoint alone the organi-From this standpoint alone the organi-zation has been well worth while to at the Kent County Grange). every community where it has been developed. But the Farmers' Club has Grance. Our pioneer parents in those business possibilities which in most days had not time to think about such communities where Clubs have been things, but they laid the foundation organized have been entirely neglect- and blazed the way for all that our ed. Let us cite one example to illus- country can boast of today. They felltrate the business benefit which might ed the trees, hewed them out and built easily accrue to the farmers in any their log cabins and the old-fashioned Club community through the initiative fireplace with the kettle hanging over of the organization. Cooperative enterprises have had a and the old-fashioned johnny-cake bak-

rapid development in Michigan in re- ed on a board are pictures that my cent years. These enterprises have memory will ever retain. The lights developed along many lines, but have were tallow candles and some didn't met with almost universal success even have them. What a difference along one line in particular which now. The men did their mowing, reapmight be easily promoted in any com- ing and raking and threshing by hand. munity through the medium of the But today we have the binder, steam Farmers' Club.

associations organized in Michigan for eer wives could ride to meeting in the purpose of marketing the live stock lumber wagons drawn by ox teamsof their members have been universal- they did not have electric cars and auly successful. They have saved for tomobiles. their members many thousands of dollars which would otherwise have been city of the future: "It may not be a absorbed by the middlemen in this line horseless city, but the great business of trade-the drovers who add nothing of the warehouses, merchants, manuto the value of the stock and perform facturers and wholesalers will be tranno service which could not be as well sacted on electric trucks, and most of performed by any man in the commu- the pleasure vehicles will be driven by nity delegated to act for the members electricity; the work will be done by of a cooperative organization, or for electricity; we will be kept warm in that matter, of a Farmers' Club, where winter and cool in summer by electhe membership is not too scattered. tricity and nearly everything in this

is especially adapted to promotion by in a measure to electricity." such an organization as the local Farmers' Club, for the reason that it it is today, buildings lighted by elecrequires neither capital nor equipment tricity, and washing machines, churns, for successful operation. All that is re- separators run by the same. We have quired is the appointment of a trust- electric fans, furnaces instead of three worthy person to direct the enterprise or four stoves, hot and cold water, and and under the favorable condition of this beats the old oaken bucket. A practically universal telephone service great many farmers have modern which exists in the average club com- homes so that the country fellow can munity, the direction of the enterprise have just the same as his city cousins. will take very little of his time. A small percentage on the business done will supply the funds to amply remu- woman's work. nerate him for his services.

the members will many times outweigh the effort required to inaugurate she milks the cows. such an enterprise in any Club community. Some readers may say that they harvest she helps in the field. do not make a specialty of live stock, that their sales of stock are compara- she makes the shells, runs the troltively small and that for this reason leys, handles the baggage and drives they are not especially interested in the taxis. this proposition. But this class of farmers are just the ones who will be most benefited by such a business ac- free delivery route in the United tivity. The commercial feeder of live States is credited to Michigan. Two stock is able to sell his product to far routes were laid out from the village better advantage than is the farmer of Climax, in Kalamazoo county, and with whom live stock is but a small the first trips made in December of side line, because he has more of it 1897. Commemorating the twentieth and is better acquainted with market year of this service an appropriate values.

the neucleus of a cooperative live stock tional and State Governments were shipping association in your commu- represented upon the program as were nity? Why not take advantage of various civic and fraternal organizathis business opportunity which the or- tions. In acknowledgement of the ganization offers for the taking? Think prominent part played by the Grange it over and talk it over at your next in securing this wonderful branch of meeting. Get together on this busi- government service, the State Grange ness proposition and make it go. It was invited to place a tablet on one will pay as big dividends in cash as face of the monument, and the Grange the other activities of the Club have was given a prominent part in all the

STATE GRANGE OFFICERS.

Master-John C. Ketcham, Hastings. Overseer-C. H. Bramble, Tecumseh. Lecturer-Dora H. Stockman, Lan-

ENT AND FUTURE.

Years ago we never heard of a it suspended by pot hook and crane thresher, side delivery rake, hay load-The cooperative live stock shipping ers and tedders, tractors, but the pion-

A writer draws this picture of the This form of cooperative enterprise life of work and pleasure will be owing

Let us look into the farm home as

And the men are beginning to learn: That any work that needs doing is a

When the men are late coming home The benefits which will accrue to from market she does the chores When they are busy with the hay,

When an extra hand is needed in the

When the men are in the trenches

The establishment of the first rural monument was unveiled at the main Why not use your Farmers' Club as corners of Climax on July 26. The Naexercises of the day.-J. C. Ketcham.

MARCH 30, 1918.

#### THE MICHIGAN FARMER



446-30

# Markets.

#### **GRAINS AND SEEDS**

March 26, 1918. WHEAT.—We can add nothing to what has already been said about this market in past issues. There are few-er bushels of wheat at primary mar-kets and in farmers' hands than there has been for decades past at this seakets and in farmers' hands than there has been for decades past at this sea-son of the year. We shall have to make use of a larger quantity of sub-stitutes in order to supply the Ameri-can people and meet our obligations in Europe. A year ago the local market was paying \$2.04 per bushel for No. 2 red wheat. Present prices are: No. 2 red.......\$2.17 No. 2 white....... 2.15 No. 2 mixed....... 2.15 CORN.—Our reports show that corn continues to arrive at the big markets

CORN.—Our reports show that corn continues to arrive at the big markets in large quantities. Last week the vis-ible supply showed an increase of 3, 329,000 bushels. The country now has a visible supply that is nearly 4,000,000 bushels greater than the quantity in sight one year ago. Price changes are not consistent throughout the country. As for example, our reports from Chi-cago show a decline of ten cents on Monday, whereas Detroit values were 

No.	3	corn\$1.70	
No.	3	yellow 1.80	
No.	4	yellow 1.70	
No.	5	yellow 1.40	
No.	6	yellow 1.30	
No.	4	white 1.75	

The latest wire from Chicago shows that no No. 2 and No. 3 yellow corn is being sold, while No. 4 brought \$1.55@ 1.62, and May futures \$1.25%. OATS.—While news from various

parts of the country tells of fairly lib-eral stocks of this grain at primary, markets and country elevators, the de-mand does not remain long satisfied at mand does not remain long satisfied at any time, even though heavy selling is frequently reported. Domestic con-sumers are using more oats than ever, while foreigners are obliged to take the grain as rapidly as it is possible to ship it to Europe. War news had some effect on the trading here this week. We can see no reason why the prices should not be maintained somewhere near the present range of values, for a short time at least. Our records show that standard oats were quoted at 69c per bushel here one year ago. Detroit quotations for cash oats are:

# 

**RYE.**—We note that buyers are again seeking supplies of this grain, which fact with limited supplies, caus-

again seeking supplies of this grain, which fact with limited supplies, caus-ed values to advance over quotations of a week ago. Present Detroit price for cash No. 2 is \$2.80 per bushel. Chi-cago's price for same grade \$2.91. **BEANS.**—Reports to us show that the authorities are ready to issue per-mits freely to canning companies for the canning of all wet beans that can be secured. This should open the way 'to the bean jobbers of this state to es-tablish a satisfactory market for the large quantities of beans which have been frosted but which are suited for human consumption. Unless this is done, farmers will be obliged to use these beans for stock feed. The job-bers can save the day if they will. At Detroit the latest quotation for cash beans is \$12.25 per cwt. Our Chicago report shows a tendency toward easi-ness on that market, with offerings in fair supply. Michigan, hand-picked pea beans are quoted there at \$13.00 13.25 for fancy, red kidneys \$14.500 15, do, fair to choice \$12013 per cwt. pea 13.25 13.25 for fancy, red kidneys \$14.50@ 15, do. fair to choice \$12@13 per cwt. At Greenville farmers are receiving

\$10.75 per cwt. PEAS.—Our Chicago letter indicates rather dull market for this product, with field peas quoted at \$7.50 per cwt SEEDS.—This market is stronger SEEDS.—This market is str and higher with prices as follows stronger

ing price of wheat mill feeds, and that the food administrator at Lansing will receive complaints and promptly inves-tigate all cases of exorbitant prices. This announcement further states that a new schedule of margins has been established which should bring all feed established which should bring all feed to the consumer at a maximum of \$4.50 over the mill price for the feed, which in the case of bran has already been established at 38 per cent of the cost of one ton of clean wheat at the mill, with differentials for the grades of wheat mill feeds. On this basis where wheat costs the miller \$2.10 per bushel the carload price at the mill for where wheat costs the miller \$2.10 per bushel the carload price at the mill for bran would be \$26.60 per ton, or \$27.10 in less than carload lots. The maxi-mum for bran according to the above announcement should therefore be at \$31.10 per ton in carload lots, or \$31.60 in less than carload lots, and for mid-dlings \$9 more per ton than for bran. Where higher prices than this are ask-Where higher prices than this are ask-ed, the case should at once be reported to the Food Administrator at Lansing, with all details for investigation. Since to the supply of bran is very low, dealers are selling in small lots, usually 100

are selling in small lots, usually 100 pounds, in order to give each customer a portion of the supply. Other Feed Prices.—In 100-pound sacks jobbing lots: Cracked corn \$76; coarse corn meal \$75; chopped feed \$56 per ton. HAY.—Demand is well sustained. Prices in carlots at Detroit are: No 1 timothy \$2550@27

Prices in carlots at Detroit are: No. 1 timothy.....\$25.50@27 Standard timothy ....\$25.50@26 Light mixed .....25.50@26 No. 2 timothy.....\$24.50@25 No. 1 cloyer.....\$24.50@25 Pittsburgh.—Demand is less urgent, according to our correspondent, buy-ers holding off anticipating a lower market. Arrivals more plentiful; mar-ket dull and lower.

	and lower.
No.	1 timothy\$31.00@31.50
No.	2 timothy 29.00@30.00
No.	1 light mixed 29.50@30.50
	1 aloven mixed 20 50@31 50

No. 1 clover mixed 30.50@31.50 No. 1 clover..... 30.50@31.50 STRAW.—In carlots on track at De-troit: Wheat and oat straw \$11.50@ 12; rye straw \$12.50@13.

#### FRUITS-VEGETABLES

(Quotations furnished by the U. S. Department fo Agriculture, Bureau of Markets, Detroit Office).

	File.
Detroit (steady)	.\$1.45@1.50
Cleveland (slow)	. 1.50
New Orleans (steady)	. 1.60@1.75
Birmingham (fair)	. 1.75
Atlanta (weak)	. 1.75@1.85
Memphis (steady)	. 1.25@1.75
Cincinnati (fair)	
Pittsburgh (fair)	
Columbus (weaker)	. 1.55
Washington (weak)	. 1.75@1.90
Indianapolis (weaker)	. 1.25@1.35
Chicago (weak)	75@ .80
Around Greenville the f	
receiving 90@95c ner cwt.	In Wiscon-

Around Greenville the farmers are receiving 90@95c per cwt. In Wiscon-sin 50@60c; in New York state \$1.10. From these wires it is readily apparent to our readers that the market situa-tion in the potato deal is anything but satisfactory to the producer. APPLES.—The movement of apples, according to the last wires from the various northern markets, is only mod-erate with prices about steady with previous weeks. Baldwins sold in De-troit on Tuesday at \$5 per bbl, while the same variety from this state brought \$5.50 in Chicago. There are comparatively few stores of apples in this state remaining in possession of growers. growers.

#### DAIRY PRODUCTS

BUTTER.—Recent declines resulted in greater interest from buyers, and the market is firmer. Fresh creamery firsts are quoted at 39½c; fresh cream-

dealers shall not purchase, ship, sell or negotiate the sale of any live or freshly killed hens or pullets between February 11 and April 30 of this year. February 12 and 10 and 12 and 12

good 31c

EGGS .- Market is well supplies and closes and lower. Fresh firsts 36c. Chicago.—Receipts are liberal and offerings not so well taken up as for-merly. Fresh Michigan firsts 34<sup>1</sup>/<sub>4</sub>(*m*) 34<sup>1</sup>/<sub>2</sub>c; ordinary firsts 33@34c; miscel-laneous lots, cases included 33@34c per dozen.

#### WOOL

Our reports from seaboard markets show that the wool situation continues to occupy the same strong position it has held for a long time back. A slightly easier feeling has been caused slightly easier feeling has been caused however, by the promise of a shipment of 10,000,000 pounds from Australia. On the other hand, we have heard from producing states in this country, and growers predict that the yield will be light this year, due to the feed situa-tion the past winter. This shortage is likely to more than overcome the in-crease from the larger flocks now owncrease from the larger flocks now own-ed by American farmers. Seaboard prices for fleeces ranged from 55@85c last week.

#### **GRAND RAPIDS**

The egg market opened Easter week with prices at 35@36c. The potato market continues very slow and unsat-isfactory, with prices for U. S. grade No. 1 at country loading points for the bulk round white types at 75@85c. Cabbage is selling around \$3 per cwt. The mills are quoting grains as fol-lows: Wheat \$2.09; rye \$2.40; barley \$1.50; corn \$1.80; oats 98c.

#### LIVE STOCK

#### BUFFALO.

BUFFALO. March 25, 1918. Cattle.—Receipts 100 cars; market steady; best shipping steers \$13@14; fair to good \$12.50@12.75; plain and coarse \$11.75@12.25; native yearlings \$12.50@13; best handy steers \$11@ 11.50; fair to good kind \$10@11; handy steers and heifers, mixed \$10.50@11; light butcher steers \$10@10.50; west-ern heifers \$10.50@11.25; state heifers \$8.50@9.50; best fat cows \$10@11; butcher cows \$7.50@8.50; cutters \$6.50 @7; canners \$5@6; fancy bulls \$10.50 @11; butcher bulls \$8.50@9.50; com-mon bulls \$7@7.50; best feeders 900 to 1000 lbs, \$9@10; medium feeders \$8.50@9; light common \$7.75@8.50; stockers \$8@9; best milkers and springers \$100@150; mediums \$75@ 100; common \$50@60. Hogs.—Receipts 40 cars; steady; heavy \$18.40@18.60; yorkers \$18.85@ 19; pigs \$18.25@18.50. Stockers \$18.25@18.50. Market and Lambs—Receipts 25 cars; strong; top lambs \$19.25; yearlings \$17; wethers \$14@15; ewes \$13.50 @14. Calves.—Receipts 3000; market is

@14

Calves.—Receipts 3000; market is \$1.50 lower; tops \$19.50; fair to good \$16@18; fed calves \$7@9.

#### CHICAGO.

#### March 25, 1918.

Our special representative at the Chicago Stock Yards reports: Cattle.

Receipts.

ery extras 40½c. Chicago.—Trade in all grades fairly pretty good lots taken at \$13 and up-good. Creamery extras at 41c; extra ward, while medium grade steers sell good. Creamery extras at 41c; extra ward, while medium grade steers sell at \$12.60 and over and down to \$9@ 

240 pounds.

#### Sheep.

Horses.

The market is unchanged, with light receipts and a limited demand, some mules and cavalry horses selling for war purposes. Prices are unchanged, with inferior horses offered at \$60@100 and sales of the better class at \$150 @265.

#### LIVE STOCK NEWS.

E. P. Hall, of Mechanicsburg, Ill., the widely known veteran stock feeder and exhibitor of champion fat beeves in the International Live Stock Exposition in Chicago every year, says that he has now in his feed lots 165 head of

he has now in his feed lots 165 head of the fanciest doddie babies he has ever owned. They are from Illinois and Iowa herds, and from this choice col-lection will come the Hall contribution to the 1918 International. An experienced trader points out that it is good business policy to pur-chase springy cows of a beef breed, such cows selling at the present time for \$1 per 100 pounds below what they would cost otherwise, the reason for this being their condition. The trader also points out that where such cows are purchased by farmers, the calves can be vealed at around \$15, while the farmers can fatten the cows on cheap feeds and obtain fair profits.



THE MICHIGAN FARMER

#### THIS IS THE LAST EDITION.

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

DETROIT LIVE STOCK MARKET.

Thursday's Market. March 27, 1918.

<text><text><text><text><text><text>

Receipts 1140. Market steady to 25c higher than last week. Best \$17; oth-ers \$8@15. Sahdel, S. B. & G. sold Rattkowsky 43 av 140 at \$17(0, 3 av 170 at \$19, 10 av 116 at \$17, 2 av 120 at \$17. 2 av 135 at \$19, 4 av 155 at \$19; to Burn-stein 20 av 135 at \$15, 4 av 140 at \$18; to Shipiro 8 av 140 at \$17, 8 av 125 at \$15, 12 av 160 at \$18.50; to Goose 11 av 150 at \$17.50; to Parker, W. & Co. 2 av 195 at \$13.50, 4 av 130 at \$17.50, 2 av 140 at \$18, 16 av 150 at \$17, 25, 3 av 155 at \$16, 7 av 135 at \$17, 3 av 140 at \$12, 3 av 130 at \$15, 5 av 170 at \$17.50; z av 120 at \$11, 4, av 140 at \$17.50; z av 120 at \$11, 4, av 140 at \$17.50; z av 120 at \$11, 4, av 140 at \$17.50; z av 120 at \$17, to Burnstine 4 av 150 at \$17.50, 7 av 130 at \$14, 2 av 130 at \$10. McMulien, K. & J. sold Thompson 2 av 170 at \$17, 3 av 150 at \$17, to Burnstine 10 av 145 at \$17.50, 8 av 140 at \$17.50, 5 av 160 at \$17.50, 8 av 150 at \$17, 4 av 145 at \$17.50, 8 av 150 at \$17, 4 av 145 at \$17.50, 8 av 150 at \$17, 4 av 145 at \$17.50, 8 av 150 at \$17, 50, 5 av 160 at \$17.50, 8 av 150 at \$17, 50, 5 av 160 at \$17.50, 8 av 150 at \$17, 50, 5 av 160 at \$17.50, 8 av 150 at \$17, 50, 5 av 160 at \$17.50, 8 av 150 at \$17, 50, 5 av 160 at \$17.50, 8 av 150 at \$17, 50, 5 av 160 at \$17.50, 8 av 150 at \$17, 50, 5 av 160 at \$17.50, 8 av 150 at \$17, 50, 5 av 160 at \$17.60, 8 av 150 at \$17, 50, 5 av 160 at \$17.60, 8 av 150 at \$17, 50, 8 av 140 at \$17.50, 8 av 150 at \$17, 50, 8 av 140 at \$17.50, 8 av 150 at \$17, 50, 8 av 140 at \$17.50, 8 av 150 at \$17, 50, 8 av 140 at \$17.50, 8 av 150 at \$17, 50, 8 av 140 at \$17.50, 8 av 140 at \$17.50, 5 av 160 at \$17.60, 8 av 150 at \$17, 50, 8 av 140 at \$17.50, 8 av 140 at \$17.50, 5 av 160 at \$17.50, 8 av 150 at \$17.50, 5 av 160 at \$16.50; to Hammond, S. & Co. 1 cutter wgh 940 at \$7.50. McMullen, K. & J. sold Costello 1 cow wgh 720 at \$8.25; to Bray 1 cut ier wgh 720 at \$8.25; to Bray 1 cut ier wgh 720 at \$8.25; to Bray 1 cut ier wgh 720 at \$8.25; to Hammond, S. & Co. 1 cutter wgh 940 at \$7.50. McMullen, K. & J. sold Costello 1 com \$18,

\$6@8.50. Brwin, S. & J. sold Parker, W. & Co. 55 clip lambs av 95 at \$13, 135 wood lambs av 83 at \$17.75; to Wilson & Co. 237 clip lambs av 70 at \$15.25, 15 do av 55 at \$14.

55 at \$14. Bishop, B. & H. sold Parker, W. & Co. 57 lambs av 75 at \$13.50; to Mich. B. Co. SI do av 72 at \$17.75. 44 do av 100 at 18; to Sullivan P. Co. 40 clip lambs av 80 at \$-450, 13 do av 75 at \$1450; to Hammond, S. & Co. 19 do av 39 at \$17.25; to Mich. B. Co. 70 do av 75 at \$18.25, 63 do av 75 at \$18.25. Sandel, S. B. & G. sold Nagle P. Co. 24 lamba av 83 at \$17.25; 34 lambs av 83 at \$17.25.

Ha Receipts 4710. Market dull on pigs and 40c lower at \$16.50@17.25; mixed grades strong at \$17.60@17.75.

DO YOU WANT HELP ON YOUR FARM?

Hon A. B. Cook, Federal Farm La-bor Director for Michigan, informs us perienced in dairy farming or general farming who would be glad to accept positions on Michigan farms. If in need of help write Mr. Cook at the Agricul-tural College, East Lansing, without delay, giving him some idea of the kind of man you desire.



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es, Seeders, Stalk Cu Tractors, Farm Truck gons and Stephen ant Six Automobile

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more days a year—no matter how large or small your farm or what crops you grow. This is because the Moline-Universal is built to fit the farm and every operation on the farm. It is not limited to a few operations, nor to certain classes of work. The Moline-Universal will do anything any other tractor will do and in ad-dition an infinite variety of work impossible for any other tractor. With the Moline-Universal one man can plow, harrow, plant, cultivate, mow, harvest and handle all the belt jobs on any average farm. You can find work for it every day in the year.

By equipping it with a rear carrying truck, the Moline-Universal is converted into a fourwheel unit, to which any implement on the

farm may be attached in the ordinary way. Every day owners are doing seemingly impos-sible things with the Moline-Universal and adapting it to special work. You can do the same. If for no other reason than the fact that the Moline-Universal will do more and better work and each be kent busier on any form work and can be kept busier on any farm than any other tractor, it is your "best buy."

#### A Real One-Man Outfit

But the greatest advantage of the Moline-Universal is that one man controls both tractor and implement in all operations. You sit on the seat of the implement, where you must sit in order to do good work, and control the entire outfit. This means that you can farm more land than was ever before possible, with either horses or tractor. If there ever was

MOLINE PLOW

a time when it was necessary to increase a man's individual efforts, that time is now.

E. B. Jacobs of Carthage, Mo., says: "My son with the Moline-Universal Tractor has performed the work of six horses and two men in the same length of time."

Harry Cook of Davenport, Iowa, a Moline-Universal owner, says: "I was able to do all my work alone, even harvesting, something I never did before."

#### Astonishing Pulling Power

The wonderful versatility and one-man control of the Moline-Universal are due to its two-wheel construction. It attaches direct to the implement and forms one compact unit. Its astonishing pulling power is the result of placing all the weight on the two big drive wheels-all of it goes into the pull. There is no dead weight to carry around. That's why the Moline-Universal, weighing only 2850 pounds, can pull as much as tractors weighing from 1500 to 2000 pounds more; does not pack the soil and requires the least amount of fuel for operation; turns in a 16-ft. circle and backs as readily as it goes forward.

COMPANY, Moline, Ill.

16-ft. circle and backs as readily as it goes forward. And remember when you buy a Moline-Universal you have a tractor that is the crowning achievement in a half century of manufacturing experience, built by a company of unquestioned integrity who have a world wide repu-tation as makers of the very highest grade of farm implements. With such backing as your guarantee of service, the Moline-Universal is ready to solve your farm help problem as it has done for thousands of farmers in all parts of the world.

#### Your Tractor is Ready

Act now-let the Moline-Universal help you this spring. Write for name of your nearest Moline dealer and *free* booklet "Tractor Farming" showing actual photo-graphs of the Moline-Universal doing all sorts of farm work, also letters from owners.