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

DETROIT, MICH., SATURDAY, SEPTEMBER 21, 1918

# arrying Ideas to Place of Actio

ties where new experts have been hirfuss should be made over something liness and Enjoyment. most prosperous farmers point to the

against his uncle, who owned the property. "You're one of these farm doctors, eh!" he said; and the door of his mind seemed to shut with a snap. "Well, some farmers may be willing to pay you to come round and show them how to run their farms, but I bought this farm when it was a stumpfield and never had anyone come round and tell me how to run it. If you fellows know so much, why don't you buy a farm and tend to your own business instead of going about the county tending to other people's business? How much is there in what you claim anyway? How do we know how much of it is sense and how much just

Putting the Idea Across.

"Well, my friend," I replied, "the answer to your question depends upon the farmer who wants help and the ability of the expert to give him this help. No farm expert on earth can help the farmer who does not believe in efficiency on the farm, or who is unwilling to give his suggestions a fair and impartial trial before condemning his teachings. No matter how well a prescribed system of management may work in a given case, there is always the farmer at the bottom of it, who must adjust it to his conditions and adapt it to the means at hand. Systems of efficient farm management that will prove adapted to all farms do not exist. There is no universal tonic that will help out all run-down farms. The successful system must be developed to meet the conditions on the farm where it is in operation. If an expert tries to carry a system of farming from one locality to another be-

FEW farmers believe in the county Agent May Succeed in Coaxing growing, as well as a paradise of farm problems, whereas the others and Jones' Ideas to Travel Over the High-friendliness and enjoyment, but it can never be done unless this wisdom is a passing fad. In some of the counties where new experts have been hirder to the counties where new experts have been hirder. What I am ed, wonder is expressed that so much His County a Paradise of Farming as Well as Friend- trying to do is to give some of your

am trying to do in this county is to ory of procedure. This summer when visiting a farm get in an available form the best of

"There is wisdom enough in this

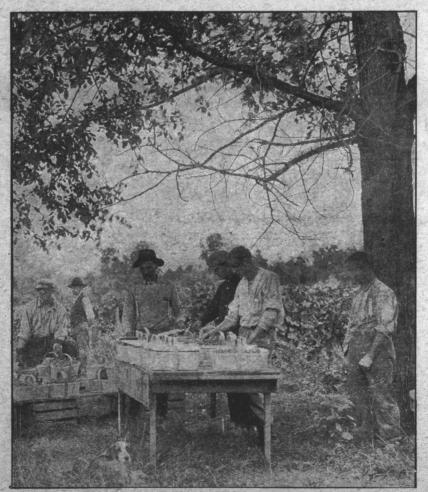
and Jones' ideas away and coax them to travel over the highway of human minds and human hearts to the place methods of efficiency on their own fore making a careful study of condi- with the mistakes each of you have of action. You and Jones owe it to farms, where they have been in oper-tions of soil and climate his ability made so far as possible eliminated, your county and to your country to ation for years. So with all the ex- may well be questioned. The outside Then I can go over into other parts of tell how you have produced more planation and discussion, the subject expert may be able to give sound ad- the county and help other men who pounds of pork and more tons of alof county agents is surrounded by vice concerning some particular phase are conducting business in a less effi- falfa to the acre than Smith and of improving a farm, such as dairy cient manner. Some of your methods Green. It is your patriotic duty to In these times of labor-shortage and management, poultry-keeping or lines may be perfectly adapted to their con- give your best thoughts, ideas and high prices for certain farm products of specialized crop growing, but it is ditions and others may be quite un- plans, that working together, we shall the business farmer is at sea to know a mistake for him to attempt to show suited. So you see intelligent work on create in some of the less successful just how to put the efficiency idea into the farmers in a strange part of the my part will give these men access farmers a working belief in their own successful practice on his farm. He country how to improve their methods. cheaply to the dearest things in the capacities, and a practical determinahas to read the better class of agri-"In your own case, Mr. Brown, it is world; real agricultural experience. It tion to help win the war. This is a cultural publications since the idea generally conceded that you have been is wrong to deny Smith and Green a part of your duty as a citizen, and as became prominent. He has followed unusually successful in your farming. knowledge of the good things that you a part of my duty as your county the editorials and articles, and knows Your farm and your buildings show and Jones have done only a few miles agent I am going to arrange for you instances where it has proved bene- that you have conducted your business from them. My business is to spot and Mr. Jones to help out our meeting ficial, or the contrary for other farm- along practical lines. You and Mr. things that may be useful for men over in Clifton township by giving ers. Now he would like to know what Jones have been recognized as the like Smith and Green, rather than to short talks on pig feeding and alfalfa it can do in his own type of farming. best farmers in your respective town- tell you and Jones how to run your culture. You have admitted your suc-Also he wants to know that if he em- ships. Each of you have maintained business; that gives them something cess with pigs; Jones says that he has ploys an expert that he is securing an a good plan of operation, and what I far more valuable than a general the- no trouble securing a good stand of alfalfa."

"I am sorry, young man, but I never operated by a young man I ran up what you and Mr. Jones have done country to change it into a paradise of made a public talk in my life, but if I can tell men like Smith and Green how to raise more and better pigs to feed our boys over in France I'll be mighty glad to help them out. Jones will be there with me to tell them about his alfalfa. I'll guarantee his presence. They don't tolerate slackers over in his neighborhood."

Vary Systems to Meet Conditions.

In going round among farmers one meets many different problems and finds many sources of loss that are consuming the profit from the other lines of farm production. In one case a large dairy farm, where special milk was being produced, was buying excessive amounts of rich grain feeds. The herdsman had personal preferences, and the owner added new kinds of feed from time to time. Some kinds were better than others. If a dealer could get hold of some new kind of mixed feed with a high-sounding name the owner was sure to give it a trial. The first thing to do on this farm was to cheapen the rations. After conducting feeding tests for several weeks we revealed a source of loss of more than \$4.00 a day in feeding eighty cows. It not only revealed the fact that much of the purchased feed was composed of the elements that were contained in excessive quantities in the home-grown feeds, but it showed that the cows were being compelled to consume an excess of crude fibre and carbohydrates in order to obtain the required amount of protein to produce a satisfactory flow of milk.

Home-Grown Feeds Valuable. This farm furnished an abundant supply of clover, mixed hay and corn (Continued on page 256).



In a Highly Specialized Fruit Growing Community the County Agent does not Find it Easy to Point out Shortcomings and Suggest Improvements. The very Nature of the Business Demands Skill, and the Efficient Use of Labor, Fertilizers and Machinery.

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CURRENT COMMENT.

The Austro-Hungarian Austria's Bid government's proposal for a peace parley has for Peace. been fittingly answered

by the government of the United States. The Austrian document presented through the Swedish embassy was a lengthy document, proposing a secret and confidential peace parley, without cessation of hostilities, for the interchange of views as a basis for peace, but without binding obligation on the countries involved. President Wilson's reply, which was issued in the form of a statement from Secretary of State Lansing, was made just thirty-three minutes after the message just sixty-eight words, reads as fol-

ply which it can make to the sugges- needed, that he has little time to think the local unit. This is a plan which gation. tion of the imperial Austro-Hungarian or plan for the future when the war should be given careful consideration upon which the United States would prospect. consider peace and can and will entertain no proposal for a conference upon however, will reveal to any thinking own state. a matter concerning which it has made man the importance of formulating its position and purpose so plain."

the four primary requisites of peace, plans which may be made by the indias expressed by President Wilson at vidual farmer will not have an im-Mt. Vernon on July 4, none of which portant bearing on the situation as a were recognized in Austria's peace of- whole, but thoughtful planning by the new regulations announced by Food offered a satisfactory price or can sefensive. In the game for world domi- individual must go before concerted Administrator Hoover, under which cure a car in which to ship to the nation which is being played by Ger- action by farmers as a class, hence wheat flour restrictions in the United Grain Corporation. her vassal, and the proposal of the thought to the future, so far as it may Austro-Hungarian government can be relate to or affect American agriculthey have had since the early days of farms, special care should be taken construed only as an "offensive" to ture. create discord among the allied pow- For the present, and until the war is fective September 1, and wheatless ing the new crop with old grain. A ers who are fighting for the great won, our first thought must obviously meals are discontinued. principle of human liberty with the be for production if our boys in France Under an international bread pol- Wheat Flour Control for the 1918 main object of increasing Germany's are to be properly fed, and the de- icy formulated by the Inter-Allied Wheat Crop," is now in the form of chance of again assuming the initia- mands for home consumption and for Food Council in London, all bread now an eight-page pamphlet which may be

place confidence in even their most which is being made in the organiza- cent substitute cereals. an ally, whose pledges she would be the Michigan Milk Producers' Associato sell one pound of substitute to four culture has jurisdiction.

ster of inhumanity be deceived by ward the solution of this problem such a move. The only basis for a along right lines. just and lasting peace is the crushing But there are other and perhaps

war is the movement to

portation resources.

As a means of building up an effi- ent time. cient organization, state highway in each state will be to make a prelim-ried in our own ships, resulting in an buckwheat flour. inary analysis of the equipment al- industrial activity the like of which lished for the carrying on of this much siderable foreign demand for Ameri- rye with three pounds of wheat flour. needed work. Following this prelimi- can farm products, particularly Amerreturn loads for motor truck express thinking man but that grave problems

available for the people of such cen- ture of the country is to be placed on ters, this plan will also save labor for the same sound basis as our other inwork on the farms because of the man dustrial activities, it will be necessary power released by the establishment for our farmers to be so organized as wherever it is possible to economically to fit the new conditions. make use of this means of transportaservice as they materialize.

Future.

plans for the future by American Michigan Farmer readers will recall farmers as a class. It is true that the

who are fighting to subdue this mon- that rapid progress is being made to- of flour.

defeat of this monster, after which the graver problems which will confront as the housewife's bread. issues of the war may be settled in a our agriculture in the reconstruction manner which will conserve human period following the war. Just the naliberty among all the peoples of the ture and extent of these problems can- tute cereals into the pure wheat flour world, rather than the selfish interests not be fully determined at the present at home for all uses. of ambitious rulers or ruling classes. time, for the reason that there are no precedents upon which to base judg-Among the interesting ment in the matter. It is evident to corn bread and other wheat saving Motor Truck developments of the all, however, that normal industry is breads. being greatly disturbed in every line increase our highway by the necessity of diverting the ma- wheat flour is required to carry in transport resources as a means of re- jor part of our resources to war prolieving railroad congestion and facili-duction work. Undoubtedly there will corn flour, and with every sale of tating the movement of food stuffs be a period immediately following the wheat flour must sell a combination marketward, and at the same time the war, during which our armies are be- of some one or more of these in the distribution of goods to rural commu- ing demobilized and millions of men proportion of one-pound substitutes to nities. To accomplish this desirable seeking a new place in the nation's each four pounds of wheat flour. No result, the Highways Transport Com- industries, when our disorganized in- dealer may force any other substitutes mittee was appointed by the Council dustries are again getting under mo. in combination to the consumer, and of National Defense to promote the tion in their several channels of pro- the substitutes must conform to the idea of the development of highway duction, and while we are still paying standards fixed by the United States transportation by the use of motor the enormous costs incident to active Food Administration. trucks as one of the available means war, during which war-time economies

In addition to making more food of industrial activity. If the agricul-

New Substitute Ruling

nation which is being played by Ger- action by farmers as a class, hence wheat thou restrictions in the Allies giv-many, Austria can be viewed only as the desirability of devoting careful States are relaxed, and the Allies giv-many, Austria can be viewed only as the desirability of devoting careful States are relaxed, and the Allies giv-when the wheat is to be stored on en bread containing more wheat than the war. The regulations became ef- to clean the granary and avoid mix-

independent plea of Germany's Austri- in the extension of the activities of in its place retailers will be required the United States Department of Agri-

at liberty to disavow at pleasure. Nor tion, and in the organization of many pounds of wheat flour, instead of one will the people of the allied countries local marketing enterprises indicates pound of substitute with each pound

Bakers' bread will contain four pounds of wheat flour to one pound of substitute. This is exactly the same

Householders are expected to mix at least twenty per cent of the substi-

Conservation of wheat is urged, and the public is asked to continue using

The retail dealer selling standard stock either barley flour, corn meal or

There are some localities where othof strengthening the nation's trans- in every line of endeavor will be quite er substitutes are available and which as necessary as they are at the pres- retailers may wish to carry. In order to meet this situation the following How great or of how long duration flours may also be sold in such combitransport committees are authorized such industrial depression may be, no nations in lieu of the above flours, if to be appointed by the state Councils man would attempt to predict at the the consumer so demands, at the ratio of National Defense, and provisions present time, but following this period of one pound to each four pounds of are made for county and district com- will undoubtedly occur a period of wheat flour, that is: Kaffir flour, milo mittees to make the whole organiza- great industrial prosperity in which flour, feterita flour and meals, rice tion a workable unit. Under this plan, our goods will freely reach almost ev- flour, oat flour, peanut flour, potato the first duty of the state committee ery market throughout the world, car-flour, sweet potato flour, bean flour,

Pure rve flour or meal may be sold ready in the field, and to determine this country has never seen. While as a substitute, but must be sold in what activity has already been estab- there will undoubtedly be a very con- proportion of at least two pounds of

The foregoing rules apply to custom nary survey, bureaus will be estab- ican live stock, during the years im- and exchange transactions as well as lished in each important center of pop- mediately following the war, there can sales of flour to farmers, unless modiulation for the purpose of arranging be no question in the mind of any fied by special announcement of the federal food administrators of the lines bringing farm products into such will confront the farmers of the counstate where the mill is located, acting try growing out of this very condition with the approval of the zone com-

#### MOVING THE WHEAT CROP.

The Food Administration is now colof efficient truck lines. This plan has to be able to present their needs in a lecting data and information upon interesting possibilities in the present concrete and intelligible form when which to base conclusions as to what emergency, and should be encouraged the nation's policies are being shaped is a fair remuneration for a country elevator, dealer or operator to receive. This desirable result can obtain only In the heart of wheat producing areas tion. Michigan Farmer readers will be if the farmers of the country are ade- where expense of operating is low, kept advised of developments in this quately organized for this very pur- present conditions indicate that five pose, for which there has been sug-cents per bushel is an ample charge. The average farmer is gested no plan which compares in In other districts where facilities are and to the point. Its text, containing Plans for the kept so busy these feasibility with the plan for a Nation- not modern eight cents is perhaps not days in doing two al Chamber of Agriculture made up of too much. In special cases the marmen's work in secur- an affiliation of similar organizations gins may fall outside this price range. "The government of the United ing his crops, because of the impossi- in each state, such organizations to be Actual determination of a fair buying States feels that there is only one re- bility of securing extra help when it is based on the county farm bureaus as margin must depend on local investi-

Farmers who are able to get cars government. It has repeatedly and shall be over and world peace a real. by every farmer, and made a subject are protected because they can ship with entire candor stated the terms ization instead of but an indefinite of discussion in farmers' organiza- directly to the nearest primary mar-Any sort of analysis of the situation, be taken toward working it out in our producer's best alternative is to store his wheat until he is offered an acceptable price.

> Farmers may learn from the Fed-I NIVERSAL war bread for all na- what price is approximately fair and tions arrayed against the Contions arrayed against the Cen- they will not be considered unpatriatic tral Powers is provided for in for holding their wheat until they are

clear statement entitled, "The Plan of tive and gaining a military advantage. the maintenance of our Allies are to made for France, England, Italy, the secured by persons having difficulty Surely German militarists cannot be be met. Marketing problems should, United States and the other Allies, is in marketing their wheat. The pamphso egotistical as to believe that the of course, receive their proper atten- made of mixed flour containing eighty let contains a list of the primary marallied governments can be induced to tion in the meantime, and the progress per cent wheat flour and twenty per kets with fair prices, gives directions for shipping to the Grain Corporation solemn promises, let alone the alleged tion of the Michigan Potato Exchange, The fifty-fifty rule is withdrawn and and discusses wheat grades over which

# The Tractor on the Fruit Far

of its capacity for doing more work popular favor on these farms.

of plowing, harrowing and cultivating, and at the same time not eat its head make the business profitable. off at seasons when it is not in use. bor required to drive the horses.

of pulling only one or two plows, are horse. They are not large enough to reduce done just as well as with a team of building for shelter. All of these items business that one cannot figure their the man labor required in plowing— good horses if care is exercised in should be given proper consideration, value in dollars and cents."

PRACTICALLY all authorities on Since the Use of Motor Trucks for Hauling Fruit Crops How does the owner of a commer-fruit farm management have point. ed out that the commercial fruit farm does not usually furnish econom to Market Has Become More General, there is an horses at harvest time? In reply to ical employment for horses and the Increased Demand for Light Tractors to Replace my question one of the most extensive sary to make up proper equipment to Horses on Fruit Farms. How the Proposition Works in western New York said: "The fact facilitate tillage operations during the rush season. The tractor, on account in Some of the Fruit Growing Districts. -C. B. Ford. that we had done all of our long-haul rush season. The tractor, on account in Some of the Fruit Growing Districts. -C. B. Ford.

within the time which the seasons al- than an ordinary horse-drawn gang- and cultivators may be adjusted to we can haul all of our second-grade low, is gradually working itself into plow, and man labor is just what the run as close to the rows of trees with- fruit to the city market where it finds small tractor should replace on the out danger of injuring them; this is a a ready sale at remunerative prices. The cost of maintaining work horses fruit farm. The three-plow tractor point of great value in working around Our truck replaced two men and six is causing many commercial fruit or- may be large enough, but the one cap- low-headed trees. chardists to look around for some able of pulling four plows will not be kind of power that will do the work too large for the well-organized com- vation and the neglect to grow green make prompt deliveries and put our mercial fruit farm of sufficient size to manure crops to plow under has left fruit on the market in better condition

tors must be considered, such as the weighs about five thousand pounds, commercial orchard.

the cost of the tractor and the amount stands in the space needed for one for the tractor furnishes considerable would be absolutely impossible with of farm land to be cultivated. The team, being only eleven feet long and food for thought when a man has to horses and spring wagons. The truck size of the farm, while important, does five feet wide. The owner claims that put up a set of new buildings on his opens up new possibilities for growers not have so much influence as the he can buy the equivalent of a heavy farm. The cost of building a barn of fruit who live within sixty miles value of the crops and the cost of la- work horse for less than \$150 in the large enough to comfortably stable of large cities, just the same as the form of a tractor, with a much lower eight horses and provide room for tractor opens up new possibilities for That the smallest tractors, capable up-keep and cost of driver than for a storing the necessary supply of food growers of fruit whose operations are of economical size for even large fruit The small tractor will turn the cor- At the present time it would cost They so completely change the nature plantations is decidedly questionable, ners quickly and the work can be enough to buy a tractor and erect a of the fruit growing and marketing

a motor-truck prompted me to study with a single set of units, and well in fact, they require more man labor making the turns. The plow, harrows the tractor proposition. With a truck horses hauling fruit to market; be-The common practice of clean culti- sides it has made it possible for us to the soil in many large fruit planta- than we could with horses and wag-Light tractors suitable for heavy tions in such poor mechanical condi- ons. Our tractor has just fitted in Whether a tractor will be a profitable horse work in the orchard can now be tion that it is practically impossible to with our truck so that we are keeping investment on the fruit farm is purely bought for less than \$1,400, including muster together enough horses to do only one team of work horses on our a question of how successfully it can plows. One of these small standard the work in season, especially during three-hundred-acre farm. The truck be used to replace team work, and design tractors is being used on a periods of severe dry weather. The and tractor have replaced two regular must be worked out by each farmer large fruit farm in Niagara county, tractor has proved a most valuable men and eight horses. It would be himself. Numerous influencing fac- New York, at the present writing. It ally in overcoming this trouble in the difficult to give exact figures as to the saving they have effected, because we cost of housing the horses and tractor, does the work of eight horses, and The cost of horse barns and shelter can do marketing with the truck that would cost more than a small tractor. limited to inadequate horse power.

# Getting the Jump on Potato Diseases

By Selecting Seed Now the Grower May Dodge the Ravages of Many Potato Ailments By C. W. WAID

ers have been willing to use whatever use of first-class seed for planting. happened to be on hand at planting There are several ways in which also be removed. It is quite an easy

in the state of Michigan during the last two months. In some sections of the state the use of poor seed is very apparent. The potato fields where such seed has been used show a poor stand of plants, there are usually weak hills, and often a number of plants are diseased. On the other hand, in sections where good seed has been used the stand of potato plants in the fields is much better, there is a much more uniform growth of vine and diseases are not nearly so common. One of the most striking things which has been observed is the fact that the best growth of vines was found

time for seed purposes. There are a good potato seed may be secured. One matter to detect off varieties in the likely to be found in Michigan potato considerable number of growers at the of the least expensive methods is to Late Petoskey and Rural group of po- fields are the wilt, which is indicated present time who follow this practice. rogue, or take out, from a field which tatoes. The vines of both are very by a wilting down of vines, or in the The writer has been inspecting po- is much above the average so far as similar, the stalks being more or less early stages in the growth of the distatoes in a large number of counties the growth of vine is concerned, all colored with purple and the blossoms ease, a yellowing of the leaves to-

T is getting to be quite a common in sections where someone in the com- hills which show indication of dis- always purple. In vines the stalks of dicating mixture of variety, should ed quite easily.

practice for potato growers to save munity had made it a practice for sev- ease. If a person is anxious to get each are entirely green in color, the at least a portion of their seed for eral years past to develop and distrib- pure seed, free from mixtures of other same as the other varieties. As a usthe next year's crop at digging time. ute in his community good seed stock. varieties, all hills which show a dif- ual thing the mixtures also show a In years gone by a good many grow- This is a strong endorsement of the ference in the growth of the vine in- lighter color of leaf and can be detect-

The diseased hills which are most

gether with a contracting their development which makes them much more narrow than normal leaves. By cutting off the stalks at the lower end a brown discoloration will be shown on each edge of the stalk if the wilt is present in the plant. The tubers from these hills should be removed from the field.

Another common disease is Curly Dwarf. This disease results in a very much smaller growth than normally and the affected plants are bunchy and have a large number of secondary shoots thrown out from the axils of the leaves. In pulling it will be



Selection of Healthy Seed Has Improved Michigan Potato Crop.





In the selection of a heating plant a low first cost is always desirable; but of equal importance is the low cost of operation and assurance of real comfort in severe

There is no question about the correct principle of pipeless furnace construction. It follows nature's law of warm air rising in the simplest, most direct path. And that principle accounts for its economy of fuel and thorough circulation of warm air to all parts of the home. Practically all of the heat passes into the rooms through one register. the rooms through one register.

the rooms through one register.

But the best proof of its low cost of operation and its comfort giving qualities is the fact that many people heat their entire home now with the Hummer Pipeless Furnace while they formerly heated only one or two rooms by stoves, and the fuel bill is about the same. The interesting letters of these people as well as many facts about Hummer Pipeless Furnace heating and attractive prices are found in our circular No 75M72. Now is the time to prepare for a comfortably heated home next Winter. Send for this circular. A post card will bring it to you.

Sears, Roebuck and Co. Chicago.

tion of them for seed. This disease for the main crop the second year. transfers in the seed stock, and when the following year.

when digging the most desirable hills. most far-reaching. The grower should keep in mind a cer- After the seed has been hill-selecttain standard, which will depend upon ed, be sure that it is stored where it the setting and general growth in the will not be interfered with until it is field. If the setting is heavy, hills wanted next spring. Such potatoes from which the seed is saved should are usually of first-class appearance, have a large number of tubers uniform and if they are allowed to remain in size and of typical shape. It is bet- where they can be easily seen they ter not to save seed from hills which are quite likely to be used either for have very many small potatoes in table use, or possibly some buyer will them. Where a machine is used for endeavor to purchase them at an atdigging the grower can hill-select a tractive price and the grower will thus

found that the tubers clinging to the machine digger is started and dig hills root are usually developed close to the top growth of which looks the the root stalk. Plants affected devel- best, and save all of the tubers from op only small potatoes, none large such hills as show a good tuber enough for market and only a small growth as well. The few bushels percentage have sufficient size for which are saved in this way should be seed purposes, although some growers grown in a seed plot the following will, no doubt, use a considerable por- year, and this will furnish the seed

The hill selection of potatoes has small potatoes are used from a field been carried on by a sufficient number in which a good many Curly Dwarf of growers and over a sufficiently wide hills are present, there are quite cer- area so that the results of such work tain to be more such hills in the field are known to a great many people. No one needs to expect to have a perfect There are other diseases which ap- crop because of the fact that the seed pear from time to time but which are has been hill-selected, but experience not sufficiently common that a descrip- has shown that where this practice tion of them needs to be given in this has been properly done that the article. Anyone who wishes to be- growth of vines from such seed is come familiar with potato diseases much more uniform than where no atshould write for Special Bulletin No. tention is given to hill selection, and 85 of Michigan Potato Diseases, by the crop/grown from such seed is more productive than where hill se-Another way to secure good seed, lection is not practiced. Improving the and one which will produce better reviseed stock for the Michigan potato sults than the mere roguing previously crop is one way in which the yield of referred to, is to hill-select from the Michigan potatoes may be increased at most vigorous vines and most produc- a comparatively small added cost. The tive hills. When a potato grower digs labor involved is not great, and in this by hand it is not a difficult matter to time of shortage of help this method hill select a sufficient number of bush- of improving the crop is one of the els for the next season's crop. This best, and if practiced by large num-may be done by throwing to one side bers of growers would be one of the

few bushels of seed either by setting lose the benefits which otherwise aside a certain number of rows or cer- would result from his work of hill setain area and digging them by hand, lecting. Can we not make a drive this saving the best hills; or he can go fall to hill-select Michigan seed potainto the field a week or so before the toes for our next year's crop?

### Agricultural News

college at government expense is made alike. available through the government's plan to take over the colleges as a scheme of good marketing is to bring war emergency measure. In addition good eggs to market. To accomplish he will receive \$30 a month, the pay this, he should market his eggs freof a private soldier, and find excep- quently, not let them accumulate. tional opportunities for advancement

expenses and, at the outset, tuition tination, and the higher its value. and board. About October 1, while at school they will be inducted into service, but will continue at school until ordered to duty. After being inducted into service they will receive pay, a the colleges.

GOOD HANDLING SAVES EGGS.

a day grading "current receipts" into use. of eggs as they were received at a and the country merchant had hand- ered to the farmer. led the eggs promptly.

their route from nest to packing house for sourness.

COLLEGE TRAINING FOR BOYS. the smaller the opportunity for loss.

The proper handling of eggs is not a CHANCE for the farm boy of one-man job. Many people are con-A CHANCE for the farm boy of cerned in it. Their interests are comeighteen who has a high school cerned in it. Their interests are comeducation, or its equivalent, to get at mon, and mutual understanding and least a part of the freshmen year at cooperation between them benefit all

The farmer's part in the general

The dealer's job is to keep the eggs to the rank of a commissioned officer. good. His slogan should be "ship About three hundred colleges will promptly and properly." The sooner be utilized for training the boys in the an egg is put under refrigeration and eighteen-year-old class. The boys will started for the market, the better its be expected to pay their own traveling quality when it reaches its final des-

#### GRIND LIMESTONE AT HOME.

OMMUNITIES situated five miles or more from the railroad, in uniform, and be housed and fed. The regions where the soil needs lime, and number that will be allowed to take where a local source of limestone-is advantage of this opportunity will de- available, should consider home grindpend on the facilities and capacities of ing. Those communities lying near a shipping point can usually ship in ground limestone as cheaply as they can grind it. There are large areas in Michigan, however, which will never JOT long ago four men worked half be limed until the home grinder comes

The cost of grinding will depend on city market. They candled out \$100 the ease of quarrying the stone, the worth of rots, spots, and incubated size of the grinder, and the efficiency eggs. This loss could so easily have of the crew. In most cases \$2.00 a ton been prevented if only the producer is about as cheaply as it can be deliv-

Home grinding may be done coop-The hen lays a fresh egg; the con- eratively, or one man in the commusumer demands a fresh egg. Eggs are nity may buy the outfit and do custom a highly perishable product, and grad- grinding. Communities which considually deteriorate with age. Heat is er home grinding should take up the their enemy; cold is their friend. The matter with the College of Agriculture shorter the time and the more direct and have samples of the soil examined



You are sure of getting a de-pendable instrument. Baldwin-made pianos awarded Grand Prize at Paris and St. Louis. Baldwin factories do not make cheap instruments of

You get best value at price you pay. Baldwin instruments are made throughout in Baldwin factories. No profits to makers of piano parts. Immense output keeps cost to lowest

Every instrument guaranteed by the factory. Baldwin-made

dealers practically direct from factory to you. The factory stands behind every instrument. No divided responsibility.

You choose from a complete

There are Baldwin-made instruments at various prices beginning at the lowest figure for which a dependable piano can be produced up to the very most that money can buy. The line includes the Baldwin, Ellington, Hamilton and Howard Pianos and the Manualo Player-Piano.

E! Songs of Our Country This book contains complete words and music in quartette

arrangement of our ten national and patriotic songs. Tear out this advertisement, write your name and address in margin, and send to nearest address below, or mail your request on a postal card. will send book postpaid and free

The Baldwin Piano Co. Cincinnati, 142 W. Fourth St. New York Chicago Denver St. Lo SanFrancisco Indianapolis Louisville Dal

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

### Beware of Frosted Clover

AUTION should be exercised in pasturing red clover after its growth has become checked by frost. Because many farmers have given their horses and cattle free range of clover fields after hard frosts in the fall without injury it is difficult to convince them that it is dangerous to utilize this tempting feed. There are many prudent farmers, however, who, knowing the danger of pasturing frosted clover will not permit horses, cattle or sheep to graze on it. If they do not fear injury to the animals they have learned from observation and experience that there is no surer means of injuring a good stand of clover than to allow stock to graze and trample it down. Even though the frosted clover does not quickly injure the animals that graze on it there is such certainty of injury to the clover plants that it is poor economy to let the stand become injured in the effort to find nourishment from feed of doubtful value.

Feed Some Grain.

The extent of injury and time required for it to become known is sure to vary with the condition of the animals given access to the frosted crop. The stock may have a regular ration of roughage and grain at the barn and no visible derangement of the stomach or bowels result, but this proves nothing as to the value of the frosted clov-



Frosted Clover Furnishes Poor Grazing for Hogs.

er. It merely proves that under certain conditions it is not deadly, and may be used with impunity. But when animals have no other feed than frozen clover we have conditions that will be followed by derangement of digestion, which may be evident from forms of colic and acute indigestion, followed in due course by scours, constipation or severe inflammation of the bowels. Science has been unable to explain just how frost affects the digestibility of clover plants. But we do know that when frost gets in its work, the aroma, the juices and the gums change and eventually disappear, leaving only the skeleton or woody fiber. There is a rapid passing of the plant from its perfected growth back to earth and atmosphere, whence it originally came. The feeding value of the plant declines rapidly as these nutritive juices and gums change or are dissipated.

Mature Plants Best.

The clover plant in full maturity not only contains the largest per cent of nutrients, but it contains them in the form and quantity best suited to the requirements of the animal's digestive system. All departures from this perfection of feeding value tends to depreciation until it arrives at a point of decomposition, when it is no longer fit for food. The freezing of an immature, succulent plant throws the juices to the surface and as they carry off the gums and sugars, they are soon washed off or change into compounds so as to leave the plant reduced in palatability and digestibility. It is poor economy to make horses, cattle and sheep try to digest plants that carry so little nutritive value, especially when this effort at economy is sure to result in injury to the succeeding crop of clover, and probable injury to the animals.

W. M. K.



### UNCLE SAM Wants the Whole Dairy Family -- Cow to Consumer--

Bossy, her father and brothers—The man, woman or child who feeds and milks her—The man, woman or child who makes her milk into butter, cheese, ice cream, condensed milk, milk powder, or any other shape or form, and the man, woman or child who uses her milk in any form, all the folks who make or sell machinery and equipment she makes necessary.

TO GO TO THE

#### Columbus, Ohio National Dairy Show October 10 to 19 BREEDSVILLE,

Where he is going to deliver to each one a great war message on the team work he wants to do with the dairy people and how he wants the dairy people and the consumers of their products to work together—This is a call of duty and opportunity—GO.



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

GEO. S. BIGELOW, MICH.





BARRELS

We have for sale Potato, Sugar and Apple Barrels also egg crates. We buy and sell all kinds of Burlap and Cotton Bags. Write for prices. Hamburger & Spitz, 373 Bellevue Ave., Detroit, Mich.



### ANNOUNCEMENT



ARMERS and feeders who have been feeding the well known and popular Arcady (RKD) Feeds, will be pleased to know that the Company are supplying their trade in their

usual prompt and careful manner in spite of their recent fire loss.

Regardless of modern fire extinguisher protection, three hours served to send up in smoke one of the most modern and up-to-date equipped feed mills in America. The Poultry Feed plant, we are glad to announce, remains in full operation for the immediate shipment of orders.

Plans are already under way for the quick and immediate rebuilding of the plant on even better plans than heretofore.

Meanwhile, orders for RKD Dairy, Hog and Stock Feeds will be shipped from associated plants with the same painstaking care as before.

May we, therefore, ask you your continued patronage and support, which we shall do our best to merit and satisfy.

> Yours very truly, ARCADY FARMS MILLING COMPANY CHICAGO



### GET FULL VALUE OUT OF YOUR GRAIN

Grind it and Feed it on your own place, where nothing is lost. Besides roughage, live stock must have Concentrates. Ground Grain is the most effectual and economical. BOWSHER

FEED MILLS "Always Reliable"

ush ear corn (with or with-husks) and grind all kinds of all grain. 10 sizes, 2 to 25 H.P. old with or without Elevator Write today for catalogue. Write today for catalogue.

D.N.P. BOWSHER CO.
South Bend, Ind. F1.

### EACCOUNT BOOK

s bookfree today. Hundreds of farmers use it for g their daily records. Also ask for catalog on hal Corn Huskers and Shredders. Known for eat speed and clean husking. Easy to feed. Many or features. Own your own husker, save y and avoid delays, Five sizes—two for individual use, three for custom work.

Sold on trial. State H. P. of your engine.





### Stop Cream Waste!

\$20 more profit per cow every year is the average gain of farmers using Viking Separators. Many dofar better than that. Proved by carefully kept records of thousands of Vikings.

Don't let the valuable butter-fat dollars slip away in the skim milk through ordinary separators. Get all the butter fat that is in the milk with a

Guaranteed to skim to three one-hundredths of one per cent! No separator at any price gets a higher percentage of cream. Greater capacity than others of equal rating. Mechanically superior. Easy to operate (starts at a touch on the handle). Simple in construction and easy to clean. Lowest in price because it is made in the largest cream separator factory in the world. Guaranteed for a lifetime. More than one million in use, in all countries of the world. Look up the Viking dealer and investigate. The Viking is a money maker for you. maker for you,

### Send For Two Free Books

Not advertising alone but the book, "Making the Dairy Cow Pay," is full of profit-making pointers for dairymen.

Swedish Separator Co. Dept.BG 507 S. Wells St. Chicago, Ill.



### Our Crops for 1918

taken as a whole, have been fairly average of 30,140,000 bushels. satisfactory this year. There are however, some crops and a number of extremely severe drought. The northern districts were not affected, timely showers even improved the outlook for dition obtaining a month earlier.

The Corn Crop.

the estimates of fed-

eral crop reporters are correct. This is over twelve million bushels greater than the 1917 crop, but is five million bushels less than the average from 1908-1917. Every quarter of the state has its good and bad crops. This is probably due in part to the great variety of seed corn Corn from used. home grown seed, while damaged by dry weather, is very well eared in the majority of fields, and will produce from a fair to a good crop. Fields planted to this seed have matured early and are being harvested. Where outside seed was planted, an abundance of fodder has resulted, but the corn is not well ear-

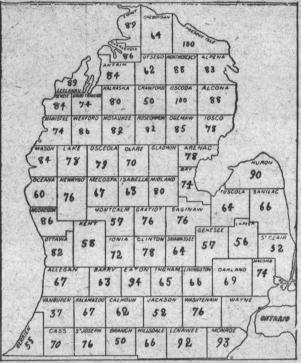
ed and will need a few weeks without fields are producing a satisfactory

Potatoes Much Short of 1917 Crop. The state's potato crop is estimated gressed under fairly in the early potato crop, which was ing board. exceedingly light. Late potatoes will also be poor in the southern counties

RARMING operations in Michigan 000 bushels last year and a ten-year

Beans Are Promising.

A good acreage of beans was plantlocalities that will come far from ed last spring, and despite the lack of measuring up to their normal produc- moisture in many sections, our farmtion. During August the southern ers will harvest a crop nearly 1,500,000 counties of the state suffered from the bushels greater than the average for the past ten years, or 5,497,000 bushels, according to Uncle Sam's report-The crop is placed at over 2,000,crops in many instances over the con- 000 bushels above the yield for 1917. In the driest localities, the yield has been cut probably one-half, but this is Our farmers are harvesting a fifty not general. Over a large portion of million bushel corn crop this year, if the big bean-growing counties the



Condition of Michigan Bean Crop by Counties.

Harvesting began as early as crop. the middle of August and has proto be one million bushels less than the weather conditions. On this page is a ten-year average, and about seven mil- map giving the condition of the crop lion bushels short of last year's bump- in the various counties of the state as er crop. The greatest foss has been reckoned by the federal crop report-

Clover Seed Situation,

The acreage of clover left for seed of the state, but there is promise of a this year is unusually large. The con-

dition is far from being uniform, but there are a large number of localities where good yields are reported. Pros pects are much betfer than they were a year ago. Early threshing returns indicate some good yields. In the last state crop report 7,-740 bushels had been reported as hulled, showing an average yield of 2.59 bushels per acre.

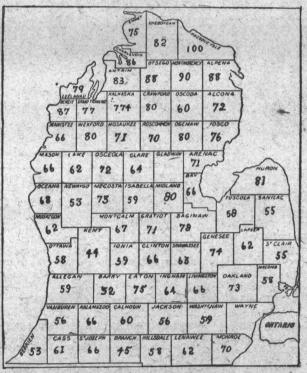
A Fair Crop of Apples.

Taking the as a whole, there will be a fairly good crop of apples. Generally speaking, the northern counties are faring better this year than are the southern counties. In the latter districts considerable dropping result-

A Bumper Barley Crop.

Michigan establishes a new record

(Continued on page 267).



How Our 1918 Potato Crop Looks in the Several Counties.

good yield in the commercial produc- ed from the extreme dry and hot ing counties of the central and north- weather during July and August. ern parts of the state. The accompanying map will give the interested reader a general view of the outlook in barley production this year. The for this crop in Michigan for 1918, as average production for the past ten estimated by the United States crop years is 2,334,000 bushels, whereas the reporters. They place the present crop estimated yield for the present year is at 28,856,000 bushels, against 35,910,-



### Two Cows Per Acre

Do you know of anyone who is keeping two cows per acre the same as J. D. Detrich, did a few years ago? Sanilac Co. F. L. M.

So far as I know, no other man has ever accomplished such results in the way of intensive dairying as Rev. J. D. Detrich. Several men in a practical way have succeeded in keeping a cow per acre. They were small farmers, and by intensive methods were able to support a cow per acre where the greater part of the grain was purchased. I don't think it would be practical on a large scale to endeavor to raise only roughage to feed cows, because we are not all as favorably located as Rev. Detrich for such work. He had a market close at hand and could buy bedding and grow a succession of crops, many of them two crops in a season. He did not have to depend upon a rotation of crops for soil improvement or for arranging the labor problem to do things consecutively. On a good-sized farm, from eighty acres up, my judgment would be that it wouldn't be practical to do any such thing. In fact, very few people have ever succeeded in keeping one cow per acre. It would be such an intensive business that few people would be willing to manage it even after it was worked up. For instance, supposing a man undertook to keep eighty head of cows on eighty acres of land. The labor bill would be immense. business would be so intensive that few people would have the capacity to do it and few who have the capacity would care to apply themselves to details in order to accomplish such results. Most dairymen make dairying the leading feature of their farming and find it more profitable, taking everything into consideration. For instance, the dairyman must have bedding. Now, by growing wheat or oats in the rotation of the crops, whichever crop seems best adapted to the condition, one has the straw, practically a by-product, for bedding and if he grows wheat the wheat can be sold to purchase concentrated food for the cows. If he grows oats or barley, this feed can be fed to the cows. This land that grows this grain could be seeded to clover and have a regular rotation of crops which conserves the labor element on the farm and helps to keep up the soil fertility. Of course, with eighty cows on eighty acres, there would be such an amount of stable manure that the fertility problem would bother little after one got his business established.

But again, most people want to use part of their land for pasture. This cannot be done in real intensive dairying but it is a great relief to be able to turn the cows out to pasture for a portion of the year and most people would be willing to sacrifice some on profits to get rid of the care for a time of maintaining cows in proper health andition without any pasture at all, simply stabling them night and day the year around with perhaps little exercise yards for a portion of the day. That is the way it would have to be done. I believe it would be possible to carry on dairying on quite an intensive scale as intensively as Rev. Detrich, but there are few men who would care to give it the necessary C. C. L. detailed supervision.

### UNICORN DAIRY RATION





### This Year—Handle it Right!

YOUR corn has long been a valuable crop, but the 1918 variety is worth more than ever. You will want to cut it economically and save it all in spite of labor shortage. The Deering or McCormick Husker and Shredder is the quickest, easiest way to husk the corn and it gives you the shredded stover in fine shape for winter feeding to boot.

The Deering or McCormick, in sizes from 2 to 10-roll machines, husks the corn at a rate of from 150 to 1,000 bushels per day and shreds the stalks, leaves and husks, in addition, at a cost no greater than that of husking alone when the work is done by hand.

Therefore, it will pay you to own one of these machines, or to go in with some of your neighbors to buy one, even if you have only 20 acres or corn.

have only 20 acres or corn.

Deering and McCormick huskers and shredders work fast, shell little corn, and are safe to handle. They are easy to handle around buildings; all parts are easy to oil. The Deering sizes are 2, 4, and 6-roll; the McCormick 4, 6, 8, and 10-roll.

Write us for complete information. Get posted early and

be ready for the corn harvest.

Deering

### International Harvester Company of America **CHICAGO**

Champion

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Milwaukee

### Red Rock

### Winter Wheat

For Michigan and the northern states. Has yielded 37 bushels average per acre at the Michigan Experimental Station. Record yield of nearly fifty bushels per acre.

#### Rosen Rye

e samples and fair price list.

#### Fall Bulbs

Beautiful new Darwin Tulips, Hyacinths, Narcissus, illies, Crocus, etc. Plant these bulbs this fall for vinter and spring blooming. Isbell's Fall Catalog Free gives full information.
Write for it today.

### WANTS MORE RYE

one and a half bu, per acre together with 200 lbs, acid phosphate about Sept.25th. Our rye has been inspected and passed by the Mich. Crop Imp. Assn. Prices for seed recleaned and delivered to either P. M. or G. R. & I. R. R. 4 to 10 bu. \$3.25, 10 to 50 bu. \$3.00. Over 50 bu. \$2.75. Bither send sacks or new ones furnished @ 560 each. Orders filled same day received.

Maple Grove Farm, Breeders of Holstein Cattle, O. I. C. Swine, Shropshire Sheep, and pedigreed field seeds. ROSSMAN BROS., Lakeview, Mich.

### Red Rock Seed Wheat

\$3.00 per bu. new 16 oz. bags 70c each.
YOUNG-RANDOLPH SEED CO., Owesse, Mich.

ROSEN RYE, a new variety originated by has been heavily out yielding almost all other varieties

trated later than the more robust youngsters. In the ordinary calf they may safely be operated on when a week or ten days old.

Please Mention The Michigan Farmer When Writing to Advertisers

trates.

### CARRYING IDEAS TO PLACE OF ACTION.

(Continued from first page). silage. Careful experiments showed that very efficient rations could be made up by buying cottonseed and oil meals, to be mixed with the silage and fed not to exceed five pounds a day to cows giving good yields of milk. To buy a ton of wheat bran at \$40 that, if pure, contains only 240 pounds of protein, when a ton of cottonseed meal contains nearly 800 pounds of protein and costs \$50, is to part with one's money without reasoning. the bran the protein costs about sixteen and a half cents. In the cottonseed less than seven cents. Confining the cows to their two and one-fourth pounds of protein-all they can profitably use, these two concentrates, fed with silage and clover hay, fill all the requirements of the ration, and, as oilmeal counteracts the peculiarities of cottonseed meal, there was no reawhy the owner of this farm should continue to buy for his cows the diluted grain feeds when they were selling for practically the same prices as the more valuable concen

Besides the fertilizing value of these feeds must be taken into account. When a ton of bran is fed there is a credit as fertilizer due to it of, at least, \$7.00 to be deducted from the cost price. In the case of a ton of oilmeal the credit is about \$10 and with cottonseed meal about \$12, the latter being a pretty good rebate on the original \$50 purchase. Intelligent feed buying increased the efficiency of this farm more than \$1,400 per year. Did it pay to consult an expert to get at this loss and put the feeding operations on an economical and efficient basis?

Specialized Farming More Efficient.

A great many farmers have reached a high plane of efficiency because the very nature of their farming has made necessary. Their products command a high value and their farming demands skill, and an efficient use of labor, fertilizers and machinery. In many sections of the country where highly specialized truck and fruit crops are produced the farm expert does not find it easy to point out their shortcomings or suggest sweeping improvements. Cost keeping is one of his trump cards, but instead of finding a lot of careless workers he will probably discover much that is new to himself.

Summing up the whole question of employing farm experts we find that no farmer can employ an expert and depend upon his advice to run his business. The expert may take hold of the farm and by very simple means accomplish wonders, but unless the owner has executive ability, a knowledge of human nature, a knack of keeping things moving, and similar qualities along with the scientific management of the farm, no expert in captivity can help him put his farming on a permanently profitable basis. Much of this efficiency we hear so much about consists of a lot of old-fashioned common sense, coupled with the ability to know a good thing when one sees it. If the farm expert's record is good, and his ability indicates that he can help to increase the efficiency of your farmng then perhaps, if you are willing to follow his advice, he can do you some

If it is natural for the cow to give milk right up to the time for dropping her calf, it will mean a detriment to her if she is checked in the milk flow. If her natural course is to go dry, it will mean a deranged system if she is forced to produce milk.

The Detroit Mortgage Corporation, located in the Real Estate Exchange Building, Detroit, Mich., have been appointed lower Michigan representatives of the Federal Land Bank of St. Paul, Minnesota, to make farm mortgage loans. Their farm mortgage department will handle this business.



### Satisfaction Assured In Advance

It is a fact that Lalley-Light usually finds preferance among those thoughtful farme is who are regarded as neighborhood leaders.

It is not hard to understand why.

The man who seriously looks into the electric light situation discovers that Lalley-Light has been in successful farm use for more than seven years.

He hears it well spoken of everywhere it is known.

He learns that faithful, year-toyear service and economy are the experience of Lalley-Light user.

He receives the impression that he would be entirely safe in investing in Lalley-Light.

He accepts these things as actual advance assurance of his own future satisfaction.

In reality, they are exactly that. For Lalley-Light satisfaction proably approaches 100 per cent as it can be approached.

Never was the need for Lalley-Light so imperative as now.

Farm labor is scarce. Lalley-Light saves labor by supplying the power to do much necessary worh.

Farm products and farm buildings are more valuable. Lalley-Light safeguards them by removing the fire risk entirely.

Lalley-Light brings to the farm a score of conveniences and comforts that only electricity from a wholly dependable plant can bring.

In addition, it has its own evclusadvantages which the nearest Lalley-Light dealer will gladly demonstrats and explain.

Write us for his name, and for complete details.

Look for the Lalley-Light demonstrating exhibit at your state or county fair this fall.

### Lalley Electro-Lighting Corporation

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Michigan Lalley Light Corp.

Care of Becker Auto Co.,

Grand Rapids, Michigan

# LALLEY - LIGHT THE ELECTRIC LIGHT AND POWER FOR EVERY FARM



LEARN AUCTIONEERING

Generating plant is 27 inches long, 14 inches wide, 21 inches high. Storage battery is included in complete outfit.

at World's Original and Greatest School and becom ndependent with no capital invested. Every branc of the business taught. Write today for free catalox IONES NAT'L SCHOOL OF AUCTIONEERING S N.Sacramento Blyd., Ohicago, III. Carey M.Jones, Pre50 good Belgian Hares, and other large Rabbits, also some fox and Rabbit hounds, enclose stamp. W. E. Lecky, Holmesville, O.

Wanted farm help, married man, steady work, near Milford, Write F. J. BARRETT, Detroit, Mich., Davison, Blvd. & Gr. Trunk R. R.

Potato Digger for sale—Nearly new Hoov 32 Edmonton, Detroit, Mich. Tel. Garfield 1416W.

SHEEP

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

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

Choice Oxford Yearling Rams For Sale

For Sale. Eight thorough bred, registered ramboullett yearling rams \$65 per head.

J. W. GRAHAM. Davisburg, Mich.

RAMS Sired by a ram previously used at M. A.C., well built, splendid covering, good size, and registered in the Standard Delaine Register. Can furnish car load of good rams.

C. R. PARSONS.

Registered Hampshire ram lambs for sale. Weighing up to 130 lbs. Aug. 10th., at \$25.00 and up. Also a few yearling rams.
OLARKE HAIRE, West Branch, Mich.

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

### A Special Clubbing Bargain

Regular price ......\$4.25

OUR PRICE ONLY \$3.25
Send all Orders to
The Michigan Farmer, Detro't

# Winter Activities for Gardening Clubs

By R. N. KEBLER

terminated in the fall of the year, cal drawing. leaving no project for the long winter At another school, Grand Marais, are often difficult to obtain. But the practice followed. following experiences will offer ample The only school which did not have sleds, etc. port kept and a story written.

The club at Birch had no leader at cap of possessing only one arm. standing beside the work bench which ishing their articles at home. he constructed, having used a bought-

activity for the Potato and tables and drawing boards and com- The following figures will serve to make them. The only trouble I had Gardening Clubs, whose work pletely outfitted a room for mechani- illustrate what was accomplished dur- was after I was almost finished with

months. Consequently, the Handicraft there were forty children under one one hundred and fifty completed, sev- the floor, I realized I hadn't made my Club was introduced last fall into thir- local leader and he managed to bring enty-four per cent of these took up stool quite solid enough as I had split teen of the rural schools of the upper thirty-six of them through with their gardening or potato growing this the seat. But I started all over, and peninsula. As this section of country five necessary exercises. This was spring. is a great lumber-producing area, this done by what he called the "squad project was welcomed with a great system of organization" and was ar- articles, some of which were: deal of enthusiasm on the part of the ranged by having the boys divided inclub members. However, some of the to the groups of eight. The oldest holders, 54 bird houses, 34 cultivators, greet a boy coming home with a leaders and other interested persons member of each squad was the leader, 60 cribbage boards for our soldiers in broomholder or a plant stand. were likely to regard this project in a who was trained by the teacher, who France, 23 book racks. There were discouraging light, thinking it require in this case was local leader. They in other articles made, such as grain ing to be book-cases and chests. We ed a great deal of equipment, as well turn took their squads to the handi- sack holders, wagon jacks, Ford jacks, are all hoping that our present princias skilled leadership, both of which craft workroom where instruction and sleeve boards, drawing desks, library pal is back with us. We work only

explanation for the objections that a set of tools furnished them by the commonly arise. These Handicraft school board was Quinnesec. In this this work is well expressed by the fol- give any hard part up as a bad job. Clubs, of course, are conducted on the case each boy brought as many tools lowing story written by a member of same principles as all other Boys' and as possible from home, and in this the Perkins' Club, Arnold Trudell. Girls' Club work; that is, a certain way managed to get a complete set. number of articles were to be complet- This cooperation, one with another, ed in a certain length of time, a re- seemed to work out well, as they were Boys' Carpenter Club, I am anxious to frown or saddened face, always a "champion team" of the state. They have someone else interested. If any- broad smile or one of those 'Edison In Foster City, the local leader could are seen in the picture, each boy hold- one should ask me why I joined the looks' when he bumps up against a

pleted, even with the serious handi- a handy man.

In every school, the local leadership nice as any you can buy. was taken up by the teacher or jani- "Not any of the articles we made

ing their club season.

They made six hundred and eighty

My Story.

not read English. Nevertheless, he ing the cultivator made by himself. club and why I was so interested, I hard job. was competent with tools, and as the One of the photographs show a Big would simply answer, 'I am going to boys read the directions, he instructed Bay member and the articles he com- be a real carpenter some day; at least him join the Carpenters' Club and be-

"What is handier than a broomclub, with the assistance of the teach- end of the science table and the chil- wants to be without them, but still following instructions which he wrote; er, took the leadership. He is shown dren worked mornings, noons and when she has to buy them, she has to in one of the accompanying pictures nights after school, many of them fin- pay three times what we would sell

HERE arose a need of a winter The Vulcan Club boys made their tor of the school, or some carpenter, are difficult after you know how to my milk stool. I tried to test it by One hundred and sixty-nine enrolled, falling on it, and when I landed on now I dare the heaviest man to test it.

"We can make use of every single thing we hammer on-my mother can Thirty-eight milk stools, 108 broom- -and I know any boy's mother would

"The next things we make are gotables, rabbit traps, skees, trap nests, out of school and sometimes we forget to go home to supper. But I The attitude the boys take toward would rather go without supper than

"Our motto is, 'Stick to it.' have the finest place to work in. It is well lighted, large and full of cheer. "As an interested member of the You never see a boy in there with a

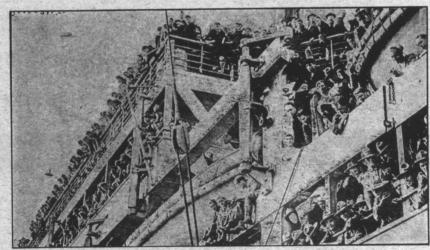
"If any boy wants to be a man, let gin hammering."

One of the first steps necessary in all, he having been called by the draft The Diorite school did not have an holder, fly trap, iceless refrigerator, the Handicraft Club is to teach the after the first few lessons had been extra room in which the club could plant stand, and all these other aticles members the care of tools. One boy's given, whereupon the oldest boy in the work, so a vise was attached to the we have made. I know not a woman ability along this line is given in the

The Care and Use of Tools. "Tools, as well as other farm impleours for. And I dare say ours are as ments should be carefully taken care of. It is not a good policy to buy (Continued on page 262).

### WORLD EVENTS IN PICTURES





Some of the great number of cannon captured by General Mangin's army in the Marne battle in July.

American soldiers on transport approaching a French port, are in good spirits as they crowd to the rail to get their first look at the country of their chivalrous ally, France.

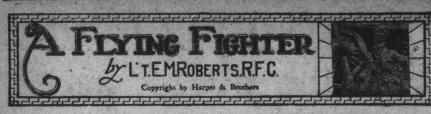


President Wilson whistles during the launching of the first boat at the Hog Island shipyards.



This long stream of khaki clad soldiers landing on French soil is our answer Front view of bank building wrecked when a cyclone swept over the town to the defiant Huns who said "it couldn't be done."





(Continued from last week).

very serious mien and asked for his around us. told him to let go of the tail when I them. under the wheels when I waved at him that a good many people had been kill-dived under it and took it under fire with my hand.

man began to run.

throttle and started after the farmer, in that section. who was then going at a rate of at least twenty miles an hour and was as I got up off the ground I took and of us got the chance we were chan who had to that he had caught his fact. that he had caught his foot on somesault and then measured the remainder raiders were coming. Those of us who man in the German machine got in his of his field to the fence by rolling all over himself. I turned back over the field and flew in a circle to see if he was hurt, but by the time I got over him he was on his feet again, shaking both fists at me. I made another flight over the field, wondering what made that man so mad, and then I noticed that something else was occupying the old farmer. The noise of the motor and the size of the huge bird had stampeded the cows again. Since I did not want to torment the old man any more than was necessary I made off for good, though I should have liked to hear what he had to say of me after that. There is no doubt that he wished I would break my neck or do something similar, but I finished my trip without further mishap.

in the morning, and we were near our destination when I saw a flock of Huns badly smashed up. coming inland from the sea.

tremendous crash.

officer to get ammunition when an or- The Huns were a little to one side sure of his Hun. His observer, anothmachine destined for the troops in had flown towards the sea were on slightly wounded. Ham's airplane had France should go up. That order had their flank. The man in the other bus about twenty hits to my seven. hardly been received when another was old Ham, as I learned presently. On the day following the big raid I crash came, and this time we took to He had a faster machine than I had was sent to the coast with a machine our heels across the aerodrome. We and was endeavoring to get above the and returned early that afternoon. An- "I didn't like to interrupt the lady." were near the other side of the field Hun formation. After a while he suc other plane had to be taken to an aerowhen a third bomb crashed to the ceeded, and then he dived through the drome. I had gotten to the level of ground and exploded near us; so we Hun machines and separated them. Af- seven thousand feet, and everything ran back like mad. The Huns aloft ter that the Huns proceeded in groups was going along smoothly at a speed seemed to have it in for us, and our of four and five. Meanwhile I had ov- of about one hundred miles an hour, boating with sister, Mr. Slowboy. running about merely showed them ertaken one of these groups for the when all of a sudden the engine burst, that their bombs were having some purpose of cooperating with Ham. and I thought for a moment I was hit why not, Sammie? effect. Then somebody shouted:

"Lie down! Lie down!"

I decided to try a little strategy on caustic remarks, and we had hardly

name and address. That helped. Of By the time that the necessary am- coast. a sudden he grew very cordial and ev- munition had been issued to us and en invited me to come into the house we were ready to take up the chase of this machine was not to get away. The passed from one loop into another, for lunch. Being very hungry I ac- the Huns they were well on their way bombs had been dropped for the pur- skidded sideways, then sailed on its cepted that invitation. After lunch I home. This raiding party was never pose of making the aeroplane lighter tail for a second, righted itself again, repaired my motor and then got the caught by the patrols in England and enable it to rise more easily. The and kept plunging earthward faster old fellow to hold down the tail of the though those in France spotted them bombs had hardly exploded beneath us with every second. To my own surbus while I started the engine. I had and gave battle, bringing down two of when the Hun machine started upward prise my presence of mind did not de-

motioned, and to take the sticks from On the following day we learned chine was in proper position for me I ed in Folkestone, and that consider- from below. I had not spent many Everything progressed finely until able damage had been done by the rounds of ammunition when I noticed the farmer went to take the sticks raiders. The result of our experience the rear gunner in the Hun machine from under the wheels. He managed was the issuance of an order that in roll to one side; then he disappeared to get one of them away, and he was future all machines flying in England in the cockpit. At the same time the just starting for the other side when or being ferried to France were to machine began to fall. But just then the machine started to turn, pushing carry ammunition. Most of the boys my gun jammed and before I succeedthe other stick out of the way. As were praying for a chance to get even ed in getting it to work again the Hun the machine began to move the old with the Huns. It was the first time had managed to get such a start over Since I was in the wind I opened the raid upon England and did any damage given credit for helping to bring down

### CHAPTER XX.

lets which the Huns used.

I manoeuvred upward and got a new for a few seconds until I had gotten position, but before I once more came some of the oil out of my eyes. An within fairly good range of the Hun examination of the various controls him. I took out my notebook with a obeyed it when more bombs dropped machine the men in it dropped all showed that the machine was totally their bombs into the marshes along the unmanageable. I was falling falling

> that Hun flying machines had made a me that pursuit was useless. I was one Hun by the commanding officer of from an Atlantic port: the squadron, as someone else had fought him at a lower level.

looking for. Early one morning "Sopwith pup" had gotten under the thing or other. He turned a somer- the alarm came that the German air tail of one of the Hun machines. The

In Battle Formation.

accidents in which three men were learned that he had been killed.

My machine had a gun, but I had no about at an elevation of sixteen thou- the naval gang patrolling the coast of along a well-filled lunch basket. The ammunition. We were near the aero- sand feet. In our hurry many of us France mixed in with them on their re- crowd became very dense, and feeling drome to which we were to take the had not taken the time to put on our turn home and brought three of them machines and dove down to it with all heavy flying clothing, and these men down. possible speed to get ammunition. The came near freezing to death in that The jamming of my gun had obliged other men had also seen the Huns and high altitude. We had cruised around me to quit the fight early. I made for were coming after me with all possible for nearly an hour and a quarter when the nearest aerodrome in the hope of in this crowd?" speed. We had just landed in the aero- I saw one of our machines make a getting another chance at the Huns bedrome and were taxiing our machines straight lipe for the sea. I followed, fore they escaped, but the all clear sigto the shed, when a Hun bomb struck and before long I was able to count nal came before I got off the ground. in a nearby field and exploded with a twenty-two Hun machines coming to- As the boys came in we heard very wards us. I recognized them as the interesting accounts of the fight, but

The order was accompanied by some took a dive during which I hoped to pletely covered my goggles that I could she was going to throw you overboard.

A few days later I was to take an- had machines that were ready went up burst first and our poor chap got his in other machine to the coast for delivimmediately, and others went up in the head and started to spin earthery. Three other machines were in machines that were not ready, the re- ward; I watched him until he was out the group. We left about eleven o'clock sult of which was three rather serious of sight in the mist. Afterwards I

But a few of us got up and cruised before they left Allied territory, for spending the day there, they brought

I had gone to see the commanding big bombers used by the Germans. Ham was the only man who could be telephone that no of us, so that I and the other man who er man who was later killed, was

put him out of action with my gun. not see. As I felt about my face I But as I plunged towards the machine noticed that something was hanging in I found that I had run into a wasp's front of me. The next thing I came to nest; I noticed that the air was full of understand, after the first shock was blue streaks made by the explosive bul- over, was that the motor was no longer running. My feet had been forced off I decided that I would have to climb the rudder control. I groped around again and try to take him unaware, to find the stick but could not find it in such a manner that earth and sky It was necessary to act quickly if seemed all mixed up. The machine in a spiral. When I thought the ma- sert me. One moment I seemed to be (Continued on page 259).

### "By the Way"

U. of C. STUDENT WARNS THE KAISER.

To show the kaiser where "he gets off," J. B. Loftis, a student at the University of California, who started for Berlin, sent the following lines back

"We are coming, Kaiser William, Ten hundred thousand strong; Our boys are going over To show you where you're wrong. The laws of God and nations You set aside and scoff; We'll show you, Kaiser William, The place where you get off.

"We are coming, Kaiser William, We warn you to beware; Our soldier boys are eager To meet you over there. So, for the cyclone cellar You'd better make a dive; There's something coming to you As soon as they arrive.

"We are coming, Kaiser William, To right a grievous wrong; We are coming with the spirit That moves the world along. To wipe out German kultur
Our boys will cross the sea,
And in its place establish
A world democracy.

"One million strong we're coming To end this bloody war, And if it's necessary
We'll send a million more We are coming, Kaiser William,
To run you out of France,
So paste this in your helmet:
You haven't got a chance."

#### SAFETY FIRST.

A certain (F. W.) a representative of an agricultural paper took his fam-But the Huns got their punishment ily to the State Fair, and as they were that they would become separated, the head of the family said: "Give me that lunch basket, wifey; don't you see that we are sure to lose each other

#### DISMISSED.

A certain defendant acknowledged that he hadn't spoken to his wife in five years, and the judge took a hand from the bench in examining the witness.

What explanation have you?" he said severely to the defendant, "for not speaking to your wife in five

"Your Honor," replied the husband,

#### WATCH YOUR STEP.

Small Sammie-You'd better not go Slowboy (sister's admirer)-And

Then I picked out another, and went by an "Archie." The same instant eas- Small Sammie-'Cause I heard her to work on him. I was above him and tor oil flew all over me, and so com- tell Cousin Clara this morning that (Continued from page 258.) sailing towards the sky, while the next left no doubt at all that I was rushing towards the ground.

. Presently the machine began to swirl around on its own axis while describing the regular spirals or spins.

I wondered how soon it would be over.

Another moment or two and then the crash would come.

I have never been much of a praying man, but then and there I said my little "Now I lay me down to sleep."

It was the only thing that came to my mind.

Then the thought occurred to me that I ought to make another effort to right that machine, but in an instant I had discovered that it was useless.

Through my mind flashed every experience I had had, and I remembered how the boys had asked me what flowers I wanted for my funeral. I was just wondering what difference it could make to a man what flowers he might get, when all of a sudden the machine righted itself and began to sail upon an even keel.

That fact restored me to normal. It flashed over my mind that I had just made a glorious nose dive, and I once more sought the control. But the stick would not move. As we say in the service, "it had taken the bone in its teeth," and that being the case there was nothing I could do to keep the machine righted. I was heading for the ground at the rate of about one hundred and twenty miles an hour, and, strange to say, had now given up all thought that I would be killed by the fall. I pictured the surgeons pulling struts out of my back and connecting rods from my knees. The thought filled me with a very peculiar fury. I would not go to another hospital if I could prevent it. No, not if I had to break every control in the machine!

The machine was now diving toward some trees standing by a roadside. I feared that I would hit the first of them, but the machine just cleared them. Just as it "zoomed" over the top of the tree the displacement of air from the plane waved the tree-top, so close did it pass. I was not far from the ground now and still going at terrific speed. I would give those levers another try, I thought. I tugged away at them with all my might but not a one of them responded. The machine hit the ground and a hedge just as I was straining every muscle at the controls. The first contact threw me out of the cockpit. After describing three somersaults I landed on the ground, striking on my shoulders and neck. My escape had been truly miraculous, so much so that I began to feel myself all over in an effort to find the bones which I thought were surely broken. I felt no pain, and so with that I finally concluded that I was still whole. I lif a cigarette and then walked over to view the wreck of the machine.

I saw that it could be written off the lists. I found that a defective tappet rod had caused the trouble, cutting the cowl around the engine, which revolved at the rate of thirteen hundred revolutions a minute, and that in some manner, which will never be explained, the propeller got tangled up with the machine gun and that the force of this contact strained every part of the machine to such an extent that it became unmanageable, allowing the engine to fall back on my knees and push my feet off the rudder control.

Some people came tearing down the road in a motor car. One of them was a doctor, who insisted that I should come over to his house for an examination. I had convinced myself that I was still in working order, but I wanted to reach the headquarters of my squadron by telephone, and for that reason I gladly accepted the invitation of the doctor.

(Continued next week).



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### Salt Down Surplus Tomatoes

salted tomatoes may not equal fresh the flavor, though different from that fore using. of the fresh vegetable, is good. If put up as directed they will keep their crispness and color.

#### General Directions.

or horseradish.

Weight with a clean stone resting covered with brine.

and examine once or twice a week for cess salt seasons other ingredients. a month.

to one gallon of above solution.

#### Green Tomatoes.

Salted green tomatoes may be made into tomato stew, stuffed tomatoes,

toes in brine is exceedingly sim- and pack in salt solution. Green to- rice, well seasoned with onion and ple and the only equipment matoes packed in salt-and-vinegar so- paprika. Place the tomatoes in a bak-

in quality, they help materially to green tomatoes will be slightly discol- and bake it slowly until the tomatoes build up the food reserves and, when ored but firm and of good quality, are tender, about one hour, they are well cooked and seasoned, Soak in cold water for two hours be-

#### Ripe Tomatoes.

Gather when in the best condition and your tomatoes will be firm and of ed green pepper that has been preand pack while they are crisp and good color when removed from either served in salt-and-vinegar solution and tender. Cover top with grape leaves, the brine or the salt-and-vinegar so- rinsed but not soaked, and with celery lution.

on an inverted plate. Do not allow solution generally require soaking for serve the tomatoes on lettuce or finely molds to form, and keep vegetables two hours before being used. After sliced cabbage. this soaking the skins slip off easily, When all bubbling has ceased about and the tomatoes can be used as a week after packing, cover the sur-though fresh. For soups or scalloped face of the brine with cottonseed oil or or casserole dishes, soaking for one melted paraffin. Store in a cool place hour is usually sufficient, for the ex-

Ripe tomatoes preserved in the salt-For the brine allow one and two- and-vinegar solution require soaking thirds cups of salt to one gallon of for only about thirty minutes. When water. This is a ten per cent salt used in combination with fresh vegetables they need not be soaked at all. For a salt-and-vinegar solution al- The skins slip off easily, and the flesh low three-fourths of a cup of vinegar is firm. The color and the flavor of the tomatoes are practically no differ- and chop them fine. Chop the apples. ent from those of fresh tomatoes.

#### Stuffed Green Tomatoes.

breaded tomatoes and salad, or con-hours. Remove a thin slice from the a covered jar.-U. S. Food Administraverted into mincemeat and chutney, top of each, take out the seeds, and tion Bulletin.

HE process of preserving toma. Choose well-developed green tomatoes fill the cavity with a mixture of boiled needed is good water-tight kegs. While lution are good for salads and relishes. ing dish, and add sufficient stock to When taken from the brine the almost cover them. Cover the dish,

#### Ripe Tomato Salad.

Use tomatoes that have been preserved in salt-and-vinegar solution. Select medium-sized ripe tomatoes Soak them for thirty minutes. Peel free from cracks or bruises and pack them, and remove the stem ends and in brine solution. Follow directions the seeds. Fill the cavities with mincmoistened with salad dressing. Place Ripe tomatoes preserved in the salt a spoonful of the dressing on top, and

#### Mock Mincemeat.

- 3 pounds salted green tomatoes
- 2 pounds apples
- 1 cup chopped suct. cups molasses
- cup corn syrup
- pound raisins
- cup vinegar
- teaspoon cloves
- tablespoons cinnamon
- teaspoon allspice 1 teaspoon nutmeg.
- Soak the tomatoes for two hours, Add the other ingredients, and cook the mixture until it is thick. This Soak salted green tomatoes for two mincemeat will keep for some time in

### Pillows for Soldiers

Did you ever have an accident or a days? Do you remember how you ached just from lying in bed? Perhaps mother or grandmother tucked pillows around you and you can recall how those pillows eased you. If you can you know just how the wounded soldiers must need pillows-hundreds of them, all shapes and sizes. There's the "splint" pillow and the knee or elbow pad with the little hole in the center like a doughnut, and the ordinary feather pillow-13x17 is a good -but the easiest pillow for girls and boys to make is the "snippings" pillow. Even the small folks who love to cut can help make these. Use the scraps from the handkerchiefs and other articles you have made and the old cloth too worn for other use. Only white or very light rags will do and all the seams and tucks must be ripped or cut off or the pillow will not be soft. Now sit down with a sharp shears, a newspaper on your lap, and a sack—a flour sack will do-beside you. Cut or snip the cloth into little pieces of one square inch or less, just as though you were cutting the ends off of carpet rags. These little clippings don't need to be the same shape or size but they must be small. As you put them into the sack you will notice when you reach your hand in how soft they are-almost like feathers.

A "snipping" party is lots of fun. The boys might snip against the girls. Who do you suppose can snip the fastest? Be careful about the sharp shears. Cloth and hands must be clean. Don't put the cloth on the desk or on your lap but always on a clean paper.

And don't let dust get into the bag. cause colored lint might get into a



THIS gown is of black satin with the new panel effect in back and front. Tiny self-covered buttons outline the panel which is finished across the hem with heavy silk fringe, a favored trimming this season. The skirt is draped in soft folds at the sides. The normal waist line has a crushed girdle, and the V-shaped neck is finished with a white satin collar.

sickness which kept you in bed for Colored material must not be used be- wound and poison it. White cotton or percale will make a good tick for a clippings pillow, but regular ticking must be used for feather pillows or the feathers will come through. The snippings pillows must have an outside case just like the feather pillows. White cotton or percale will be good for the pillow cases. You can make them in sewing class. After you have stuffed the ticks-not too full or they'll be hard-sew them up with strong thread and be careful to fasten all the threads so the work will not rip. One of the greatest troubles with much of the Red Cross sewing is the rippea places where the thread was not well fastened at the beginning and the end of a seam. Think of how ripping accidents will bother over there where everybody is so busy.-H. Henderson.

#### STRETCHING THAT SUGAR AL-LOWANCE.

How have you solved your sugar problem?

many families have not solved it. They have simply said,

"It can't be done. We eat more than half a pound a person right on the table every week, so how is a body to do. any baking or cooking if they eat up more than their allowance right on the

Where sugar cards are not in force these earnest souls spend more gray matter studying ways to cheat the government and get more than their share of sugar than they would need to think up methods of getting along with their half-pound a week. If they happen to live in a county where sugar cards have been issued they sit around and grumble and patronize the bakeries.

In one county where sugar cards are has an individual sugar bowl. On the sumed. day sugar is bought each person has Apples with Bacon.-With crisp baone-half his half pound put in his sug- con serve apples, piping hot and burstar bowl for table use. The rest is put ing with juice, baked without sugar. in a jar for baking at the end of the Or cut the apples from the core withweek, if enough is left. When the out peeling, place in a deep pan with sugar bowls are empty those who want a very light sprinkling of sugar and can have them filled again. But if half a cup of water. Cover and steam they do, they get none of the cake or until tender; remove cover, sprinkle cookies which are baked from the sup- top with brown sugar or brush with ply of other members of the family- syrup and brown in hot oven. Serve the penalty of indulgence.

Usually the half cup lasts the whole that cereal tastes really better with a until just tender through make an aphalf-spoonful of sugar than they did petizing sauce for meats. Peel but do her coffee, and father takes black cof- of sugar to a dozen peaches or pears. fee and uses the sugar on the cereal. Steam until tender and serve hot. Be Fruit is consumed "au natural" intead careful not to overcook. of having all taste buried in sugar and Plums with Chicken.-Blue plums drowned in rivulets of cream.

Also fudge making is a lost art.

still less like the year before last. But and cook until plums are broken. everyone is in good health and the Serve hot. Peaches or apples quartersugar regulation is observed. Best of ed and cooked clear in a syrup of waall, to mother, she isn't spending near- ter, sugar and a bit or lemon make a ly so much time in the kitchen with a delicious accompaniment for chicken.



Educate the family to demand fruit used one family has solved the matter acids as an accompaniment of meat to this way. Each member of the family replace part of the starch usually con-

from dish sizzling hot.

Peaches or Pears with Roast or week. The children have found out Steak.—Ripe peaches or pears steamed with one and a half or two spoonsful. not cut. Cook in a saucepan, tightly Mother takes her cereal with no sugar covered, with just enough water to so as to have a spoonful and a half in prevent burning. Allow one tablespoon

are especially good with chicken. Add a very little sugar and little or no wa-It is not a bit like last year, and ter. Heat slowly to prevent burning Serve rice with this combination.



Next jack up car, bringing tires into contact with rollers.

Wednesday, September 11.

Storms and a stiffening of the defense are slowing up the Allied advance as they approach the old Hindenburg line. The French, however, have improved their position about the St. Gobain forest, which protects the southern end of the above line, while the British have worked their way to within three miles of St. Quentin.—Announcement is made that registrants eighteen years old and men thirty-seven years and over will not be called on the next draft.—Secretary McAdoo calls on congress to reduce the proposed tax on Liberty Bonds.—Twenty-nine Russian chiefs are re-

McAdoo calls on congress to reduce the proposed tax on Liberty Bonds.—
Twenty-nine Russian chiefs are reported slain by the Bolsheviki authorities.—Strike of 1,000 employes ties up Canadian Express Company.

Thursday, September 12.

British troops on the north and the French troops to the south are in a hard race for the prize of St. Quentin. Both armies are making consistent advances which movements are outflanking both St. Quentin and St. Gobain.—
It is unofficially reported that the Ex-Czarina of Russia and her four daughters have been slain by the Bolsheviki. In round numbers 13,000,000 men in the United States, of whom 500,000 are in Michigan, register under the new man-power act for government service.

Friday, September 13.

American troops under General Pershing capture eight thousand prisoners and smash to within ten miles of the German fortress of Metz in their drive to reduce the St. Mihiel salient east of Verdun. This fight widens over a front of fifty miles with our troops advancing to within a mile of the German horder.—Emperors of Germany and Austria are in conference to prepare a new peace move, according to

war industries.

Saturday, September 14.

Americans succeed in blotting out the St. Mihiel salient, capturing so far 13,300 prisoners. The front line of our troops is now facing the enemy's border line, in spite of the order to his troops to "hold or die." French and British slowly work their course around St. Quentin.—Representatives of milk producers from various parts of the United States are in conference at Washington with the federal food administration discussing the milk situation of the country.—Vigilance on the part of our State Dairy and Food Department and county officials is resulting in the capture of large quantities of liquor being smuggled into Michigan.

Sunday, September 15.

Sunday, September 15.

In their drive toward Metz the American troops have already captured seventy French towns and villages, 210 square miles of territory, taken 20,000 captives, including 5,000 Austro-Hungarians, and found great stores of war materials. French strike a new blow south of the St. Gobain forest, moving forward from two to three miles on a front twelve miles long. Two thousand prisoners are taken. British also advance between Cambrai and St. Quentin.—The production of coal in the United States for the year will be 17,000,000 tons short, according to Washington estimates.—Proofs removing all doubts that Lenine and removing all doubts that Lenine and Trotzy, the Bolsheviki leaders, are paid German agents, are now in the hands of the authorities at Washington. They show these men were paid \$25,000,000 to betray Russia into the hands of German was a fine to the short of German was a fine to the state of German was a fine to the state of German was a fine to the short of German was a fine to the state of the stat hands of Germ ly

Monday, September 16.

Belgium receives a direct offer of peace from the Kaiser, while Great Britain gets a note from Austria pro-Britain gets a note from Austria proposing terms of peace. American guns are now bombarding the German fortress of Metz. Pershing's men move forward on a thirteen-mile battle line. French capture 3,500 men in continued drive along the Aisne river.—Bolsheviki leaders leave Mose w because of growing unrest in Russian capital.

Tuesday, September 17.

the German fortress of Metz in their drive to reduce the St. Mihiel salient east of Verdun. This fight widens over a front of fifty miles with our troops advancing to within a mile of the Germany and Austria are in conference to prepare a new peace move, according to dispatches through the Scandanavian countries.—President Wilson signs the law creating dry zones about shipyards, munitions factories and other war industries.

Saturday, September 14.

Tuesday, September 17.

American troops are consolidating their lines along the Moselle river north of Pont.a-Mousson near the Lorraine border facing Metz. British and man border.—Emperors of Germany American bombing machines are shelling the lines of communication toward Metz. The British make small gains east of Ypres. French have advanced nearly a mile in the vicinity of Laon. French cooperate with Serbs in opening an offensive in Macedonia against Bulgarians, with some success. In Russia many Bolsheviki leaders have been executed, and Lenine, re-In Russia many Bolsheviki leaders have been executed, and Lenine, recovering from wounds inflicted by a would-be assassin, advises his associates to form a defensive and offensive alliance with Germany. The Czecho-Slovaks are steadily gaining in numbers and strength. Poles endeavor to raise an army of 100,000 to assist Serbia.—President Wilson rejects Austria's peace proposal for a peace parley, submitted through the Swedish minister. Balfour, British Foreign Secretary, says there is no way open for the acceptance of Austria's proposals.—Twenty-six ships with an aggregate tonnage of 140,520, have been delivered to the shipping board by American yards since September 1.



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MALL BOURTHEST Lated to the state of the sta

### How We Made Our Garments

Garment-making Club for three ed on. years. My mother and a neighbor

and shirt waist.

First came the corset cover for which I crocheted a yoke. I cut the corset cover out and sewed it up. I next hemmed the yoke on, which was the hardest part, made the buttonhole one third. for shir string and the garment was

The second garment was the dress. both cuffs all on when I found that I had one of them on upside down. Of course, that meant that I had to take it all off and fix it. I felt very much discouraged when I found that I had to take it off, but I did, and afterwards was glad, because I did it better the last time than the first.

When I came to make the skirt I found that I did not have cloth enough and the storekeeper that I had bought the first cloth of had gone out of bus. sew, also Mr. Turner for his help. iness. I had planned to have a plaited skirt but as it was I had to have a gored skirt. In order to have stripes match I sewed the gores on by hand.

My last garment was a white waist. was planning to crochet the lace for place in State Contest. First I cut it out and sewed it up. I it, but it was getting so near the time for me to have it done, that I decided to buy the trimming. I had everything done except the lace on the fifo'clock at night and by the next Sature with the idea in mind that perhaps I ing it that I thought I would not have first place in the junior class.

We had very good times at our club ject of garment making. last pot-luck supper. The twenty-second of September all of our garments went to the local fair where I received two first prizes and one second. At the county fair I received two first and

The object of the girls' club work is to teach them to do things for themselves. All girls like pretty clothes, and if they learn to make them thempared for the stitching. I had gotten selves, they can just get what they want, and at less expense, as readymade are very expensive. Before I began the club work I had no idea how to sew, not even how to hold or use a thimble, but now I understand sewing. I also understand the correct way to use the sewing machine, do hand-work, and cut and baste.

> I feel that I owe a great deal to our leaders for the interest and patience they have taken in teaching us to

Since I have had three years of sewing I think next year, if convenient will take up the canning project.

Written by Miss Gladys A. Westcott, Jerome, Mich., R. F. D. 1, Hillsdale County Champion, 1917, and third

-at least not any more than I waste of time. teenth of September, so I thought I could help-but I began to realize that

HAVE been a member of the Girls' day I had it all crocheted and sew- might learn by doing, and might also it done for exhibit. However, I had it enjoy sewing better, I took up the pro- done, by "cramming," as we speak of

1917, with sixteen girls responding, but invited. Mr. Turner, the county lead-duty to learn to do, at least, her own third prize on them. only ten finished. We decided to make er of the Boys' and Girls' Club work, sewing. The majority of girls are the corset cover, dress, (or sport suit) came to some of our meetings and the sometime going to be wives and moth- this summer at our meetings, besides good way to learn was to take up sew-training. ing as a project.

> The first thing I decided to make was an underwaist, and as I was not experienced in sewing, I did not know how much work it would require. sewed on lace and insertion until I could sew over and over with my eyes shut, and the worst part of it was, I got one part wrong so that I had to rip it off twice. The most difficult things were the buttonholes and the first ones I made looked like oblong holes; but at last the garment was done and it looked quite presentable, and I had learned many things which will never be quite as difficult as they were the first time.

The next garment I made was a nightgown and there was not as much work on this as on the underwaist so thing about it was, there were no but- phase of the work should follow the tonholes to be made. I had some trou- close of the season's work without hardest things to do was to baste ev- conducted before Christmas. Reorerything before it was stitched; but ganization should begin in January. our club leader said that was the only HAVE always disliked sewing and way to learn, and I believe it is, al- Demonstration Teams competed at the I have never done very much of it though it sometimes seems like a big State Fair at Detroit. The champion-

I decided to make a shirt waist for

in school. My garments were exhibit-Another reason that I took up this ed at our local club exhibit and at the lady have been the leaders each year. meetings. Twice we had picnic sup-Our club was organized on June 6, pers. The last time our mothers were project was, I believe it is every girl's Hillsdale County Fair, and I was given

We have had some jolly good times ers and it is their duty to fit them- our training in sewing. At some of selves for this work in the best possi- the meetings we had programs, which ble way, and so I decided that a pretty was another way in which we got good

> I believe next year I could make an improvement in my garments by making a better looking inside to them. I used to think that it did not matter how the inside looked but I noticed that the judges looked at that first. and I have also found that home-made garments are made much better than ready-made ones and that they are also not as expensive, and so I think a good way to be economical in these times, when we must conserve everything is by making your own garments.

> Written by Meriel Payne, Live Wire Canning Club, Hillsdale, Michigan.

#### CLUB NOTES.

BY E. C. LINDEMANN.

All clubs should hold their annual I made it in a short time, and the good exhibits as soon as possible. This ble in stitching straight and one of the loss of time. All exhibits should be

> Over thirty Boys' and Girls' Club ships will be announced later.

In the State Live Stock Judging would try once more and make it, so I some day I would have to do my own the third garment and so I began mak- Contest the team from Clinton County took it to school every day and worked sewing or hire it done, which is not a ing tatting for it. I found this to be a won first honors in the senior class noon and recesses, set up until ten very satisfactory way of doing. So, very slow job, and I was so long mak- and the team from Kent county won

tools, if you buy at all. The tools should be well oiled so they will not ing Clubs get rusty. They should be rubbed ing with pulverized pumice stone, which is sold at all drug stores, for rubbing down to a fine finish. All tools that have an edge should be kept well sharpened. It will be found that much time is wasted by using dull tools, and lost time is never found again.

'Care should be taken that the edges of planes, bits, chisels, etc., are not dulled by using them on boards that have metal or dirt on the surface. All nails should be taken out and all dirt should be brushed away. A plane should never be used after sand paper has been rubbed on the board, because there are some particles of sand left on the board and it will make the plane dull. If the tools are dull, they can be rubbed on an oil stone or else on a grindstone. Saws must also be kept sharp."

A Chicago mail order company con-

### cheap tools for they will soon get worn out. It is best to buy a good set of Winter Activities for Garden-sidered the handicraft project of enough importance to offer twelve tool (Continued from Page 257.)



Uncle Sam's Helpers Two Months After Organization.

sidered the handicraft project of chests for the best clubs in the state, no two clubs in one county to receive a chest. The caliber of the work in the upper peninsula was of such a nature that five of the twelve chests were awarded to Alger, Delta, Dickenson, Luce and Marquette counties re-

Competition developed throughout the Handicraft Clubs of the entire peninsula when it was announced that the State Fair would pay the railroad expenses for the two best demonstrating teams, including local leaders, to attend the fair. The object of the trip was for them to demonstrate the making of a Michigan Garden Boy Cultivator, several lower Michigan teams competing there with Quinnesec and McMillan teams of the upper peninsula for state honors.

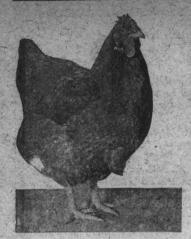
Watch for what the boys have to say in a later issue about their Detroit trip and their experiences at the State Fair.



Quinnesec Patriotic Club and the Exercises they Completed.



Quinnesec Patriotic Club and the Cultivators they Made.



### Bred-to-Lay Flocks

By R. G. KIRBY

Well Bred Flocks Produce More Uniform Products. It is Possible for Farmers to Increase the Value of their Products Twenty-five Per Cent Without Adding to the Cost of Production Through a Better System of

been tried with varying success but prime importance in developing a flock termining which hens are the best ter eggs. layers except the trap-nest. Breeders who have been making trap-nest recsess a marked ability to lay eggs and dition is not prepared to produce eggs. transmit the power to their progeny.

that count. Stock from a strain with fixed to stay.

In selecting bred-to-lay stock the help to keep the birds busy. time that the eggs are produced has The breeders who develop these high- is to keep the hens busy.

N developing flocks of farm poultry quality winter layers seem to depend the bred-to-lay factor is deserving very largely upon the trap-nest to proof much emphasis. Several sys-duce high records. Of course, they tems for selecting laying hens have also emphasize vigor which is of there is no method of accurately de- of birds with the vitality to lay win-

Keep the Hens Busy.

Busy hens lay because exercise is ords for a long period of years have fundamental to health and the bird been able to produce hens which pos- that is not in a healthy, vigorous con-Keeping the hens busy in the winter Some breeders claim that the high also keeps the poultryman on the normal layers are the best breeders jump. Plenty of clean litter must be and this seems sensible. The two-supplied for scratching. Dust baths hundred-egg hen may frequently be a must be prepared and filled with clean better breeder than the phenomenal garden loam so that the hens will layer which produces nearly three have a chance to fight pests and sun hundred eggs. It is the flock averages themselves while dusting in the earth. It pays to have something for the eight or ten generations of two-hun- hens to peck at during winter months. dred-egg hens is more reliable than Clover can be wrapped in a small cylstock from two generations of hens inder of poultry wire and suspended which will lay two hundred and fifty from the wall of the house. The birds eggs per year. The two-hundred-egg will enjoy pecking at the leaves and stock bred over the longer period is blossoms and will obtain much healthmore apt to have the characteristic ful food by that means. Mangels placed on nails will supply green food and

Watch the flocks occasionally at some influence on their market value. night and note the hens that are al-Five birds of a prominent strain made ways willing to stop work and go to a record of one hundred and thirty- bed early. They are often the hens four eggs during January in a Mis- that are poor producers and also the souri laying contest. At a January ones that are the slowest to come price of fifty cents per dozen these from the roost in the morning and eggs would have been worth \$5.58, or start scratching. The busy hen seems about \$1.12 per hen for the month. In to have a good disposition; she is apt May another pen produced one hun- to be the bird that sings while she dred and thirty-three eggs, but at that hunts for feed in the litter. The lazy time eggs were selling for about twen- hen which spends much of her time ty-five cents per dozen. Their eggs humped up in the corner is usually a would only bring \$2.77, or about fifty- poor layer. She may show some signs six cents per hen for the month. Un- of life at feeding time but she is more doubtedly this ability to lay winter apt to watch for the grain the other eggs can be developed in some strains hens scratch out rather than do her of fowls to such an extent that they own hunting. The busy hen is apt to can be made much more profitable lay and pay, and during the winter than the ordinary type of farm hen, one of the poultryman's biggest jobs

### Fall Ailments of Poultry

By E. C. FOREMAN

Poultry Specialist, M. A. C.

I am finding as many as five of my should be provided, free from drafts. chickens dumping around at night and some of them just tip over and die. They seem wet under the wings without a mark on them.

Eaton Co.

M. O. A.

3. Wash heads of the affected birds

The treatment is one of prevention water supply. rather than cure, although it is not a particularly difficult problem to elim- 4. Feed plenty of good wholesome not commenced to roost. Cool nights as an appetizer.

Treatment.

are the first to succumb.

3. Wash heads of the affected birds From the description of your trouble with a two per cent solution of potasnamely, "wet" under the wings and sium permanganate and also put general weakness, especially among enough in the drinking water to give the pullets, I do not hesitate to say it a deep claret wine color. (Potasthat your stock is suffering with fall sium permanganate can be secured colds, or simple catarrh. At this seafrom any druggist. An ounce or two son of the year especially, the young will probably be sufficient), For drinkchickens are subject to colds and eving purposes use about what can be precaution should be taken to placed on a five-cent piece to a gallon guard against an outbreak of such. of water. Remove all other sources of

inate and eradicate the trouble, espe. grains and a mash (wet) of bran midcially if the stock is hardy and vigor- dlings, corn meal and meat scraps, usous. Weak chickens, and especially ing about a teaspoonful of mustard pullets, are more susceptible, when to each twelve chicks. The mustard the stock is immature and have has a stimulating effect, and also acts

induce huddling and the weaker ones By following the above directions, paying special attention to housing, thus removing the cause, a speedy re-1. Clear, dry, comfortable quarters covery can be looked forward to,



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The steel body and cast-iron fire-bowl are separate parts joined by a special deep-set socket that makes the stove absolutely air tight. No fire touches the steel body, as is the case in common wood heaters. Nuts and bolts which ordinarily are exposed to the flames, are reinforced against burning out.

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of blacking will make stove look like new.

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Turkeys, Geese, Ducks—White Holland Turkeys, large thrifty highly bred pure white birds: Bourbon RedTurkeys: Gray Tolouse Geese; White Pekin Ducks. Please write for description and prices. Bloomingdale Farms, Bloomingdale, Mich.

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Ferris White Leghorns 

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Fowlers Buff Rocks
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Will Be Held at

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> 51 -- High-Class Shorthorns -- 51 41 -- Cows and Heifers -- 41 10 -- Extra fine Bulls -- 10

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OF

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At Jackson, Mich.

### Wednesday, Sept. 25, 1918

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My son is in France and my health will not permit me to continue.

One of the oldest and best herds in Michigan.

No old cows, all healthy and tuberculin tested.

Many A. R. O. records.

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A 24 lb. cow that made 96 lbs. milk her best day and 17,000 lbs. in year. Two of her daughters, A daughter of a 26 lb. cow.

A 29 lb. daughter of Pontiac Aaggie Korndyke.

Three granddaughters of Pontiac Aaggie Korndyke,
All the animals in this sale are from the best blood of the breed, Pontiac Korndyke, King of the Pontiacs, Hengerveld De Kol and King Segis. They are guaranteed against contagious abortion and tuberculosis for 60 days.

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Winn--Wood Herd

Registered Holsteins Sire in Service Flint Maplecrest Boy

Who is bred for real production his sire Maplecrost Korndyke Hengerveld is one of the best bred long distance bulls in the world. He or his dam are brother or sister to six own with records above 1,200 lbs. or butter in one year and ten more above 1,200 lbs. or year. Flint Maplecrest Boys' Dam is Gluck Vassar Bell 30.67 lbs. of butter in 7 day. 121 lbs. in 30 days. Butter fat test 5.27, 19there a reason why Flint Maplecrest Boys is not one of Michigans greatest young sires. None of his females are for sale until after we test them. But we have 100 this bull calves from 2 to 9 months old, with A. R. O. dams which we now offer for sale until a the sale until such as the kind of a bull you want.

JOHN H. WINN, Inc. Roscommon, Mich.

### The Pontiac Herd

"Where the Champions come from"

Offer Bull Calves sired by sons of Pontiac Korndyke, Hengerveld DeKol, Pontiac Dutchland, or Admiral Walker Pietertje. Do you want a Pontiac in your herd?

Pontiac State Hospital, Pontiac, Mich.

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

McPherson Farms Co., Howell, Mich.

\$50 Liberty Bond gets 1 mo. old gdson of Mapleores Korn, Heng dams are granddaughters of Pontias Maid 30,21 lb. Heifers same age breeding \$150 terms Herd free tuber. M. L. McLaulin, Redford, Mich

### The Traverse Herd

This is the chance you have been looking for. We will sell a few, good A. R. O. cows. One with 27 18 in 7 and 10.35 in 30 days. Three others above 24 ibs. Come and see them or write for descriptions and prices but hurry for they will go quickly. Also a few bull calves for sale, the kind you will be proud to own. Pedigrees and prices on application. State age desired. TRAVERSE CITY STATE HOSPITAL Traverse City, Michigan.

Want Yearly Records?

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

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

Holsteins: Bull calf born Oct. 6. A nice individual dwell grown in good condition. His seven nearest dams average butter 7 days 23.36 lbs. milk 653 lbs. Dams record 18 lbs at 2 ½ yrs. W.B. Reader, Howell, Mich.

### DO YOU WANT

A Holstein Bull calf ready for service with exceptional breeding? Write HILLCREST FARM, Kalamazoo, Mich.

FOR SALE 3 Pure Bred Cows. Will freshen within a few days, price to sell. A. C. FROST, Lennon, Mich.

For longest milking and largest yield

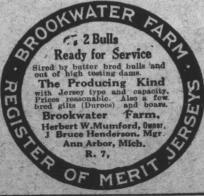
### Pure HOLSTEINS



hold all records for a week a month and a year.

The Holstein-Friesian Association of America, Box 164, Brattleboro, Vt.

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



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

### WANT

Ten Jersey Heifers

Due to freshen this fall. Either grade or registe Fred L. Bodimer, Reese, M

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

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

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

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

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

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

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

For Sale Registered Jersey Bull, three years old.
"Hugos Streamland Boy" Sire. Hugos
Best, Dam, Judy Girl. Test eight. Cheap for quick algeb
Streamland, Phone, Ganges 7-IR, R.1, Fennville, Mich.

3 Extra nice yearling heifers, 3 extra nice heifer calves old enough to wean, 4 extra nice bulls from 8 to 12 mos old not related to heifers. Frince Donald, Farmer and Perfection Fairfax breeding. If interested

ALLEN BROS., Paw Paw, Mich.

Herefords Polled and Horned blood lines embrace Fairfax. Polled Perfection and Prime Lad 9th breeding. Prices reas nable. OOLE & GARDNER. Hudson, Mich.

### SHORTHORNS For Beef and Milk.

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

BIDWELL STOCK FARM, Box B, Tecumseh, Mich.

#### Richland Farm Shorthorns

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

C. H. PRESCOTT & SON.

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

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

The Kent Co. Shorthorn Breeders Association are offering some choice animals at reasonable prices, Write your wants.
L. H. LEONARD, Sec., Caledonia, Mich.

FOR SALE my herd of Dairy Shorthern Cows for sale cheap.
J. B. HUMMEL, Mason, Mich.

### SHORTHORNS Cows, helfers & young buils for sale at farmers prices; herd catalog malled free. Horrieton Farms, Hart, Mich.

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

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

Shorthorn

Bulls ready for service of the choleest breeding. Write me you wants.

A. A. PATTULIO.

B. 4. Deckerville, Mich.

#### HOGS

Registered Berkshire gilts and sows for fall farrow. CHASE STOCK FARM, R. I. Marlette, Mich.

Berkshires - Registered Pigs of both sex, fine quality.

Big Growthy Berkshire Pigs. Both sexes, large prolific strain. W. H. Every, Manchester, Mich.

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

DUROC BOARS

Big long, tall, growthy boars. The kind that will add size and growth to your head. Biggest March farrowed pigs in country, Weigh 200 lbs. not fat. NEWTON BARNHART, St. Johns, Mich.

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

DUROCS April and May pigs of both bred boar. For prices etc., write WELLS PARISH & SONS, Allendale, Mich.

DUROC JERSEYS

B. D. HEYDENBERK, Wayland, Mich.

Choice Burec Jersey Gilts For Sale.

Duroc Jerseys for sale, spring & fail pigs of both sex also Shorthorn bulls milking strain.

CHAS, BRAY, - - Okemos, Mich.

Duroc Jerseys Big heavy boned spring boars, Pairs. Place order early. R. 1. Monroe, Mich.

Chester Whites, spring pigs either sex, trios not akin from strictly big type mature stock at reasonable patces. F. W. Alexander, Vassar, Mich.

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

Crandell's Prize Hogs,

Cass City, Mich.

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

Nashville, Mich.

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

O. I. C.'s a few choice Apr. and May pigs clover Leaf STOCK FARM. Monroe, Mich.

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

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

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

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



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from a greatherd in every community where I am not already repeated by these fine early developers—roady for market at such soid. Write fc. my plan— More Money from logs. months old, Write fc. my plan- More Money from Hogs. 6. S. BENJAMIN, R. F. D. 10. Portland, Michigan

Big Type Poland Chinas. Spring pigs for sale Healthy and growthy. From large litters. Prices right. L. W. Barnes and Son. Byron, Mich

LARGE Type P. C. Just 5 choice summer glits bred for July and August farrow. Come and see them. W. J. HAGELSHAW. Augusta, Mich.

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

POLAND CHINA PIGS for sale. The Big litter kind. Brother Farmer quit raising runts. CHAS. STORMS & SON. Centerville, Mich.

Large Type P. C. Bredgilts and boars all sold nothing to offer at present. W. E. LIVINGSTON, Parma, Mich.

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

### FOR 25 YEARS

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

JNO. C. BUTLER. Portland, Mich.

OLD FASHIONED Spotted China Hogs Spring Gilts and Fall Gilts bred or unbred, reasonable.
J. M. WILLIAMS.

Big type P. C. Boarone yearling. Large and fine every way 2 fall yearling 10 Apr. boars. Write for prices. Satisfaction guaranteed. R.W.Mills, Saline, Mich. Big type P. C. Boars all ages the kind that make good, meet me at the fairs.
E. R. LEONARD, St. Louis, Mich.

HORSES

### Horses Will Be Horses Soon

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

### PALMER BROS,

R. R. Orleans, Belding, Mich.

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

Percheron Stallions and mares of reasonable prices; inspection invited.

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

For Sale Registered Percherons, Shorthorn cat-tle and Jersey Hogs.

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

For Sale 2 m re colts Black coming 2 and 3 C. S. HUGHES, R. 1, Mayville. Mich.

Percherons for sale. Stallion three years old. Mare E. J. ALDRICH. Tekonsha, Mich.

Additional Stock Ads. on Page 267



#### SECOND EDITION.

The markets in this edition were revised and corrected on Thursday afternoon, September 19.

#### WHEAT.

Wheat was quiet on the Detroit market, and easy. There is no improvement in milling demand, and shipping is attended with much difficulty. The price a year ago was \$2.19 for No. 2 red. Local prices are unchanged from last week

No. 2 red	 \$2.19
No. 2 mixed	 2.17

#### CORN.

The demand for corn seems to be lacking in the Detroit market, and the result is a drop of 5c, and an easy finish. There was cold weather and some frost in the northwest, but aside from this the market offered little encouragement to buyers. While news of ample receipts, plenty of consignments were noticed, indicating a continuation of the supply and an extension of embargoes that have been hindering the movement gave the bears sufficient reasons for action. The war news also had a weakening effect, as it seemed to indicate an early end of fighting. No. 3 corn sold one year ago at \$2.13 per bushel. Present quotations are:

No. 3 yellow 1.65	
No. 4 yellow 1.60	
No. 5 yellow 1.50	
No. 6 yellow 1.45	
No. 3 white 1.85	

### OATS.

Active government buying and also foreign demand has prevented a decline in oats. The demand is fair from millers and shippers and the market shows a gain of one to ten cents over last week. Standard oats market shows a gain of one to ten cents over last week. Standard oats pigs bringing \$20.25; others \$20.75. sold on the Detroit market one year ago at 62½c per bushel. The present prices are as follows:

Standard

Stan	da	ard	8								73	1/2
No.	3	white									73	
No.	4	white					٠	*	٠		72	

#### RYE.

Rye seems to be in no demand and the market shows a falling off of 2c from last week. The quotations on the Detroit market for No. 2 rye is \$1.63 per bushel.

#### BARLEY.

Barley is moving very slowly and prices are unchanged from last week, the present sales by sample are made at \$1.98@2.10 per cwt.

#### BEANS.

There is not much change in the bean market. Trading in beans remains inactive and easy, with not much change in price from last week, with the quotation at Detroit at \$9 per cwt. for immediate and prompt shipment..

#### FEEDS.

Feed prices are unchanged from last week. The prices quoted in 100-lb. sacks to jobbers are: Bran \$34.66; middlings \$36.66; coarse corn meal \$67; cracked corn \$68; chop \$48@55.

SEEDS.

The seed market is quiet and firm, with prices showing an upward trend. The Detroit market quotations as as follows: Prime red clover, spot and October \$22; alsike \$17.50; timothy at \$5.50.

\*20.50@20.75.

Sheep and Lambs.

Receipts three cars; market steady; top lambs \$18.50; yearlings \$14@15; wethers \$13@14; ewes \$11.50@12.50.

Receipts 1200; market steady; tops \$19; others \$7.

CHICACO

CHICACO

firsts are quoted at 54½@55c; extra creamery 55½. In Chicago the feeling continues firm and prices irregularly higher than last week, with the creameries ranging from 48½@57c. In New York creamery butter is quoted at 53@58c.

#### CHEESE.

The cheese market remains firm and the offerings are light. Prices at De-troit are: Michigan flats 28½c; New York 29c; brick 34c; longhorns 31c; Wisconsin daisies 29½c; limburger

Veal Calves. 

Sheep and Lambs. Receipts 3,064. Market strong

6.00@ 6.50 9.00@10.00 8.50@ 9.00 7.50@ 8.00 9.00@10.00

8.00@ 8.50 \$65@ 135

Cutters
Canners
Best heavy bulls
Bologna bulls
Stock bulls
Feeders
Stockers
Milkers and springers

### 26@26½c. At New York state fresh specials bring 28¼c. POULTRY.

The poultry market is easy and dull. Offerings are fair but there is a light demand. Live broilers bring 31@32c per lb. for large, and 29@30c for the small; hens 32@33c; Leghorns and small hens 30@31c; geese 20c; ducks 28@30c; turkeys 24¾ @25c.

HAY.

The demand for hay is active and the supply quite limited. Farmers are not attending to the marketing of hay. In Detroit the prices range as follows:

No. 1 timothy...\$29.50@30.00

Standard timothy 28.50@29.00

No. 1 mixed ... 24.50@25.00

No. 1 clover ... 23.50@24.00

#### EGGS.

Eggs continue scarce and the price high and firm. At Detroit Michigan candled firsts in new cases are selling candled firsts in new cases are selling to jobbers at 45½c while current receipts bring 43½c. In Chicago firsts are quoted at 43@43½c and ordinary firsts 40@42½c. The New York market is quoted steady, with fresh gathered extras at 51@52c; fresh gathered regular packed extra firsts 48@50c.

#### DETROIT CITY MARKET

Business continues brisk at the Detroit Eastern Market. Potatoes selling for \$2 per bushel; tomatoes \$2; carrets 75c; cabbage 50@60c; summer squash 50c; hubbard squash \$1; cucumbers from \$1.75@2 for small and 50c for large; eggplant 75c; onions \$1.75; pie pumpkins \$1; apples range from \$1@1.50, according to quality; muskmelons are selling at \$2.50@2.75 per bushel. Eggs are bringing 60c. The hay market remains the same as last week, with prices ranging from \$27@30.

### LIVE STOCK NEWS.

market, and from now on shipments from that part of thhe country will be liberal, with quality said to be better than usual. In northern Montana the than usual. In northern Montana the ranchers are not faring so well as they passed through several dry spells which shortened the hay crop and dried the grass on the range. They will either be compelled to ship hay in for winter or ship out the cattle, many of which are thin and light in weight.

many of which are thin and light in weight.

Including the first week of September the combined receipts of cattle, hogs and sheep at the seven principal markets totaled 31,060,000, an increase of 3,650,000 compared with the same period last year and 2,300,000 compared with the corresponding time two years ago. Cattle, alone, increased over 1,300,000 while hogs gained over 2,000,000 and sheep showed an increase of 400,000. These remarkable increases show what the farmers of the country have been doing to fill the wants of the government for meat and fortunately they are getting reasonable profits for their efforts as prices have ruled comparatively high.

Canada is very short of live stock, according to reports. Arnold Wescott, head hog buyer for the Western Packing Co., at Chicago, who recently returned from a motor trip of 2,000 miles, said: "I passed through a fine section of the rural part of Canada and what impressed me most was the scarcity of live stock. Hogs were everal days without seeing any. One could tell the difference upon entering Michigan. There hogs were plentiful and cattle also seemed to be numer-

Michigan. There hogs were plentiful and cattle also seemed to be numerous."

Commission charges for selling live stock have been increased at twenty different markets of the country. The increase at Chicago amounts to \$2 a car but excess charges have been eliminated. The Bureau of Markets United States Department of Agriculture, conducted an open meeting last week at Chicago and later will hold others in Denver and Kansas City where farmers and country live stock organizations can give their views. The commission men gave very good reasons for the increase, chief among them being increased expenses to keep service to their customers up to a high standard.

### Live Stock Market Service

#### Reports for Thursday, September 19th CHICAGO. DETROIT

Cattle.

Receipts 16,000. Market steady. Good to prime choice steers \$16.25 @19.50; common and medium butch-@19.50; common and medium butchers \$10@16.25; heifers \$7.65@13.75; cows \$7.60@13.25; bologna bulls \$7.75@13; canners and cutters \$6.65@7.65; stockers and feeders, good \$11@14; stockers and feeders, medium \$8@11. Hogs.

Receipts 20,000. Market slow, and mostly 20@25c lower.

Tops \$20.55; heavy \$20@20.40; mixed and light \$20.25@20.50; packers' hogs \$19.35@19.65; medium and heavy \$19.50@19.85; light bacon hogs \$20.25@20.65; pigs, good to choice \$18.50@19.25; roughs \$18.50@19.25.

Sheep and Lambs.

Receipts 23,000. Lambs strong to higher. Sheep firm.

Receipts 23,000. Lambs strong to higher. Sheep firm.
Choice to prime lambs \$17.65@18.50; medium and good lambs \$16@17.65; culls \$10@13.50; medium, good and choice feeders \$16@17; choice yearlings \$13.75@14.25; medium and good yearlings \$13.25@13.75; wethers, medium and good \$12.25@13.25.

#### BUFFALO.

Hogs. 

### Reports for Wednesday, September 18th BUFFALO.

Cattle.

Cattle.

Receipts 20 cars; market 25@50c lower; prime heavy steers \$17@17.50; best shipping steers \$15.50@16; medium shipping steers \$14.014.75; plain and coarse \$13.014; best yearling steers 900 tol 000 lbs \$15.016; light yearlings, good quality \$13.014; best handy steers \$12.50@13.50; fair to good kinds \$11.012; handy steers and heifers, mixed \$10.50@11.50; westeern heifers \$11.012; best fat cows \$10.01; butchering cows \$8.09.50; cutters \$7.07.50; canners \$5.50.06.25; fancy bulls \$10.50.011.25; butchering bulls \$8.50.09.25; common bulls \$7.08; best feeding steers 900 to 1000 lbs \$10.01; medium feeders \$8.50.09.50; stockers \$7.50.08.50; light common \$7.08; milkers and springers \$65.0150.

Hogs.

Receipts 15 cars. Market is lower; heavy and yorkers \$21.021.10; pigs and lights \$20.50.020.75.

Sheep and Lambs.

Receipts three cars; market steady:

The Seed line with prices showing an upward treath with prices showing an upward treath with prices showing an upward treath the Detroit market guotations as as follows: Prime red clover, spot and October \$22; alsike \$17.50; timothy at \$5.50.

POTATOES.

Firmness continues to prevall in the potato market. Supplies in general are moderate and the demand is good At Detroit Early Ohios are bringing \$4.75 per 150-lb. sack. At Pittsburgh jobbers are paying \$3.15 @3.30 per cwt. for Cobblers, sacked. At Indianapolis Early Ohios are now bringing \$2.85 in one at the better grades. The plain kilds, selling at \$11 @15 were about steady. Butcher stock sold about steady Butcher stock sold about steady and several few wethers sold wor as buyers claim they are selling to near the better grades. The plain kilds, selling at \$11 @15 were about steady. Butcher stock sold about steady and the demand is good and market is paying \$2.75 for the same variety ungraded. The early potato crop was light. Late potatoes have suffered severely from lack of moisture in the southern and central counties, but are generally good in most of the northern counties.

BUTTER.

At Detroit the butter market is and a prime class is quotable at \$18.00.

At Detroit the butter market is and higher, some averaging 1.480 lbs., The creamery making a record of \$18.10 on Tuesday mode a record at \$17.50 for yearling wethers. Around 9,000 rangers were on sale landed at \$18.90. which is evidence that the proportion of choice on sale landed at \$18.90. which is evidence that the proportion of choice on sale landed at \$18.90. which is evidence that the proportion of choice on sale landed at \$18.90. which is evidence that the proportion of choice on sale landed at \$18.90. which is evidence that the proportion of choice on sale landed at \$18.90. which is evidence that the proportion of choice on sale landed at \$18.90. which is evidence that the proportion of choice on sale landed at \$18.90. which is evidence that the proportion of choice on sale landed at \$18.90. which

Calves continue to sell well unless they are grassy, and prime vealers topped at \$19.50. Receipts are estimated at 16,000 making 63,800 the first three days of the week and included 25,000 rangers. Combined native and western run stood 5,000 larger than same time the previous week and showed a similar increase over corresponding time a year ago.

Hogs.

time a year ago.

Hogs.

Wednesday's hog receipts fell down to 11,000 and proved much lighter than expected, enabling sellers to check the decline started on Tuesday. Best offerings made \$20.85, standing 10c under the prevailing record. A good to prime class of butchers sold at \$20.50 prime class of butchers sold at \$20.50 @20.75, while most of the choice light sold at \$20.65@20.75. Many of the packing grades sold at \$19.50@20 and mixed grades often cleared at \$19.75 @20.25 where they did not carry too much weight. A rough class of heavy packers sold at \$19.15@19.25. Shipping demand has been light thus far this week but local packers have need for choice offerings. Quality, if anything, showed slight improvement since a week ago. Pigs were steady and offerings scored \$19.50. Pigs and hogs have changed little since the previous Wednesday. Three days' supply totaled 60,100 against 42,428 same time the previous week and 40,673 the corresponding time a year ago.

Sheep.

### OUR CROPS FOR 1918.

(Continued from page 254). 4,895,000 bushels. According to the with an average yield of 30.51 bushels per acre. While the market value will withdrawal of demand from breweries due to the prohibition on the manufacture of beer after December 1, the local needs for grains to feed will make this big crop a godsend to our stock-

Buckwheat Above Normal.

Some very satisfactory reports on this crop are being received. The estimated yield is placed at 1,039,000 bushels. Last year's yield was 670,000 bushels and the average for the past ten years is 936,000 bushels. Here, too, our northern counties make a better showing than localities farther to the weather rendered many fields practically worthless so far as seed production is concerned.

Pastures and New Seeding Very Poor. The live stock industry of southern less than the cost of bran. Michigan as well as of the majority dized by the failure of the pasture lots. This, however, can only be said of the southern half of the lower peninsula. In the southern counties below the Straits and throughout the upper peninsula rains have been sufficiently frequent to maintain a fairly good growth of grass in all sections, with some counties having an abundance of feed from this source. New seedings are in about the same condition as are the pasture lots.

#### COST OF SILO FILLING.

Can you tell me anything about the cost of silo filling? What should be the price asked for the cutter and engine? I have a silo ready to erect but the price for the work looks high to me. Three dollars per hour for a 13 inch cutter, and I have to furnish the team, wagon and man to haul water. With such a small cutter it will take them a long time to fill it. The silo is 12x26 with a four-foot base. With all other help I will have to hire, (as very few seem to care to change work), it is going to bring the cost of ensilage high.

Jackson Co.

A. C.

During normal times it cost us from

During normal times it cost us from seventy to ninety cents per ton to haul the silage corn to the machine and put it in the silo. That was on a basis of \$1.50 per hour for engine and cutter and \$2.00 per day for men and a change of teams and wagens for hauling. At the prices you mention for engine and cutter and from \$3.00 to \$4.00 per day for men at filling time, and the increased cost of feeding the help at the farm, the cost would probably range from \$1.40 to \$1.80 per ton. It is simply a question of economics whether you can afford to build a silo and fill it for feeding at these prices. At present prices for hay and grain feeds I do not think you can afford to feed cattle or sheep with-W. M. K. out silage.

#### HAY ON MUCK LAND.

I have muck land on which I desire to grow hay. This land is not well drained. What seed should I sow? Ogemaw Co. J. K. A. Ogemaw Co.

The growing of hay on muck land which is not well drained presents the e difficulties as the growing of hay on any good soil which is wet. Muck farmers in Michigan have generally found that alsike and timothy will be successful. It should be sown in the spring on muck which had been plowed the previous fall and well prepared. A light dressing of manure is advisable, especially if it is new muck and not well decomposed. Where muck is well decayed and has been worked, the application of manure is not essential, but will pay well in the production of an increased crop.

EZRA LEVIN, Extension Specialist in Muck Crops.

THE OUTPUT OF MILL FEEDS.

COMPARATIVELY little wheat is being ground in America at the figures published by the Secretary of present time for export, because for-State, there have already been thresh- eign countries will use their own ed over 3,000,000 bushels of this grain, grains until the supplies are exhausted. Those countries are, therefore, more anxious for our wheat than they undoubtedly be affected through the are for flour, which restricts our output of mill feeds. But even with normal production of such feeds, the demand was expected to exceed the supply since the schedule of fair prices established for this feed has made it much cheaper than other feeds of equal nutritive value.

There is an unusually large production of certain coarse grain products. Food Administration regulations provide for an extraction from barley of only fifty-five per cent flour, leaving nearly forty-five per cent of the barley berry for feed which is remarkably rich and nourishing. Barley feed south. In the latter districts the dry in itself is not a substitute for bran, but needs to be mixed with other light material, such as oat feed, to give bulk. There is an ample supply of oat by-products at prices averaging

The amounts of substitute cereals of her sister states, has been jeopar- to be purchased with wheat flour has been modified and should increase the output of American flour mills and result in more mill feeds.

Brewers' and distillers' grains have almost disappeared from the market, but corn by-products, though uncontrolled in price, are plentiful. The period for which these conditions are likely to prevail is undetermined, but the situation will be materially changed when foreign orders for flour from this country are again being filled.

#### FROM OUR CROP REPORTERS.

St. Clair Co., Sept. 14.—Oats yielding about forty bushels per acre, but beans are not yielding as well as last year, potatoes about 50 per cent of last year's crop, and apples very good. There is a great deal of corn suitable for the sile but no ears to mature.

There is a great deal of corn suitable for the silo, but no ears to mature. Pastures have been very poor this summer. There was some spring wheat grown in this section this year.

Allegan Co., Sept. 16.—The yield of crops as compared with normal years is as follows: Beans 45 per cent; potatoes 60 per cent; corn 50 per cent; apples 75 per cent; peaches a very light crop; other fruits about 75 per cent. Pastures are improving since light crop; other fruits about 75 per cent. Pastures are improving since the recent rains. Wheat yielded about 10 bushels; oats 40 bushels; barley 20 bushels per acre. Prices paid here are: No. 2 wheat \$2.08; oats 70c; barley \$1; rye \$1.40; hay \$28; veal calves \$15; cattle \$7@15; hogs \$19.50; milk \$3 per cwt; eggs 46c; dairy butter 43c.



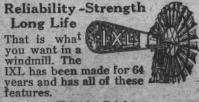
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Additional Sheepl Ads. on Page 2 6

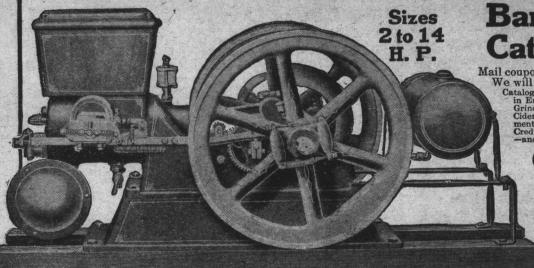
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