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

Whole Number 4003

DETROIT, MICH., SATURDAY, JULY 27, 1918

\$1.00 A YEAR \$3.00 FOR 5 YEARS

# WHEAT---"The Staff of Liberty"

By JOSEPH F. COX, Crop Specialist at the M. A. C.

C INCE early times the wheat sup- would decrease. Of late I have put the trying conditions is sufficient evidence tions or handled with greater skill, ted as a war grain.

ers who established the wonderful system of Roman roads for the purpose of rapid movement of troops and to insure a constant supply of this stamina producing grain. The vasal states of Gaul and Spain were made to produce wheat for Roman soldiers and Roman citizens. Caesar conquered the world, not entirely because his men were the best fighters, but because they were well fed and well equipped. Napoleon, with the example of Caesar before him very nearly equaled his achievement. It was he who stated that "an army travels on its belly." Without a doubt, the disastrous retreat of Napoleon's veteran army after the burning of Moscow was due to the interruption of the snows," far more than to defeat by the sally the case.

greater distance from the base of supply than has ever been undertaken by any great army previous-All the food shipped must be transported under great difficulties. It must occupy the least space and carry the highest energy value. Wheat, of all the grains, is the most ideal for the present need. It is with American wheat most largely that our armies and our Allies must be kept fed in order to fight this war to the finish. In addition, America must supply our home needs and at least sixty-five per cent of the food material for our Allies. Well may wheat be called the "staff of liberty" since this great struggle for the cause of liberty can be supported at full efficiency only if the supply of wheat from our fields to European battlefields is unbroken and adequate.

You may have heard the statement from many sources that owing to the past adverse season the wheat acreage of Michigan

#### To Help the Kaiser

Don't plant wheat or rye. Plant too late. Use poor seed, don't treat for stinking smut. Let the seed bed prepare itself. Don't disturb the weeds. Don't fertilize. Keep the manure in the barnyard. Eat all the wheat you grow. Loaf on the job.

#### To Beat the Kaiser

Plant a record wheat and rye crop. Prepare land early. Plant early enough for a good start. Plant treated seed of a hardy variety. Fertilize with manure and phosphate. Eat substitutes. Be on the job every minute.

As a contribution to this year's war tory from defeat. Today America is called upon, not to basket, Michigan's wheat crop falls far Lessons from the 1918 Wheat Crop.

ples. Her army must make war at a creased acreage planted last fall under planted under more favorable condi- thought they were warranted in plant-

ply has played an important part question to many farmers and elevator of the determined effort on the part of show that even under the most unfavin determining the destinies of men. The answer of the majority of most Michigan wheat growers to do orable weather conditions which our nations. Of all grains it is best adap- these is one that Michigan may well their full part in the war. It was a weather bureau have ever recorded, be proud of. "Yes," they will admit, sad sight during last spring to see Michigan can grow great wheat if Julius Caesar was the first great "not much wheat in our neighborhood these same men disking up and plow- rightly handled. Considered as an obgeneral who employed wheat as a stan- this year, hardly a paying crop, but we ing up nearly half of the acreage plant- ject lesson the past wheat crop offers dard army ration. His conquering arm- look for a big acreage next year. Most ed in the fall. Though the attempt a rare opportunity for profit. The paries were followed closely by road build- of our farmers, through patriotism, was a costly one, it did not discourage tial defeat due to the extremely adverse conditions of fall, winter and spring, can be turned into a great victory next season if the lesson is fully

Too Late Planting is Disastrous.

Only in extremely favorable fall seasons will wheat, planted in late September and early October give a maximum crop. It is of the utmost importance that wheat be planted sufficiently early to secure a good top before winter. Throughout southern and central Michigan, wheat should be planted in the period between September 10 and In north central and northern Michigan from September 1 to 15 is the proper planting time. It is true that where the Hessian fly is apparent food supply by the "cavalry of the will put out as much wheat as they the planting of the greatest oat and the wheat should be planted somewild blasts, and the infantry of the can." Let us hope that this is univer- barley acreage that Michigan has ever what later than usual. The latter porseen, which we hope will snatch vic- tions of the planting periods named are late enough to control Hessian fly, according to Professor R. H. Pettit. conquer the world, but to put down short of the war contribution which But the wheat crop was not a total He further states that only occasional the most devastating force that has Michigan farmers hoped and prayed to failure by any means. Thousands of fly injury has been reported. Many ever threatened the liberty of all peo- bring to a successful harvest. The in- successful fields throughout the state hearing the advice to plant late

> ing wheat well into October. Planting time finally became later and later until now our wheat crop as a whole is annually jeopardized through too late planting. In informing your neighbor when to plant in order to control fly, name the date and do not simply state "plant late" or he may think you mean Thanksgiving or

Christmas.

The good fields of wheat standing in Michigan are almost invariably hardy varieties and were planted sufficiently early on seed beds properly prepared. Red Rock has again demonstrated its hardiness and high-yielding ability and is available for nearly every neighborhood. Excellent fields of Egyptian Shepherd's Perfection, Niggerhead and Gold Corn, and other varieties have also been noted. The varieties which withstood the past seasons successfully can be considered dependable ones to grow. It is these varieties, veterans of a (Continued on page 71).



The Summer's Work in the Corn Field is a Battle with Weeds and Drouth. (See Page 71).

# The Michigan Farmer

Editors and Proprietors

45 Congress St. West, Detroit, Michigan TELEPHONE MAIN 4525. NEW YORK OFFICE—381 Fourth Ave. CHICAGO OFFICE—111 W. Washington Street. CLEVELAND OFFICE—1011-1015 Oregon Ave., N.E. PHILADELPHIA OFFICE—261-263 South Third St.

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TERMS OF SUBSCRIPTION: All sent postpaid.

Canadian subcription 53c a year extra for postage. RATES OF ADVERTISING

line agate type measurement, or \$6.30 per tte lines per inch) per insertion. No adv't less than \$1.35 each insertion. No objec-ertisments inserted at any price.

Standard Farm Papers Association and Audit Bureau of Circulation.

Entered as Second Class Matter at the Post Office at Detroit, Michigan, Under the Act of March 3, 1879

NUMBER FOUR

DETROIT, JULY 27, 1918



CURRENT COMMENT.

the War.

VOLUME CLI.

Recent reports from the Our Boys in western front in Europe have been gratifying to every loyal American,

not alone because success is attending the military campaign of the Allies in which America has become a considerable factor, but as well because our boys have fully met our expectations of them. These reports are further gratifying because they indicate that through the addition of American troops in such numbers to the forces lied man power has assumed a superiority which enables offensive operations to be conducted on a large scale.

The best of military critics seem to concede that the Allied successes of the past week mean that the must, of course, be prepared for the sad feature of increased casualty lists as a result of the operations in which numanity by supporting the boys at ed. By such whole-hearted support the the distribution problem. day of victory and a just peace will be hastened.

of the Revolution have loyal Ameri- ever kept in mind under present con- hundreds of ways in which any farmcans ever been so united on any ques- ditions. tion of public policy as they now are The Lawrence Publishing Co. upon the vigorous prosecution of the war in which we are engaged as a means of bringing about an early, just and lasting peace to the peace-loving peoples of the world.

> an early decision. The vast resources consin, Minnesota and South Dakota the county agent much more quickly which this country has already been of the war.

come, however, when this will be no longer possible, and the effect upon the morale of the people of the central powers will hasten the day of victory.

Quite properly, other public issues have given precedence to the war in the public mind. It has been definitely demonstrated that the forces of a great democracy can be as effectually marshalled for the well-being of humanity as can the forces of autocracy for its undoing. The American attitude not only promises everything for the future of America, but also great things for the world at large.

Lest we forget the Supplies. affecting the gener-

recently issued a warning that unless stage and proven its superior value. the farmers of the country are forehanded in ordering needed supplies of The gains which have been noted in lime, they may be unable to get this Utilize the County press reports are significant, not so commodity when they want it. Ordimuch for the military value of the narily farmers have purchased their ture success from a strategic stand- time when labor would be conserved a valuable opportunity if they do not of the county farm bureau. by hauling it direct from the car to utilize the services of the county agent the field and applying it.

turning point of the year's campaign have adjusted their business to this continually which the county agent can has been reached, and that the future practice; they have come to recognize be of material assistance in solving. May 10 the 8,132 member banks had may be looked forward to with an in- two seasons of demand, namely early Perhaps a new crop disease, or one total resources of \$24,070,000,000, an creased degree of confidence. We spring and late summer. Under pres- new to the farmer observing it, makes increase of \$92,000,000 since the first ent conditions, however, including the its appearance in his field. In every of the year. transportation difficulties, shortage of such case the county agent should be labor in their plants and difficulty in notified and his assitance solicited at ness of the Federal Reserve Bank sysour boys have been so great a factor. Obtaining fuel, producers in this line once. If he has not previously met tem shows the great benefit which is This inevitable result of war, must as well as in many others, will be un- this particular crop disease or para- enjoyed by the member banks from however, be borne with all of the forti- able to make last minute deliveries, site in his experience, he has at his the operation of this system. It is extude at our command, and without in and disappointment may result for command scientists of the Agricultural ceedingly fortunate that an adequate the slightest degree altering our deter. many prospective users. In addition College and the federal government on banking system was devised and gotmination to secure an early victory for to these conditions, the need of in- whom he may call for assistance in de- ten into operation before the entry of creased crop production and the benethe front of whom we are so proud, in fits which have been derived from the and the best available remedy for com- will tax its every financial resource to every possible way and by bidding God application of lime to acid soils have bating it. speed to those who are following them increased the demand for lime pro- As an illustration along this line, the finish.

Michigan farmers re-

There is a most general and clear winter was so severe that large areas men for special needs just at the time understanding of the necessity of our of the wheat sown were winter-killed they are badly needed, to the great vigorous prosecution of the conflict to and much of the land had to be sown relief of the farmer who is unable to this end. There is no faltering in the to spring grain last spring. In the sug- get local help. Soil problems are also general support of the war program, gested wheat acreage for 1918 the De- serious in many cases, and the aid of and almost no complaint regarding the partment of Agriculture has not asked the county agent in their solution will sacrifices which must be made by all for an increase of wheat acreage in be most helpful. the people, to the end that our partici- Michigan, but has suggested an inpation in the conflict may bring about creased area of rye for Michigan, Wis- also be developed through the aid of

able to marshal in its defense of right onstrated that much of our Michigen way. Without doubt, the farm bureau and justice have been almost as great soil is not adapted to growing wheat. organizations of the state and country a surprise to the people of our own On the other hand, it has been found form the best possible nucleus for the country as they have to the govern- from repeated experiences that most general organization of our farmers ments of the central powers, who felt of this poor wheat soil will give an along economic marketing lines, but so secure in their belief that America abundant yield of rye under good cul- the best possible results in this direccould not effectively prepare in time tural methods. Michigan is particu- tion cannot be secured without the to be a material factor in the conduct larly fortunate in having developed people of the several counties are in through its experiment station a very close touch with their county agents. Present indications are that the superior strain of rye. Rosen rye is Already a plan has been advanced by great results which were accomplished again demonstrating its superiority as the government field agent in marketduring the first year of the war will be a grain crop this year in comparison ing in this state which looks toward a overshadowed by our accomplishments with the common varieties. This va. comprehensive organization for the during the ensuing year. This accom- riety has repeatedly demonstrated its marketing of the state's potato crop. plishment has been and will be possi- superiority in an extraordinary manble only through the high morale of ner. It should not be forgotten, how. the State Market Director for the orthe American public. Already the cenever, that this strain mixes very read-ganization of a National Chamber of tral powers have felt it expedient to ily with the common rye, and that Agriculture in which the county farm keep their people in ignorance of our pure seed of the variety should be se- bureau would be the local unit. Unreal accomplishments. The time has cured if best results are to be ex- questionably the greatest need of the pected.

> It will be the part of wisdom for to sow rye instead of wheat, since even from the patriotic viewpoint, a large yield of edible grain is the result desired, and a good crop of rye will help win the war better than a poor crop of wheat. Farmers having good wheat land will do better to sow their usual acreage of wheat, but any conduction in this state must under present conditions come from an increase in acreage of rve rather than wheat.

Farmers who contemplate sowing Purchasing Farm unusual conditions any considerable area of rye this year should be on the lookout for a source al trade and trans- from which they can purchase a pure portation of the country, the United strain of Rosen rye, since this variety previously at their command, the al. States Department of Agriculture has has long since passed the experimental

Agent.

to the fullest possible degree. There The Federal Reserve In ordinary years, manufacturers are a great many problems arising

as rapidly as they can be transport- ducts, which has further aggravated new stripe disease which is attacking For all of these reasons, the Depart- now under observation by a govern- ing the war, when the commercial dement of Agriculture is urging that or- ment specialist who is visiting the in- mands upon the financial resources of ders for the season's lime require- fected fields in various sections of the the country will necessarily be increas-The high morale of the ments be placed as soon as possible, state under the direction of county ed. The combined benefits which will Public Morale whole American people and that spring needs for this com- agents. This will facilitate a close accrue to the country from the estabin their united support modity be anticipated so far as this is study of the disease, and aid material-lishment of the Federal Reserve sysof our war aims is a practicable. What is true of this com- ly in the suggestion of a remedy tem and the Federal Farm Loan sysmatter for sincere congratulation, and modity is also true to only slightly which now seems more than likely to tem are beyond estimation. They will, a cause for common remark by all lesser degree of fertilizers and other lie in the use of varieties with a high however, be better appreciated as time classes of people in all sections of the bulky materials used upon the farm, resistance to this particular disease, demonstrates their stabilizing influcountry. Perhaps not since the days The "early shopping" slogan should be This is only one tration of the ence upon the country's business.

er can avail himself of the aid of his county agent.

Just now county agents are devoting Wheat vs. Rye sponded nobly last considerable of their time to the supfor Michigan. year to the appeal for plying of needed labor on the farms an increased acreage of their counties. Often the county of winter wheat. Unfortunately the agent may be helpful in-furnishing

Community organization plans may Experience of many years has dem- and satisfactorily than in any other

Another plan has been suggested by farmers of Michigan and the country at the present time is a central organfarmers who have not at their disposal ization which is fully representative in what might be called good wheat soil character, and which can speak with authority for the farmers within its territory along economic lines. If production costs are to be made the basis of market prices in agriculture as they are in other lines of industry, a general organization of this character is a first essential. With the county farm bureau as the local unit of such an orsiderable increase of small grain procality would have adequate represen-

No other plan offers so great opportunities for effective economic work, but the first step necessary to larger usefulness of this kind for county farm organizations is for the farmers in each county in which a county farm bureau has been established to identify themselves with it and its work. This will be a good investment from Farmers living in the start, because it will cost absolutecounties where the ly nothing, and will return a hand-County Farm Bu- some profit through the benefits which reau is a recently may be derived from the utilization of ground taken as for the promise of fu- lime so as to have it delivered at a established institution are neglecting and cooperation with the local agent

System.

of the Federal Reserve Board shows that on

An itemized statement of the busitermining the nature of the trouble our country into a great war which prosecute to an early and successful

This system will be just as great an barley quite generally in this state is aid in the reconstruction period follow-

# The State of Michigan Is Still Too Wet

In the August Primaries and the Fall Elections Farmers Should Give Special Attention to the Candidates for the Legislature who Oppose the Revision of Our Drainage Laws.

MONG the trained n employed fective ways of insuring a crop on this by the Extension Department of type of land is to under-drain it. the Michigan Agricultural Colthe result that he has come to the con- of high-producing seeds, and so on. clusion that one of the improvements

water in the soil. One of the most ef- cial betterment.

wherever he has been called for-with such as application of fertilizers, use people for one year.

who is accumulating money to buy an come. "Not all farms need drainage sys- additional farm might far better invest

do to increase food production, it is in our drainage situation that many ters outside the experience of the av- land that may be already high in price, We believe that the 25,000,000 tile put from this tax investment. erage agriculturist, is a drainage spe- but it should be remembered that this in last year will increase crop produccialist-a chap who can at a glance expenditure is not for one year alone, tion one-third when taken over a ser- could be immediately installed the land almost, tell where it is most advisable The benefits should reasonably extend ies of years. Forty thousand acres of could be made to very quickly pay for to lay tile, or, on request, bring forth over a life-time. If we consider the land were drained by this tile in Mich- this outlay. In the majority of cases, assorted and definite facts about such matter on this basis, it amounts to a igan in 1917. The increased yield from however, the high drain tax exhausts things as drainage costs and ditching much smaller expense per year than this land due to better drainage will the supply of money with which the machines. For more than a year this many of the other investments which supply sufficient wheat, corn and pota- farmer might carry on this after-develman has been visiting country districts we are making to increase production, toes to feed a city of fifty thousand opment. By the time the farmer gets

more than this amount in returns but be helpful."

"To illustrate what tile drainage will it is one of the most lamentable facts "Of course, it does seem expensive only necessary to remember the num- farmers adjacent to these drains do lege to assist farmers in technical mat- to invest from \$20 to \$40 an acre in ber of tile laid in Michigan last year. not realize as much as they might

"If proper systems of under-drainage squared away the ditch is often so fill-"One of the most efficient ways of ed up with rubbish that its value as an "In visiting various sections of the increasing food production even under outlet is materially reduced, if not enmost needed in Michigan agriculture state where under-drainage has been present conditions, it will be seen, tirely destroyed. We need legislative is the installation of drainage systems. practiced for some time one cannot would be to increase the amount of remedies for this, something that will In some sections of the state, he de- but be impressed by the uniform opin- tile drainage in Michigan. This would encourage immediate development of clares, yields of crops could be increas- ion of those who have tried it that it not only produce food now, when it is the adjacent property and provide for ed one-third if farmers would provide is one of the most paying investments most needed, but it would go on pro- maintenance of county drains after outlets for the excess water on their they have ever made. Many a farmer ducing food for years and years to they are completed. The formation of drainage districts with the power to "During the last year the farmers of bond is one way of meeting the first tems," Mr. Robey says. "The question his money in systematically under- the state of Michigan paid over three trouble, and no doubt a most suitable is one of local conditions, but it is nev- draining his present property. Many million dollars in drain taxes to se- scheme can be worked out to correct ertheless a fact that thousands upon instances have come to my attention cure suitable outlets for draining their the latter. Organization of districts thousands of Michigan farmers are los- of farmers who, lacking money to land and undoubtedly this was money along natural lines, instead of along ing crops annually because of excess drain, have borrowed it to their finan- well spent. It will bring a great deal the present arbitrary boundaries would

# Developing the Young Dairy Animals

HE calf is the fundamental facent upon securing a living calf, lusty however, to depend upon these substi- Connecticut Experiment Stations it mixtures as well as promoting the blood lines. Not only the increase but ing experiment stations it has been teins in the cereals more easily digest- each feed served to keep the bowels of upon the calf. If there is not ample provision made for the reception of the youngster and the later care and development, then no wisdom in the purchase price of the dam, no study of pedigree, no familiarity with breed history, can save the herd from passing into oblivion.

Hundreds of breeders of registered cattle, who have made liberal investments in stock and equipment, have failed simply because they had not the gumption to secure the services of good caretakers or were unwilling themselves to give vigilant watchfulness and daily attention to care and feed. Some neglect to bring sunshine and fresh air to the calves; others think clean pails and feed boxes too much trouble. Some will feed more than the calf can digest; others will let the calf "rough it." The general appearance of the calf tells a story which the good caretaker can interpret with keen perception and avoid trouble. Getting a good start is important in every undertaking, and nowhere is it more important than in the life of a calf that is expected to make a return on an investment and express the merits of the breed. Right care and proper precautions would save many calves that are lost, and the loss is great because of the investment in the sire and dam and the long period in embryo life; but even calves that are born strong do not always continue to thrive for the simple reason that some painstaking caretaker does not look after them once a day to discern the slightest indication that health and growth are not as they should be. The sire with pedigree and individual merit has only the calf to express his value; the cow, true to type, and noted for her excellence, is a disappointment if she fails to produce a good, lusty

On many farms where whole milk is powdered milk is necessary to enable great value of a feed like skim-milk or tor in cattle breeding. Success sold the use of prepared calf foods has the calf to make efficient use of these soluble blood meal in supplying the deor failure with a herd is depend- been found profitable. It seldom pays, prepared foods. At the Wisconsin and ficiencies in grain feeds and prepared with the inherited merits of its ances- tute foods until the calves are from has been demonstrated that the addi- health of the calves. Some of the best tors. The care and development of four to five weeks old, and then to use tion of protein, such as the albumen of caretakers report excellent results the calf are more important than a them merely as a supplement to the milk or the proteins of meat helped from the use of about one tablespoonknowledge of pedigree in blending the skim-milk and hay ration. At the lead- out wonderfully in making the pro- ful of soluble blood meal mixed with

the improvement of the herd depends found that the use of skim-milk or ed. This undoubtedly explains the the calves in good condition, and since it is a comparatively inexpensive feed a wider use of it on breeding farms might be profitable. Young animals that are being devel-

> oped for breeding purposes should not be closely housed and pampered. A strong, rugged heifer is the basis of success in producing well developed cows and to that end the young stock should be given as much outdoor life and exercise as is consistent with a healthy growth and normal development. By close stall feeding it is possible to obtain greater growth during the first year but it is a question whether or not this method tends to make the animals more susceptible to disease and common ailments. The calf that is well fed and allowed to run outside a few weeks to grow and develop strong muscles and a vigorous constitution is capable of making better gains from the amount of grain and roughage consumed than one that has been kept inside during the summer and fall months. When cattle become so refined in type and pleasing to the eye that the rugged life of outdoors is denied them, destructive diseases increase with the so-called improvement. It is well enough to assist nature in caring for stock, but in his misguided zeal man often sets nature's ways aside. The fat, comely heifer contentedly chewing her cud in a warm, richly bedded stall, surrounded with every comfort which her owner can think of, may not have the productive ability or the reproductive usefulness of the moderately fieshed, rough coated calf that hustles about the pasture for a living. Sun, air and grass are needed in securing that superb vigor which immunizes animals from disease. It is always better to practice safe and sane methods of growing young stock than to go to

extremes. (Continued on next page).

## Teachers are Scarce

XPERT teachers are very scarce, due to a number of reasons. The men have been taken for the army; promising young women have taken a little business training and have gone into commercial jobs that pay much better. Moreover the salaries paid to teachers have not kept pace in any measure with the cost of living and in most cases the salaries have remained at exactly the same figure they were last year. It is small wonder then, that we are having such a time to secure good teachers.

The National Education Association estimated recently that this year there would be in this country a shortage of a hundred thousand teachers and those who are in a position to know believe that the association has made a conservative estimate. This means but one of two things. It means that many of the schools will either be run with inexperienced teachers or they will be closed and the children sent to some near-by dis-

Somebody must take these untried teachers and give them their experience, but it is my opinion that the district school is no place to do it, for the simple reason that there is not an opportunity to give this teacher sufficient supervision so that she

can accomplish the best results. It strikes me that in the cities or towns where the teacher can get daily and expert supervision is the place to train the untested. Many teachers prefer to teach in town and the actual money they get is a little more than they receive in the country but the amount that can be saved is somewhat greater in many country districts.

A good teacher is always worth more than she is paid, while a poor teacher is worth much less than she is paid and may often be a damage besides. We must not entrust our boys and girls to the instruction of a poor teacher who may mould in them objectionable habits that cannot be broken in a life time. Last year I went into one country school where there was an inexperienced young man teach-When I left the school, I actually felt sorry for the boys and girls.

School authorities will do well to see that they have procured a teacher of ability, even though she may demand a good price for her services. One state board of education is sending out this word to its school officials: "Living expenses have increased forty per cent in the last year and we respectfully recommend that you increase the salary of your teachers to that extent."

HE fair season will soon be with us and every farmer should plan on going to one at least. The fair most likely to attract his attention is the state fair for the simple reason that there he can see the greatest number of exhibits and usually the best quality of exhibits for the least money. Fairs may be defined as educational, recreational, and morally bad.

The educational fair is the one that has survived the test of time although we find the others even more prevalent than they should be, but as the agitation of ages has gone by the only real help that any man gets is help from the inside.

The ideal of any democracy is to so train its people that they will be able brought up by any democracy to settle, the man who does the job. and we have tried practically everyall diseases.

We have had societies founded upon



He's 'Listed! Will the Babies' Care? the proposition of doing business for rived from the judging and fair offi- death blow to the fair itself. The reafailing was, of course, in the financial most worth while object of the fair. ess of education is a bad business to either the management has not secur- sand out of the other. be in. The worker who does the same ed for the fair sufficient local interest would have learned earlier with com- easy nickle now and then.



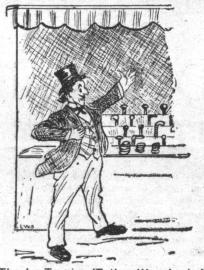
In judging, the animals are brought very thing, than any other. into the ring and the judge, after look-

ing them over carefully decides which faults and some of them may be very that can be "wibble wobbled" should one should be first, second, and third, large, but I have a great deal of faith and so on. The fact that he does make in the average mind of the public. such a decision constitutes no particu- There are a few people who like to be lar value to those who are watching humbugged; others take pleasure in the proceeding. The only educational throwing balls at nigger babies; playvalue of this is when the merits and ing games of chance and seeing the demerits of the animals are pointed diver loop the loop, yet the big, broad, out in such a way that everyone may average mind of the public does not see why one animal is placed ahead of care for this sort of thing when it the other. Many judges are prone to comes at such a high price in propordo this because they are afraid that tion to what it returns as it does at somebody in the crowd will doubt most fairs. Prices run something like their judgment, but the animal that is this: Ten cents to see some concesplaced first without a good reason is sion, and fifty cents to see the fair wrongly placed and so some arrange- when, as a matter of fact, there is a ment ought to be made for the judge hundred times as much education and to point out in a sentence or so, why amusement in the fair as in the conthe animal placed first is there and cession and any attempt on the part of why the animal placed second is in a fair management to create a greater that position. In this way there is the financial income through the granting greatest educational value to be de- of more and more concessions is a

thing for fifteen years finds that at the and support, or the county fair has done in an educational way, that is, is a more particular job than it ever end of that time his mind has become been allowed to become the nest of have the superior qualities of the first was before. This year people do not considerably dulled and it is very hard professional gamblers who follow the prize product made clearer and the in- want to be bothered with nonsense, for him to learn the things that he race horses in an endeavor to get an ferior ones of the others brought out, neither do they care to spend their parative ease and the fact that a man In their handling of concessions, tion. Where fairs have been continu- nor never have begrudges the money

do not find the same samples of corn being brought in for competition that were brought in five years ago. Five years ago the farmer went out and brought in the very largest ears he could find regardless of whether or not they would make good seed, whether they were uniform or showed breeding in the least degree. Now, however, when we see the exhibits of corn at fairs very seldom do we find medium sized ears and these much the same in size, color, type, and shape of kernel. This shows the educational values that have resulted from the fair.

One of the first things that should be taken into consideration when a fair is being planned out is to provide for suitable and competent judges. The to understand and intelligently judge no head work is a deplorable condition judgment that a man does who, when judge who makes the awards is the the merits of any case that may be in that it benumbs the mentality of he finds himself in debt promptly forg. man who really sets the ideal for those es a check to pay that debt. This im- who are looking on. Ideal setting is And so the fair, no matter whether mediately causes his downfall. So fair dangerous business unless it is done thing in the category of human endeav- it be state, county, or community that boards when they have found them- by a man who is sure of his ground. or to attain this end. However, we sit does not have for its greatest purpose selves going financially "on the rocks" Because a man is a good cattle feeder at the feet of the old truth which is, the education of both those who take have immediately resorted to innumer is no sure sign that he would be a that knowledge and education are the part in it and those who are guests able concessions, many of them of a good judge of cattle and the practice real solutions to any problem. We does not fulfill its greatest function. It questionable sort in order to make up of some county fair boards of merely want neither cut and dried orange is for the purpose of education that we the deficit in the finances. This progetting a cattle man to judge their catpeeling that may be fitted over the institute such features as judging cedure, however, has simply hastened tle is an erroneous one. The judge object, nor patent medicines that cure teams, junior exhibits, junior handi- the downfall and probably more fairs should have a well defined ideal of lie dead or dormant today through this wheat these animals should be. Not only this, but he must be fearless and The American public may have many confident of his own judgment. Judges

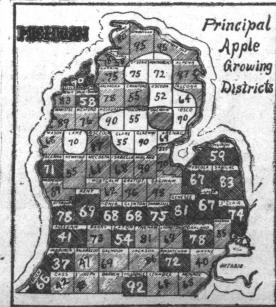


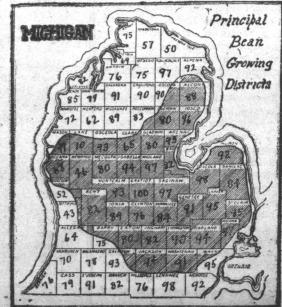
"They're Turning 'Tother Way Again." farmers collectively and most of them cials should bear in mind continually soning is much like the cry of the by all means be so handled before the have failed. Their most noticeable that the educational feature is the liquor people that the commonwealth fair and a substitute who can't be placwill miss the money that is derived ed in their positions. The three or way while really their most miserable. In many cases, the county fair has from licenses, when as a matter of fact four judges in the show are the ideal showing was the educational one. Any about had its day and this is usually it is a case of putting a hundred dol- setters for the community and picking business that goes on without the proc- brought on by one of two reasons: lars in one pocket and taking a thou- them out is a painstaking and careful job.

If we might have all of the judging Getting ready for the fair this year the fair would fulfill its highest func-money for trifles, but they do not now is required to do a thing that calls for some fair boards have shown the same ously held under wise management we that was spent in an educational way.

#### Condition of Our 1918 Potato, Apple and Bean Crops







Shaded Portions of these Maps Show Most Important Producing Sections of the Crops Named. Figures Represent the Condition of the Re Crops in the Various Counties According to U. S. Crop Reports. Maps were Compiled by Research Department of the Michigan Farmer. Condition of the Respective

# Sell the Best, then Can the Rest--- By C. B. FORD, Kent County

with putting them on the market in reach the market. condition to command top prices. Big ing as in growing the products.

drawback to making a profit from his ment to distant markets. farming. No doubt it is, but the fault cars or freight houses.

Attractive, properly matured fruits will always be in demand at a profit- and evaporators and utilize these ing sections Promoted by clever able price. Furthermore, it should be the aim of every grower to grow, harvest and market products just a little better than the average. Many believe that the present rate of fruit-tree planting and the development of truck lands will soon result in over-production of fruits and vegetables. may apply to the poor grades of these products, but it need never worry the grower who produces high-grade fruits and vegetables by combining intelligence with careful picking, packing, grading and shipping.

The careless grower who places in his packages fruits and vegetables that are over-ripe, green, blemished and imperfect, not only pays for packages and transportation for this undesirable fruit, but he is sending packages to market that are not desirable to the commission house, the jobber, the retailer or the consumer, and in the shape our transportation lines are today, he is actually preventing good products from reaching the big mar-

past year, and, as a rule, they have no year in a period of five years. desire to fool dealers or consumers crops as it is for good products, and safely discard the pistillates. the cost of handling it. Sixty bushels ities and your dealer are all right.

is not entirely at the selling end of the duces a certain amount of inferior making a product that nobody wants. transaction. The bulk of products are fruit. It sometimes seems as if some not put up in shape to stand shipment old witch has put a curse upon it. Con- vert his cull products into fancy home and bring satisfactory returns. Crates, siderable of this fruit is perfect ex- canned commodities will find it possipaper boxes and labor cost money, but cept for tiny defects that prevent ship- ble to utilize a large share of fruit the farmer must pay for them before ping, hence it lies in the cull pile, or that otherwise would be unsalable, but he can put his stuff on the markets in is a little less perfect and is not gath- as a rule, it seldom pays a grower to condition to bring satisfactory prices. ered. In years of heavy yields and attempt to put up canned products of Freight or motor truck charges repre- low prices it may be quite perfect, but distinctive quality from inferior prosent cash expenditures and must be cannot be harvested and shipped at a ducts. paid for before the produce leaves the profit. So there it stays, rotting in the

ROWING large crops of choice consumer with as little waste as pos- waste products the same as the Ger- agents of the big manufacturing confruit and vegetables is a com- sible. This will require prompt action mans do? Think of all the poor fam- cerns hundreds of communities have paratively easy task compared and quick selling after such products ilies that would be glad to get them. been swindled into taking shares of In many fruit-growing regions motor Which looks like a wise suggestion, these concerns have been operated yields alone do not necessarily mean trucks have made it possible to put the But it isn't. For the same old witch successfully for one or two years and big profits. Net profits—the only ones culls on the market in a few hours which has apparently cursed the fruit then closed down. The buildings and which count at the end of the year's and at comparatively low cost. One has been ahead of you and the moment machinery are warping and rusting, business—depend fully as much upon successful orchardist has solved the you touch this fruit your troubles be- the windows are broken and spiders one's skill in packing, grading and sell- problem by using a motor truck to gin. You find yourself competing with have spun webs across the doors. market his cull fruit at a nearby city, a big industry that does business on The farmer of today looks upon the making trips at the season when his slender margins of profit, and does fluctuating prices and demands make marketing problem as the apparent main crops are being packed for ship- them efficiently—so much more effi-Every fruit-growing community pro- that you will probably succeed only in

The grower who is prepared to con- block to many concerns who have

The fruit growing regions of the cull pile or on the tree, bush or vine. country are dotted with wrecks of lit-"How wasteful, how unpatriotic," peo- tle canning and by-product establishpacked in a clean, bright crate or bas- brought to their attention. "Why don't cull fruit. Most of them are to be ket, bearing a neat, distinctive label the farmers build canning factories found in small towns in the fruit-grow-

Why doesn't somebody do something? stock in wild-cat companies. ciently than you can possible do them ducted on a small scale. Then, too, lertaking have proved a stumbling-

gone into the business of handling these cull products. Another factor which makes it exceedingly difficult for small community canning and evaporating plants to succeed is the fact that people are demanding products carrying an advertised trademark, as well as sufficient supply to meet their demands throughout the year. It stands to reason that the plant that operates spasmodically and vegetables, carefully and honestly ple exclaim when this situation is ments that were started to save this and without any fixed quantity of raw material cannot compete successfully with the more efficient organizations

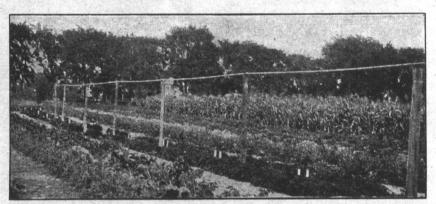
The uncertainty of fruit crops and

the business too hazardous to be con-

the difficulties of financing such an un-

operated by men with ample capital, competent helpers and traines sales-

Summing up the situation in a nutshell it seems to me that the problem of marketing perishable fruit and vegetable crops is one of careful packing. grading and shipping of the sound specimens, prompt selling of the culls whenever possible, and home-canning and preserving of all the specimens that-may be used profitably for such purposes. While the market for homecanned fruit and vegetables is somewhat limited, yet the possibilities of developing trade a mong grocers, delicatessen stores and private families are unlimited for the grower who has canned products of superior quality and flavor.



Irrigation Sets the Weather at Naught and Insures an Abundant Harvest.

# The Latest Ideas In Berry Culture

was good enough for us several years bors with them. It is true that growers have been ago is not good enough now. It is saf-

with badly packed, unfit products. The with other berry growers, came to the a little sprouty, it kills myriads of main out of a fenced garden. real trouble, however, is that the ma- conclusion that pistillate varieties of weeds. If on your soil, your plants do jority of growers do not understand strawberries were unnecessary. After not winter-kill by heaving, try mulch- need a little rain at frequent intervals. what is necessary for an honest pack, going through three years of frosty ing part of your bed and leave the Light showers coming often are more They do not realize that the expense weather during blossoming time and rest unmulched. In picking time, no- conducive to growth than a heavy rain of packing and shipping is just the losing most of our crops of strawber- tice how clean your mulched portion followed by a long dry spell. Some same for rotten berries, peaches, toma- ries except the pistillate varieties, we will be compared to the unmulched market gardeners install watering systoes and other fruits and vegetable came to the conclusion that we cannot even if the straw is all removed. Cul- tems such as illustrated in the photo-

freight in shipping it to the city mar- markets, ship small lots to individuals ity of the fruit produced.

marketed will return more profit to ings during the height of the season in his four quart handy of berries, he Vegetable growing means hard work the grower and furnish more good that bother the grower to dispose of at placed a number on it. In this way and a large amount of time expended fruit for the consumer, than one-hun- fair prices. Anticipating these days, we were able to tell all about who on a small area. However, the effort dred bushels of average orchard run I urge the dealers to make a special picked that handy of berries. As a to produce a fine variety of first-class fruit. If the inferior fruit and vegeta- effort to sell for canning on these days result, the standard of picking was truck for home use saves expense in bles are to be put on the market means at reduced prices. I am also accum- raised. should be devised to get them to the ulating a list of people in different New Yorks

the variety question is the most from their friends and neighbors for ers and consumers the impression that berry grower must keep testing varie- miles from us handled twenty-five to work off their cull stuff at high are continually improving and what us last season, supplying her neigh-

that the best market for the cull stuff I used to send most everything I but shallow, from the time the berries is on the farm where it grew, thus sav- raised into New York, Boston and oth- set until picking is over and you will which sometimes nearly ruin fine crops ing the cost of labor, packages and er big cities. Now I seek the small be surprised at the quantity and qual- of vegetables. Doubtless the installa-

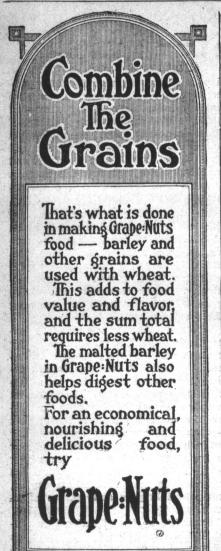
does not mean that the consumer will big city is the best place to secure a past season, put their name and num- cases by an effort to irrigate the garpay more for his produce. It simply long price when there is a great short- ber down on a sheet of paper each den crops. This will prove an espeeliminates the unsalable portion and age, provided your transportation facil- day and gave them each small slips of cially valuable asset if vegetable growpaper with their number on the little ing is to be depended upon for a part of apples properly graded, packed and There are always one or two pick- slips. When a picker brought or sent of the farm income.

#### FENCE THE GARDEN.

Fencing for the farm garden is un-BELIEVE that to the berry grower towns and cities, who secure orders doubtedly a necessary investment unless all stock in the neighborhood is important question of all. The fruit canning. I ship to these people on maintained under good control. It kets. Many farmers who profess to be grower does not obtain maximum re- these days that otherwise would be should be high enough and tight honest and patriotic men are shipping sults until he finds the exact variety glut days were it not for this fore- enoul to keep out poultry. Some produce to market that gives the deal- that fits into his niche. The successful sight. One woman in a city thirty-five farmers fence their poultry and leave the garden unprotected. Others fence they are malicious pikers endeavoring ties himself. Varieties of berry fruits crates of strawberries in one day for their garden and give the poultry the freedom of the farm. My observation leads me to believe that the farmers I find that one of the greatest val- with the fenced gardens raise the most severely handicapped in securing com- est to plant several varieties as no one ues of a winter mulch for strawberries and the best vegetables. A confined petent labor and suitable packages the variety will pay the best of all every is in killing the early crop of spring hen will fly out on occasions but a hen weeds. If the mulch is left on until with the freedom of the remainder of A few years ago we, in common the plants have grown a little and look the earth will often condescend to re-

In order to do their best, vegetables tivate the rows close up to the plants graph, and they find the investment an tion of systems for supplying water to ket. Such a close system of culling and encourage the local demand. The We numbered each berry picker the farm homes will be followed in some

> keeping up the table and makes the farm a better place to live.







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# Late Summer's Work in the Cornfield

permit the corn plants to survive the cape of moisture. his crop. More than ten thousand second cultivation of the field. tion of moisture. Each wise stroke of ing stalk. It may not seem a serious the cultivator is multiplied beyond computation in the final yield.

Even after the plants are too high to permit cultivation with the two-row cultivator a vast amount of good can

DIVIDING STOCK PROFITS.

A furnishes team, tools and seed; B, of course, does all the work for one-third of crops. Now A furnishes half the cows and feed, and B furnishes the other half. What share should B get for doing the work of caring for the milk? Is this the fifty-fifty plan? If B owns his own cows and feed he should have all the milk, I should think. Then what would he get for carrier for A's half of the cows? caring for A's half of the cows Mrs. I. E. D. Kent Co.

As a general proposition I believe that in all cases where an equal number of cows are furnished by A and B, and fed from the crops grown on the farm, and where A and B each furnish one-half of the purchased feed, the cash receipts from the sale of milk

should be divided equally.

If either party furnishes all of the cows he should be allowed a certain fixed sum, say \$10 to \$15 per cow per year, for depreciation. In this way he will receive compensation for his added investment and the arrangement will not affect the problem of dividing the income from the milk.

In these days of high-priced labor, I believe that, the land owner who furnishes the land, buildings and cattle can well afford to give a good tenant, who furnishes his work teams and farm tools, half of the milk money and half of the cash crops. Other details must be arranged by the parties according to distance from markets and other factors which influence the cost of putting the crops and products on the market. The mere ownership of the cows should not influence the division of profits.

Where cows are kept on a farm operated by a tenant, who does all of the work and furnishes one-half of the purchased feed, the increase in the herd and the growth of the young animals should be a fifty-fifty proposition.

W. M. K.

GETTING THE RIGHT KIND OF RESULTS.

The Four-County Cooperative Association of Chamberlains, and including St. Joseph, Cass, Van Buren and Kalamazoo counties, was formed in December, 1917, with officers as follows: President, J. M. East; vice-president, F. A. Ward; secretary-treasurer, Mason Houts; manager, H. G. Shannon. Since January 1, 1918, thirteen cars of live stock have been shipped which netted over \$25,550. With a membership of seventy, and more joining after each shipment, the prospects are good for a strong association here.

Rare, indeed, are the seasons when be done the crop by keeping the single thing to cut off a few of these roots, corn fields neglected during the late cultivators going through the rows, but to keep the cultivator running all summer produce maximum yields. A separating the soil particles, develop- day and cutting out hundreds of thoulittle timely attention at this time will ing plant food and preventing the es- sands of these little feeders is nearly

cooperate with him with increased ac- the operator should carry a vivid mentivity if he keeps the field free from tal picture of the soil filled with tiny rows that are exposed to injury. weeds and the soil covered with a rootlets whose business it is to gather loose mulch to prevent the evapora- food and moisture to support the grow-

as bad as throwing away bushels of competition of weeds and the distress Because of the difficulties in stirring corn after it is harvested and safely of drouth and come through the season the surface of the soil with large shov- secured in the crib. An ignorant man with sufficient vigor to produce a ro- els without running them very deeply, turned loose in a corn field can do bust ear. The growing corn plant must they should not be used after the roots more damage in a day than four cows. have suitable soil and moissure condi- occupy the most of the space between It is not necessary to maintain a deep tions to enable it to store up nutri- the rows. The small shovels do more mulch. Merely maintain a thin blanket ents to develop a sound ear in the fall. correct average quality of work dur- of loose soil during periods of dry It is a plant capable of utilizing a great ing the later cultivations of the crop, weather. To this end shallow cultivaquantity of food materials from na- and unless persistent early rains have tion may safely be continued even unture's stores if the conditions are fav- befouled the land so that a desperate til the corn begins to tassel. If the orable. The man with the cultivator fight with weeds is necessary the large season is particularly dry the dust may do much to shape conditions for shovels should not be used after the mulch will prove beneficial during the later stages of growth, provided, of plants on every acre stand ready to No matter what type of cultivator, course, that proper care is taken to prevent damage to the roots near the

> Conditions in nature vary so widely that in our efforts to deal with weeds and simultaneously maintain a blanket of loose earth to protect the corn plants from drouth, there is fine opportunity for the exercise of fine discrimination and judgment on the part

of the farmer.

#### OATS FOR THE SILO.

I have been thinking of cutting up oats when it is about half ripe, and putting in the silo. Has this ever been tried out or is it no good? I have tried clover, which is better than cornstalks for milch cows.

The oat plant is undesirable for silage. Care must be taken in packing the silage, if there is not sufficient air left in the stem to cause mold. If trampled thoroughly and sufficient water added you can make good silage out of oats. It should be weighted down to exclude the air.

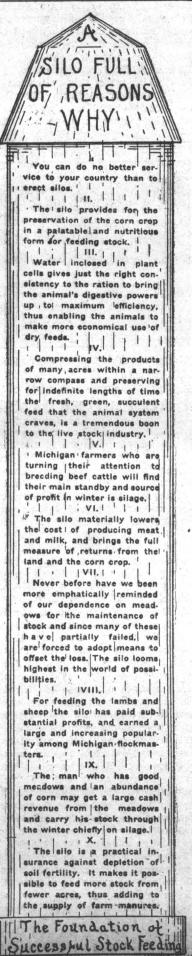
I would make the oats into hay and feed them in that way, or let them ripen. Cut before they are dead ripe, and the straw makes good fodder.

Clover is not an easy plant to make into silage but this can be accomplished if pains are taken in tramping, but clover made into silage is superior to oats because it is almost equal in protein and packs better in the silo. Clover silage is better to feed dairy cows than cornstalks. Clover matures at a time when it is easy to make hay. Corn is the great silage crop. It keeps well in the silo and matures at a time of the year when it is difficult to care for it in any other way. I think it best to fill silos with corn if possible and as we need dry forage to feed with the silage, make plants that mature when they are easily cured into hay and fodder. COLON C. LILLIE.

#### DEVELOPING YOUNG ANIMALS.

(Continued from page 67).

During the first three weeks of the calf's life from four to six quarts of whole milk per day divided into three feeds will give good results. Thereafter skim-milk, grain feeds and hay may be profitably fed until the youngster is six months old. Skim-milk should play an important part in the diet of the calf. One cannot afford to omit skim-milk entirely, although prepared calf foods may be used to supplement a scant supply. When the calf is three months old silage may be fed once a day while at six months of age it will make good use of two feeds of silage each day. As early as possible grain should be introduced into the calf ration. One-half a pound a day of a mixture made up of equal parts of cornmeal, wheat bran, ground oats, with the hulls removed, and half a part of linseed meal constitute an excellent calf ration. The skim-milk and grain ration should be continued after the calves are turned out to pasture, unless grass is unusually good and they are old enough to maintain growth and flesh condition without additional feed.



# Lime Puts Kick in Fertilizer

improved by the use of lime.

the soil which otherwise would be un- compact and retentive of moisture.

Lime not only corrects soil acidity, available for crop growth. This is a thus making it possible to grow nitro- point that Michigan farmers cannot gen-gathering crops, but it makes it afford to overlook in these days of potpossible for farmers to derive maxi- ash scarcity. Even on muck land many mum benefits from the use of farm truck growers are finding it necessary manures and purchased fertilizers. One to resort to the use of lime as a means of the most striking economic wastes of liberating the potash necessary to in American farming today results make the use of other elements of from the purchase and use of commer- plant food profitable. On heavy clay cial plant foods before the chemical soils lime has a tendency to separate and biological conditions have been the particles and make the soil more retentive of moisture. On the other Lime not only renders the soil more hand, loose, sandy soils may be imhospitable for nitrogen-gathering crops proved by the use of lime, because in but it liberates chemical elements in this case the lime renders them more



Yes, Sir! We Apologize to These Hogs for Calling the "Huns" Swine.

# Wheat-"The Staff of Liberty"

(Continued from first page). hard season, on which we can depend. A. C. is as follows:

Prepare a Good Seed Bed. proper settling. Where corn and beans sown at once. are removed sufficiently early, thor- The use of manure and acid phosough disking will fit properly.

er than wheat.

Treat with Formaldehyde-Carefully.

will control this disease effectually. tural College of injury from the con- hardy variety at the right date to secentrated formaldehyde treatment cure good top growth, fertilize with through carelessness in the treating, acid phosphate or high phosphate car-When properly employed this method rying fertilizer, and manure, top-dresshas been shown to be a safe one but ing areas where winter-killing is likely it is important to follow carefully the with straw or strawy manure." Do directions given and treat just enough these things and drill wheat next fall wheat for seeding during the day. It in the same spirit that Michigan boys is often disastrous to hold treated seed drill in camp, and Michigan's next over, for the formaldehyde leaves the year's wheat crop will go over the top wheat but slowly. The method advis- with a rush.

ed by the Bontany Department of M.

Use formalin or formaldenyde solu-Preparation of the seed bed for next tion at the rate of one pint to fifty year's victory crop should begin early, bushels of grain, use one-half pint for just as soon as oats are harvested. Oat twenty-five bushels and for other land which is to be given over to amounts in proportion. Put the fresh wheat should be plowed and worked formalin, just as it comes from the at intervals of ten days to two weeks druggist into a pint or quart handuntil planting time. The land on which sprayer and spray the grain which has spring-seeded crops have failed which been spread out on the barn floor. are not seeded to buckwheat or other Spray the grain as it is shoveled over short season crop, can be made to and over. Keep the sprayer close to yield good profit by thorough summer the grain and the penetrating odor of fallowing in preparation for wheat. the formaldehyde will give no discom-Wheat starts off best on a seed bed fort. When the right amount of formfirm in the lower part of the furrow alin has been applied, shovel the grain slice and well worked at the surface. into a heap and cover for exactly four To prepare this kind of seed bed re- hours with bags, canvas or blankets. quires the use of roller and harrow af- The grain should then be spread out ter plowing, and several weeks for for a few hours' airing. It should be

phate and high phosphate fertilizers Many of last year's failures have oc- cannot be too highly recommended. curred on light soils of a nature not Manure worked into surface at time well adapted to wheat. With the Ros- of preparing seed bed will give plants en rye giving such splendid results, it a vigorous start and help protect durwould be best judgment to put rye on ing winter. A light top-dressing of light lands or worn soils, keeping the strawy manure or straw, applied in wheat on loams and clay loams and on late fall or early winter, is a great protection and will often mean many Severe injury from joint worm has bushels in yield. Two hundred to three occurred in many localities and in hundred pounds per acre, drilled in at these sections it would be advisable to time of seeding wheat will on the avergrow rye or a spring season crop rath- age Michigan soil give from two to eight bushels in return.

It is possible to summarize advice of The stinking smut occasionally caus- Michigan's most successful wheat es great loss. Proper seed treatment growers in the following sentence: "Prepare seed bed early and work it Reports have come to the Agricul- thoroughly, plant treated seed of a



# Get That Extra

SAVE stable manure. It's worth a lot of money now. Either spread it when it's fresh and contains all its fertility, or pile it where the losses will be smallest, and spread it as soon as you can. Balance it with phosphate if necessary, spread a little on many acres rather than much on a few, but don't waste a single lump. Stable manure is working capital. With it you can get bigger, better crops off the acres your present help can handle. Waste it, or neglect it, and you are losing an easy, handsome profit, probably more than enough to pay for a new

Low Corn King, Cloverleaf, or 20th Century Manure Spreader.

These machines do the kind of spreading that has been proved most profitable. They are all low, light draft, narrow box, wide spreading machines, made in three handy sizes, small, medium and large. They spread a full load in from three to five minutes, in an even coat that extends well beyond the rear wheel tracks.

Stable manufactures proposity handled will income.

Stable manure, properly handled, will increase the crop production from any soil. Buy one of these spreaders and get that extra profit. See the machine at the local dealer's place of business or write us for spreader information you ought to have.

International Harvester Company of America

CHICAGO



SILAGE cut when ready to be cut, is 100% silage. But silage that loses nutritive value in the field because the custom cutter is late will not put as much meat on your stock. The only way to make sure of having 100% silage and your silo filled from base to top, is to cut it yourself with the



The cutter with four big patented features—Automatic Safety Yoke, protecting operator; Cushion-Drive, protecting machine in its steel-plate case; Springless Compression Force-Feed and rigid, aligned knife-adjustment. These features prevent costly delays and repair bills; your silage is succulent and mold-proof because cut clean and fine with straight, easily sharpened knives as fast as you can feed corn into the hopper. Solid disk runs in 3M. bearings; fans throw and blow to the top of the tallest silo, saving power. Steel-rail base and strong construction to serve and endure for many years. Sizes for 4 H. P. up.

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## A Modern Stucco Hen House

factory in every way. It is built having no cracks. in the monitor type, the sloping windows above allowing the sunlight to three feet wide which runs the length fall directly on the roosts.

have unbleached muslin curtains tack- in the scratching pens. ed on hinged frames which can be let down to keep out the snow when the through inward swinging doors of poulsnow. Our birds are not troubled with the dropping boards are being cleaned. frozen combs in the least. The pens are connected by gates of netting.

ered deeply with litter, and the roostterior walls are stuccoed, and the in- fectly dry. side walls of the roosting quarters are were poured on the spot. The advan- pulleys and a light rope.

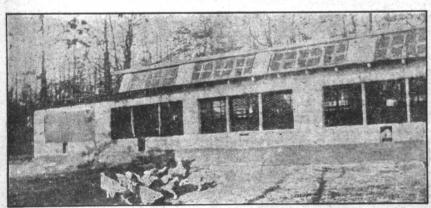
HERE is a chicken house that has tage of this is that they are perma-

Back of the roosting pens is a hall of the house. The nests are under the The scratching shed is 12x40, divid- dropping boards, and the eggs are ed by poultry netting into four pens gathered from the hall, the back 10x12, each accommodating thirty-five boards of the nests letting down into birds very nicely. These pens are op- the hall. The water pans are in the en on the south and the openings are roosting pens, and thus do not get covered with poultry netting. They scratched full of litter as they would

The roosts are cleaned from the hall wind blows from the south. The cur- try netting at the back of the dropping tain on the end is shown down in the boards. These doors are eighteen picture. These frames hook to the inches high and hinged at the top. The roof and are open during the days frame work of the roosts in each pen even in very severe weather. We close is hinged at the back and are lifted them nights in the winter in case of up and hooked to the side wall while

The roosting pens are divided by plastered walls, and from the hall by The foundation is of concrete, the poultry wire. There is a ventilator for scratching sheds have dirt floors cov- each pen in the back wall, which is covered in winter with unbleached ing pens have concrete floors. The ex- muslin. The walls are always per-

The small doors for the chickens beplastered. The dropping boards are tween the roosting and the scratching made of solid concrete slabs which pens are controlled from the hall by



Modern Stucco Hen House.

# Whitewash the Poultry House

disinfectant, it keeps lice and vermin also gives it a neat and clean appear- fore it will not peel off so readily. ance. It is not expensive and lasts well if prepared right. There are different methods of applying all of lhich are very effective. Before beginning the whitewashing, all cobwebs should be swept down. The windows should be taken out, all nesting material and, in fact, everything movable should be

All cracks and crevices should be soaked with the whitewash. Do not It is a good idea to go over the broodoften during the hot months. If this when the chicks are weaned. is done there will be very little trou-One-half bushel of unslaked lime slak- the milk, but they must be scalded frecommon salt in boiling water. Boil dishes in fit condition. three pounds of ground rice and mix During the hot weather the time with water to a thin paste. One pound spent in weeding and cultivating manof clear glue dissolved in hot water gels for the poultry will be well spent. and one half pound of Spanish whit- The green food not only helps in wining. Add all these ingredients to the ter egg production but it also keeps slaked lime and thoroughly mix all to- the breeders in healthful condition to gether. Five gallons of water will be perform their work during the next required for this amount to make it year. It costs money to raise green the right consistency. The whitewash food for poultry, but experienced poulshould be applied when as hot as pos- trymen soon find that it is one of the sible. Never prepare more than can most satisfactory factors in the ration. be used the same day. It is best to Fill the water pails twice each day prepare a cheaper whitewash for the

The whitewashing of the poultry brood coops, etc., since they should be house is something that should not be gone over several times during the neglected. Whitewash is an excellent year. This can be done by using only the lime and salt. The glue and rice away, makes the house lighter and makes the wash stick better and there-

CARRIE GALLIHER. Ohio.

## Summer Notes

Old hens in brood coops should be furnished with green food to keep them in healthy condition. This can be done by giving each hen a handful of clover every day. Old hens become more or less devitalized during their time of confinement while brooding put on sparingly but give the whole young chicks, but if an effort is made house a good coating inside and out. to furnish them with a balanced ration they will keep in fair condition ers, brood coops and colony houses and be physically able to produce eggs

Sour milk is an important factor in ble with lice and mites and the chicks growing chicks rapidly but it must be will be kept healthier. A good way to fed in clean dishes. The sanitary feedprepare the whitewash is as follows: ers are useful in keeping dirt out of ed in boiling water. Use enough wa- quently to keep them sanitary. Dirty ter to keep it covered during the slak- milk is unfit food for young chicks and ing process. Dissolve one peck of much trouble is necessary to keep the

(Continued on page 79).







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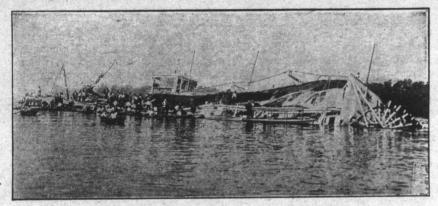
# Magazine Section

LITERATURE POETRY HISTORY and INFORMATION

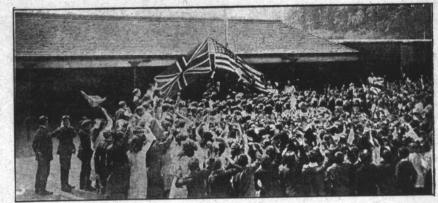


The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

# WORLD EVENTS IN PICTURES



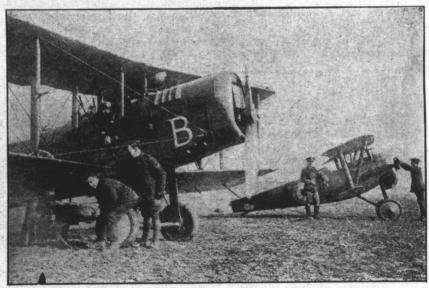
Excursion Boat Columbia with Five Hundred on Board Sinks in Illinois
River After Striking a Sand Bar.



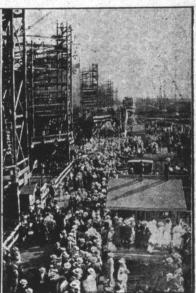
Eight Hundred School Children of London, England, Cheering Old Glory and the Union Jack Floating Side by Side in the Cause of Democracy.



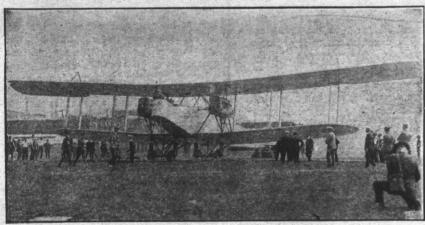
Girl Ushers, Latest Innovation at Baseball Games.

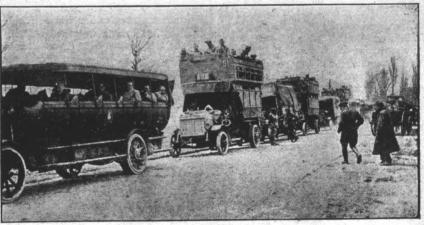


Preparing a Pill for Fritz. The Boys of the Aviation Corps Sometimes Make their Own Bombs.



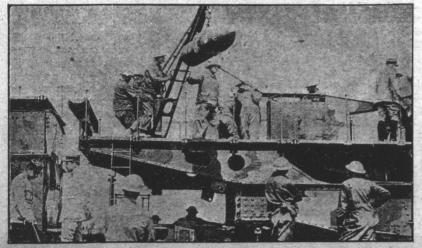
Three Ships were Launched at New-ark Bay Yards July Fourth.





Monster American-built Bombing Air-plane, Largest Built in this Country, All Types of Motor Vehicles Are Used in Rushing Allied Troops to Front in Being Launched at Elizabeth, New Jersey.

Anticipation of German Offensive.—(French Official Photo).

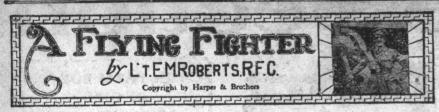


Americans and French Loading Huge Shells on Ammunition Train.



. U. S. Soldiers Entrained for Front Line Trenches.—(French Official Photo).

Copyright by Underwood & Underwood, New York



(Continued from last week).

thing from the elevation I was flying and once more lost consciousness. at and finally descended to about seventy-five feet. Meanwhile, my plane noticed that we were fying at a great had attracted the attention of the Huns height. My eyes fell upon a large cround me. It was very difficult under immediately behind our lines. I was these conditions to observe anything, still wondering why the pliot's face but I had an idea where the machine and goggles were covered with blood guns were located. I went over the and was making an effort to slide back ground a good many times, but seemed to him to find out what the matter was unable to get the exact position. My when he motioned me not to stir and patrol perioc came to an end before I stopped the engine, starting immedihad found the machine guns, but my ately gliding gently toward the ground. relief, to whom I gave whatever information I had gathered, discovered that artillery fire. The information was the job. flashed back to a battery, and within a very little time that Hun machine gun emplacement was no more.

When the position had been silenc- the ground. ed, the observer took a photograph of . Soon it became apparent that the doubting the very things I beheld. the scene and upon examination it was pilot had reconsidered, for I noticed found that eight machine guns had been hidden in the cellar. Since each of these guns could fire as many as six hundred shots a minute and do terrible havoc, the haul had been a good

At 3:30 that afternoon I had another assignment-contact patrol with the infantry. Everything at that front was in such a turmoil with shell fire and smoke that I was able to see but few features of the ground. All buildings, and in some cases whole woods, had completely disappeared, so that the aerial observers were now obliged to find a new set of landmarks. The buildings and trees which in the past had served as valuable marks to us were gone. We began to realize that in future we would have to be guided by the things which heavy artillery could not carry off-the hills, for in-

While on contact patrol I took messages until seven o'clock that night, when I was relieved by another machine. I returned to the aerodrome, to eat dinner, but the excitement of that we were swinging back over Hun- a blue dress?" I asked the nurse.

At 8:30 I was given an order to had taken from the Huns. make a reconnaissance flight over trenches. We were so low that I could ness take them under fire with the machine gun, and I killed about thirty.

of having been hit on the head with a by the Duchess of Westminster. sciousness, but seemed to regain my time pieces of bone had to be removed. The gunner had been taken prisoner. I was in Canada. Every one of them senses immediately.

again. I looked around at my pilot have to undergo another operation. men living, had gone down. "Fat" tor I now began to realize what a trial and saw that his face was covered The next time I came to my senses Brennan, another Canadian, had been

with blood and that blood had also run ly entirely upon my sense of touch. I ly what Sherman said it was. You see Upon my return I was sent upon over his goggles. My first thought was could feel the nurses doing things a pal one day and the next day he is patrol duty, looking this time for a that he had been hit, and though he German machine gun emplacement was sitting upright in his seat and external impressions came to me. I made mistakes in the casualty list. which had made itself very much dis- seemed all right, I made frantic signs tried to make them understand what I Once for ten months I was left under liked. But to find a well-screened ma- to him to start the engine. This he did, chine gun position is not so easy. I for a moment later the propeller be- ing. I supposed nobody could under- mine had been killed. Really he had had considerable trouble seeing any- gan to spin. I fell back into my seat

When next I regained my senses I

"I'll take you down," said the pilot. We had another place to go to and the guns had been placed in the cellar though I was feeling very badly, I of a building that had been razed by thought we might be able to finish

"No, go on," I said.

The pilot did not reply. Instead, he held the nose of the machine towards

I had been operated upon, but found wounded. that I could neither hear, see, nor talk. shock and Bolitho had been killed. Six I was very weak, and seemed unable members of the original squad were to think rationally. The slightest ef- still alive; all the others had been takfort I made at reasoning caused some en on their last flight. I also heard of the factors which I wished to bring that the squadron commander, one of into relation with one another to re- the best in the world, had been procede from my grasp. With my senses moted to be a wing commander. of sight and hearing gone, I had to rearound my bed, but aside from that no either dead or missing. But often they wanted, but such efforts were unavail- the impression that a good friend of stand the feeble movements of my been taken prisoner by the Huns. I en me seemed to be a matter of rou- some trouble making sure that he was tine, it was, nevertheless, ample.

towards me.

speech returned.

the darkness so long that I was now

"Are you wearing a white apron and

Davis had suffered shell

There is no doubt that war is exacthands. Though the care that was giv- met him in a hotel in London, and had really the man I knew. The same For two weeks that continued. My thing happened to me. My name apand their shells were bursting all wood which I recognized as one lying bed had meanwhile been placed peared on the casualty list among the against the wall in a ward known as missing several times. Then when I the Turner Ward. I felt that windows would show up at some aerodrome evand doors had been opened for the pur- erybody would wonder why I wasn't pose of airing the room. Suddenly a dead. The worst of it was that my old door near me was shut with a bang. I mother received cables of my being did not hear that bang, of course, but I wounded or killed on five different ocfelt the vibrations of it, which caused casions. The trouble in my instance me to jump, and as I did this I saw of was that in so big a crowd as an army a sudden two rows of beds on either almost any given name is found side of the room. A nurse was coming a good many times; and then generally somebody has the knack of thinking The same instant my powers of that the particular Smith or Jones who has been killed is the one he knew. As I looked at the nurse the thought There were times when it was indeed came to me that possibly I was mistak- difficult to keep track of one's friends en in all this. I had groped about in because the casualty lists were so large.

I received the best of care in the English hospitals and in two weeks after my last operation I was able to walk around quite well. After that I started in search of my baggage, which had not been delivered to me. Before long I found what was left of it. The thing that hurt me most was that all my good Hun souvenirs had been taken, and I was never able to trace one of them.

#### CHAPTER XV. Learning to Fly.

PON my discharge from the hospital, I reported to the general in charge in England, and he, after reading the report of my case, advised me not to fly any more. It took considerable pleading on my part to induce the officer to retain me in the service. But after a heart-to-heart talk I induced him to let me remain in the Flying Service. For the time being I was to be sent to a school of instruction, where I was to be initiated in the art of operating a machine myself. The course I was to take included the theories of aviation, construction of machine, flight rigging, operation, and general flying and mechanics as applied to air motors. To this was added meteorology and physics, bombing, and such things as wire splicing and the other little odds and ends one has to know in order to keep an airplane in good trim. I passed the examination easily enough.

Having had some experience in acered, and for a while I was tortured never lectured before and had some by the thought that again I might difficulty addressing a class, I soon When next I was conscious I found lapse into my former helpless position. managed to gain some proficiency in myself in the field dressing station. Gradually, however, I managed to get this. My lectures covered the work I They were bandaging up my head, and them under better control, and before had done in France, such as observaaerial fighting. There was no school quite successful and before long we given the anti-tetanus treatment and While at the hospital, I learned a of aerial gunnery on the training our return. But we were not home hospital on the French coast, the insti- men had not fared well. "Little" Jow- son my lectures interested the stu-

I was unconscious the greater part of Jimmie, a Canadian chap, had been wanted to get to the front and fight, When I was again in control of my- the time. One morning I awoke in an- wounded and it was believed that he and gave little thought to the fact that self, I noticed that the engine had other place and learned upon inquiry would be permanently crippled. Ran- before a man can fight he must be instopped. I believe it was that fact that I was in a hospital in England die had been killed. Old John and his structed and trained. Coming in conwhich caused me to become conscious and that within a few days I would pilot, Captain Burney, two of the best tact with this tendency as an instruc-

(Continued on page 77).

### The Soldier's Chance

Great as the danger and large as the losses in the aggregat,e, the individual soldier has plenty of chances of coming out of the war unscathed, or at least not badly injured.

Based on the mortality statistics of the Allied armies, a soldier's chances are as follows:

Twenty-nine chances of coming home to one chance of being killed.

Forty-nine chances of recovering from wounds to one chance of

One chance in five hundred of losing a limb.

Will live five years longer because of physical training, is freer from disease in the army than in civil life, and has better medical care at the front than at home.

In other wars from ten to fifteen men died from disease to one from bullets; in this war one man dies from disease to every ten from bullets.

For those of our fighting men who do not escape scatheless, the government under the soldier and sailor insurance law gives protection to the wounded and their dependents and to the families and dependents of those who make the supreme sacrifice for their country.

the battle had left my nerves in such land. As we neared the ground I saw a condition that I could not swallow a that some of our men were engaged in the woman ran off, and I heard her consolidating parts of a position they call a doctor.

The men in the trenches waved their more on the operating table. Hunland. This time I went up with helmets at us, and just then a volley the commanding officer as pilot. We of Hun bullets came up through the left me, I was indeed grateful to disflew over the Hun lines at a very low planes, making a noise like a snare cover that the senses which had dealtitude and approached a little village drum as they split the canvas. After serted me for a while were still with tual flying and fighting at the front, I just back of the German positions. that we headed for general headquar- me. I could see, hear and talk. These was later required to do some lectur-Near the village a relief party of Huns ters where, after making my report, I functions were still impaired, I discov- ing in different classes. Though I had was just entering the communication once more relapsed into unconscious

for which we were bound in quest of somebody told me that my skull had long I felt that my physical vigor was tion for artillery, contact patrol, and the desired information. The trip was been fractured by a bullet. I was then also returning. were sailing over No Man's Land on five days later I was an inmate of a great deal of our old squadron. Its ground in question, and for that reayet. Of a sudden I had the sensation tution in question being presided over ett, I learned, had been accompanied dents very much.

Instead of answering my question,

Within thirty minutes I was once

When the effect of the anesthetics

by a corporal gunner when their ma- I found that many of the men at the hammer. For a moment I lost con- I was operated upon twice and each chine was brought down by the Huns. school were of my turn of mind when

# By the Way"

#### UNAMIGINATIVE.

A teacher observed what she thought a lack of patriotic enthusiasm in one of the boys under her instruction.



"Now, Tommy," said she, "tell us what you would think if you saw the Stars and Stripes waving over the field of battle.'

"I should think," was the logical reply of Thomas, "that the wind was blowing.'

#### ALMOST ENOUGH.

A woman came into a photographer's studio in San Francisco the other day and said to the proprietor:

"Do you take children's photos?"

"Yes, certainly, madam."

"How much do you charge?"

"Five dollars a dozen."

"Well," said the woman, sorrowfully, "I shall have to see you again. I've only got eleven."

Patience without push is not a virtue, but a vice.

"Did your children get through the Fourth all right?"

"Yes, fortunately they were both down with scarlet fever."

#### PATRIOTIC LITTLE JACK.

Little Jack Horner

Sat in a corner

Eating a cracker made of wheat, corn meal, molasses, peanuts, alfalfa, kafir, ragweed and sage brush,

And said, "What a martyr am I."

#### DRAWING THE LINE.

A Doctor of Divinity, on his way home to dinner one day, meeting one of the divinity students, cordially invited the young man to accompany him, adding that he did not know as there would be much to eat. The invitation was accepted, and immediately upon being seated at table the doctor commenced carving a boiled ham that was doing duty for the second or third time.

"Why, my dear," exclaimed his wife in surprise, "You have forgotten something. You have not asked the blessing."

"Yes, I have, too," sharply responded the doctor. "I've asked the Lord to bless this old ham all I'm going to."

#### SOME WITNESS.

The prosecuting attorney had encountered a somewhat difficult witness

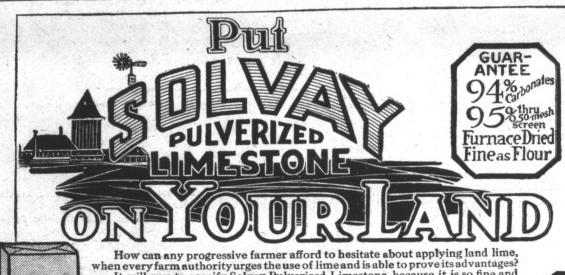
Finally he asked the man if he was acquainted with any of the men on the jury.

"Yes, sir," announced the witness, "more than half of them."

"Are you willing to swear that you know more than half of them?" demanded the lawyer.

"Why, if it comes to that, I'm willing to swear that I know more than all of them put together."





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In Bulk 100-16 in Box Cars



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

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FOR SALE—One of the oldest and best equipped dairy farms in Michigan on shore of Guil Lake, Kalamazoo Co., 2 good houses, dairy barn 30 x 80, caif barn 20x100, 2 large silos, all cement blocks; 200 cares, 70 graft (seeded), 15 corn, 20 alfalfa, 12 appless LONG BEACH FARM,

Augusta, Mich.

225 Acre Farm \$1200 Borders Sparkling Lake

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E.A. STROUT FARM AGENCY.
Dept. 101, 150 Nassau St., New York, N. Y.

FOR SALE 240 acre dairy farm fully equipped with milk route, fifty gallons daily. For particulars write owner H. M. NAVE, Lakeview, Mich.



# Grace Learns a New Lesson In Patriotism

By DEBORAH

HE drive home from Lansing with them, while in the kitchen Grace just witnessed, behind them, the shad- "I guess you'll find enough to eat," speech goes. In the front seat ed in the early dew before she left. hundred lads, twenty-five from their have gone away. John says if we raise pure wheat flour and piled high with that it was over and the boys could no ed back. "I wouldn't have missed it would never seek exemption when his that can't get Grace's butter," as he she wept freely and relievedly as she off while the riff-raff are left behind. how, they couldn't see the work to be about fats, eh, Grace?" went over the scenes of the morning. Isn't it inspiring to think they are done right here in the home trenches. Boys she had played with in childhood ready to give their lives for freedom?" and danced with in girlhood were going away to be blown up by submar- moment saved Aunt Ann the necessity ous section without waiting for cere- had left would learn to like trench life ines or shot down by murderous Huns, for speech. Indeed she could have mony. "Are these all the fried cakes with its filth and danger. "What a lot maybe bombed in hospitals, in order hardly replied, her heart and mind you've got? Gee, I could eat 'em all that she and their mothers and sisters were too full of the scenes she had myself." and sweethearts and wives might live on in America unmolested. stony-hearted pro-German wouldn't cry Grace sniffled quite audibly as she looked back and caught sight of Aunt Ann's calm face and dry eyes.

ped at the door before a word was spoken. Then Grace dried her eyes and insisted on Aunt Ann's coming in to breakfast—they had gone with only a glass of milk as a "bracer." Inside a kettle was soon bubbling and Aunt Ann put on plates and silver while Grace bustled about the kitchen seeing "what she could pick up," as she at last exchanged tears for conversa-

"Did you see Clyde Brown's mother after he left her?" she stopped as she put the plate of sugar-coated doughnuts near John's right hand. The plate was heaped, ten of them for the three. Aunt Ann couldn't have helped counting them if a Hun had stood by with a hand grenade aimed at her head. "I thought she was going to faint away, she got so white," Grace rattled on. "But she never shed a tear, and he's the last she's got." She hustled back to the kitchen to return again with white bread sliced for toasting and a pat of her own golden butter.

her six-weeks-old baby, to see Nat go, the dry ingredients sifted together. She'll have to go and live with his Add the flavoring and fold in the wellborhood gossip. "It seems a crime to in a moderate oven. send a man that's needed as bad as Nat is, and a bunch of lazy loafers hanging around the depot watching him go, left behind because they are past draft age. Mary certainly is gritty. She smiled and waved as long as the train was in sight, but I don't believe she knew what she was doing."

ham gems, puffy and deliciously sweet colored, then add the lemon juice and mixture of corn flour and baking pow- substitutes for the folks who can't get and just the right shade of brown, salt. Add sugar and beat until light. der and blend thoroughly. Finally fold anything else." gems were all the word implies. A and the sifted corn flour and bake in a Bake in muffin tins, filling only half self," John argued, his face flushed at cake of clover honey came forth to go moderate oven.

was made in silence so far as deftly hulled fresh strawberries, pick- owy silhouettes of the boys of '61. It Grace passed him his coffee and rush-

watch the boys leave for Custer. Five we might as well eat even if the boys ed thick with sugar, the cake made of it."

John's entry into the kitchen at that seized a doughnut and bit off a gener-

Cakes for War Times

During war times we can eliminate the rich, fancy cakes from our diet They turned into the lane and stop- and substitute in their place plain loaf cakes and sponge cakes that are made largely from wheat and sugar substitutes. Do not use rich icing that will require an additional cup of sugar. The following recipes have been tried out and found satisfactory:

Barley Spice Cake.



1/2 cup fat,

3 cup sugar,

1 cup corn syrup,

3 eggs.

34 cup of milk,

1 cup raisins,

3% cups barley flour,

6 teaspoons of baking powder, (level).

1 teaspoon salt,

1 teaspoon cinnamon,

1 teaspoon allspice,

1/2 teaspoon cloves,

1 teaspoon vanilla.

Cream the fat and sugar, add beaten egg yolks. Add the syrup and mix "Mary Anderson was there, too, with well. Add alternately the liquid and mother now," she continued the neigh- beaten egg whites. Bake for one hour

Corn Flour Sponge Cake.

4 eggs,

2 tablespoons lemon juice,

1/8 teaspoon of salt,

:1 cup sugar.

1 cup corn flour,

1/2 teaspoon baking powder.

From the oven came a whiff of gra- eggs, beat yolks until thick and lemon til very light. Add the twice sifted to the best. Leave the messes and

#### Chocolate Cake.

1/2 cup fat,

3/3 cup sugar.

1 cup corn syrup,

3 eggs,

34 cup milk, 2 cups corn flour,

1/2 cup ground rolled oats.

(level), 2 squares chocolate,

1 teaspoon cinnamon,

1 teaspoon vanilla,

1 teaspoon salt.

Follow same directions for making as for the spice cake. Individual Corn Flour Sponge Cakes.



1 cup sugar,

3 eggs,

1 tablespoon cold water,

2 tablespoons lemon juice,

1 cup corn flour.

¾ teaspoon baking powder,

1/4 teaspoon salt. way. This makes fifteen small cakes. the repetition of his recent words.

was all too big, too near for her to ed gems and eggs to him before she with John, Grace Ludlow was quite op- "I won't boil the eggs till John chatter about, but she could view started the electric toaster. These enly crying, while John himself had a comes in, he likes them right out of Grace's youthful effervescence with gems aren't as good as usual, Aunt suspicious moisture about his eyes and the water and just three minutes to a tolerance. Even so had she bubbled Ann. I've tried to get John to eat his mouth was closed in a firm, grim second," she announced as she bore in when the friends of other days left the cornmeal muffins but he says his stomline. Aunt Ann, in the rear seat, wore a pitcher of yellow cream and a plate same station. Yes, the chatter was ach wasn't made for chicken feed. He her usual expression of peace, coupled of her favorite four-egg sponge cake forgiveable, but, Aunt Ann looked at says let the Southerners eat it, they're today with even more courage and covered with almond icing. "I'm good the piled-up white bread, the dough- used to it. But if we raise the wheat trust. They had been to Lansing to and hungry after that long ride, and nuts innocent of substitutes and coat- we're going to have what we want

"Yes," broke in John. "I don't get own community, had entrained that it we're going to have our share first. icing, she sniffed the graham gems and much in this world, and I'm going to morning with usual accompaniment of I guess from all accounts they aren't sighed. Grace and John meant to be have what I want to eat as long as I cheers mingled with laughter-laugh- starving in France yet. I'm certainly thorough patriots. But did they get raise it myself. I never did like messter which drowned out tears. But now glad we drove in, though," she switch- the real meaning of the word? John es and substitutes. Let folks eat oleo longer see them, what was the use of for anything even if it is heart-break- turn came and Grace would send him spread at least two ounces on a half keeping up? So Grace thought, and so ing to see all our best boys marching away, dry-eyed and smiling. But, some- slice of bread. "We should worry

> "Did you see Mrs. Holliday there?" "I'm as hungry as a wolf," John Grace broke in before Aunt Ann could do more than wonder if the boys who she does to help win the war. She's in charge of the Red Cross knitting, chairman of the thrift stamp sale committee, in charge of the French war relief work two days out of the week. and now she's getting up that big bazaar and has plunged into the boys' and girls' club work besides. No one can question her patriotism, if her father was born in Prussia."

"You wouldn't think so," Aunt Ann waved back the golden toast Grace offered, "and yet I overheard two of her grand-children discussing it doubtfully just yesterday."

"You did?" Grace and John exploded in a breath. "Don't tell us she is in touch with Berlin and just doing this work for a blind."

"Well, not directly in touch with 6 teaspoons of baking powder, Berlin, but helping them to the best of her ability." Aunt Ann paused and stirred her coffee thoughtfully. "The children were wondering how grandma could ever get up and urge folks to buy thrift stamps and liberty bonds and her with one hundred pounds of wheat flour hidden in the attic and the government begging us not to eat wheat till the next harvest."

"Well, the idea," Grace exploded. "I should say as much. The nerve of her, and here she was lecturing just last week because I didn't knit, and me with all I have to do."

"Well, I don't know," Aunt Ann's eyes calmly inventoried the white bread the graham doughnuts and white cake, "I imagine she is quite logical about it. I suppose she argues that if she has the money to pay for it she has the right to buy it. Let folks eat substitutes who can't afford to buy twice as much cereal as they need in order to get the white Separate yolks and whites of eggs. flour. I believe women like her argue Beat the yolks until creamy, add sug- that all they have is what they eat, Separate the whites and yolks of ar, lemon juice and water and beat un- and they eat so little they are entitled

Aunt Ann knew they'd be. Grace's Fold in the well-beaten whites of eggs in the stiffly beaten whites of the eggs. "Yes, but she doesn't raise it her-

"She buys it and hoards it and keeps it away from poor folks."

"And you raise it yourself and eat it and keep it away from poor folks." Aunt Ann pursued her point. "I've been trying honestly and earnestly all spring and summer to see the difference, but I confess I've had to give up. I can't see the difference between the two ways."

"Well, I can," John insisted. "I raise the stuff and I've got a right to what I want of it. I don't see why I should starve if I've got the stuff right in my granary to eat."

"Starve?" Aunt Ann smiled at the loaded table. "Would you starve with buckets of milk and plenty of fresh eggs, potatoes, oatmeal, rice, chickens, fresh vegetables and a garden full of growing stuff? Do you think eating rye bread, cornmeal muffins and barley pass, when you have loads of things you want, and the folks on small salar- for each offense. ies have the right to argue that they guns. They seem to be the only ones pockets and finding that he had nothabout the chance to save their lives, the words: but the rest of us are all careful to hang on to our sacred privileges."

ed to eat and I'm always going-" late for the first class, sir." John began.

today. Here's where the Ludlow's get is not the easiest one can imagine. out of Mrs. Holliday's class and train with real Americans. Aunt Ann has opened my eyes, and I prided myself on being one hundred per cent patriot. Can you lend me some rye flour Aunt Ann, till John can get to town?"

#### CARE OF THE WINDOW AND DOOR SCREENS.

BY MRS. C. GALLIHER.

Quite often too little attention is given to the window and door screens, and therefore the screening of the house is quite an item, which if the proper care be given them they can be made to last several seasons.

They should be given a coat of paint when brought into use in the spring. A little linseed oil placed on a rag and the wire screens rubbed thoroughly on both sides with it, several times during the summer and again when the screens are removed and stored away for the winter, will be found sufficient to preserve and keep them from becoming rusty.

It is also necessary to give the frames a coat of paint or varnish in order to preserve them. They should if possible be stored in a dry place when not in use. A great deal of annoyance will be avoided and many dollars will be saved if screen doors and windows are thus cared for.

#### THE "BEEF RING."

One way to have a supply of fresh meat in summer, if not convenient to in the eternal blue, when all of a sudthe butcher shop is for a number of den the engine stopped. Well, that farmers to form a beef ring. The Ag- made a lot of difference. There are ricultural Extension Department of the no places in the air to which one can North Dakota Agricultural College has throw an anchor, so there was nothing issued Bulletin No. 5, which explains that could prevent my coming down the beef ring, giving a constitution and suddenly. by-laws and explaining just how a beef ring is operated.

ton blanket and slipping a pillow case motor. I began to dive. It so hapover it. This pillow will be much cool- pens that a Cauldron has no gliding er than the feather one, which can be angle. It glides as gently as a brick. discarded until fall.-Mrs. L. M. T.

## A Flying Fighter

(Continued from page 74).

I must have been in my recruit days. We had a Scotchman at the school who was of the regular daredevil variety. Discipline meant absolutely nothing to him. There was no order that he would obey and the result of it was that his troubles never ended.

We had been quartered in an old English Hall. The buildings, laid out on the lines of a U, had been erected many centuries ago, I was told, and the lawn in the yard was looked upon as something highly venerable for the reason that it had been planted by the original owner of the place. The recruits, who were a rather tough lot, had acquired the habit of using that lawn as a playground. To this the sponge cakes would bring you to that present owner objected, with the result that the commanding officer had a you do like to help you out? Of sign put up prohibiting trespass on the course, you've the right to eat what lawn under a penalty of five shillings

McCray, the Scotchman in question, earn the money and needn't buy lib- was in the habit of rushing across this erty bonds with it. But if they did lawn whenever he wished to reach the situation is generally regarded as exyou would be one of the first to shout dining-room. He had done this one cellent for the Allies. We all have the right to morning at breakfast. The commandrefuse to do our bit of sacrificing, but ing officer saw him, administered a suppose we all did. We might as well stinging reprimand, and wanted to colsend the boys over armed with wooden lect the fine. McCray reached into his who haven't any rights just now. The ing smaller than a ten-shilling note draft doesn't leave them much to say gave it to the commanding officer with

"Here's ten bob! Take it and I'll walk across it once more after I've had "Well, I've always had what I want- ma' breakfast, as I don't want to be

The commanding officer warned him, "No you're not, John Ludlow," Grace but McCray walked across the lawn broke in. "You're going to begin eat- all the same. There is no doubt that ing war bread and potato fried-cakes the lot of the officer training recruits

After passing my examination, I was sent back to France to learn practical flying with the Royal Naval Air Service Squadron. I was gratified to find that it did not take me long before I could handle a machine. I had gained considerable experience in flying as an observer. The machines we had used at the front had a double set of controls, so that observers were able to get their hand in gradually. These machines also were fitted with machine guns that did not synchronize with the propeller, and although the observer had to do most of the fighting, there were times when the pilot had to operate the wireless. In this case the observer was entrusted with steering the plane.

I learned to fly on a Cauldron, a French type of machine with a radial engine of 100 H. P. and a warp control. After an hour's flight with an instructor, I made my first solo flightthat is, I went up alone. I found that I had little trouble handling the machine, and made a good landing.

On my second flight I tried my best to break the squadron's altitude record, which was then 11,000 feet. I was up for nearly two hours, and reached an elevation of 10,500 feet-when "bang!" went the revolution counter.

That did not worry me, however. The engine showed no sign of having been impaired and kept on running. I decided to climb some more.

I was quite a ways above the clouds,

I tried to locate the trouble, but found that keeping the machine on an even keel would occupy me entirely For very hot nights try rolling a cot- without giving any attention to the

(Continued next week).



French and American troops push on arrive. and take heights south of the Marne.

Yanks for the present hold the door to Paris, and United States reinforce-forces ments are getting into action eastward towards Rheims.

Czecho-Slavs have defeated the Red Guards west of Irkutsk and the commissioners are fleeing to Mongolia.

Japanese battle ship Kawachi blew up and sank in Tokoyama Bay July Five hundred of the crew were

The Grand Rapids, Grand Haven & Muskegon Railway, an interurban line, applies for writ of injunction to fight

Rheims. Yanks stop each thrust of the enemy and smash forward. The

the American lines. Some 500 persons reported dying of

cholera daily in Petrograd. The disease is spreading to Finland.

Of the 637,927 American troops carried to Europe since April 1, 350,956

rere carried on British ships.

German rulers force the resignation

of Austria's Premier von Seydler, because of his advocacy of Emper Charles' right to administer Poland. Emperor

Friday, July 19.
The Allies begin an offensive from the region of Soissons to the north-west of Chateau Thierry, American and French troops capture twenty towns and gain brilliant victories along a twenty-eight mile front, wounding and capturing thousands of Germans and capturing thousands of Germans and large stores of ammunition and supplies. It is reported that the Americans take fifty cannon and 3,300 men at one point. The whole American nation rejoices over the Yank triumph.

landed safely and is probably a prisoner of the Germans.

New York republicans ask Colonel Theodore Roosevelt to enter the race for governor of New York.

Saturday, July 20.

Enemy reserves fail to stem Allied

smash, as they widen their attack and penetrate the foe line from three to seven miles, 360 guns are taken and 17,000 captives counted, while others are streaming back from the front. A bigger smash will doubtless follow the present attack, and Foch is now well fer the Eighty-fifth Division on the prepared and will in all probability first part of their journey.

Launch a major offensive to drive the Germans from French soil.

Uboat torpedoes the United States no circumstances will he accept the circumstances will he accept the circumstances.

arrange for the pro-rating of food supplies to prevent shortage.

Wednesday, July 17.

Germans are defeated in their attempts to advance east of Rheims. cision in battle before more troops

Sunday, July 21.

Violent attacks by General Foche's forces on the German right flank south of the Marne, have forced the Germans to retreat across that river. At the same time smashing counter attack after counter attack, the Allies are still sweeping forward, rolling up the German armies between the Aisne and the Marne. It is thought in mili-tary circles that the high mark of German offensive has been reached and that the initiative now is passing to the Allied armies.

A head-on collision between a pas-senger limited car and a freight car on the two-cent fare.

Thursday, July 18.

The French retake strongholds near Rheims. Yanks stop each thrust of Twelve are reported killed and forty-

seven injured.

Major Theodore Roosevelt has been blient for the Allies.

Thirteen Teuton fliers fall behind in Paris.

Monday, July 22.

Victories for Allied arms in France continue to multiply. Over the entire sixty mile front from Soissons to Rheims the Allied troops are steadily

gaining ground.
U- boat shells four boats off the New England coast, three barges were sunk and three men wounded. Three sea-planes attacked the submarine but were unable to do serious damage, be-

fore it submerged and headed south. Sunday's heat was reported not only the hottest day of the year but in De-troit where the temperature registered 103 degrees it was the hottest July 21 in forty-five years.

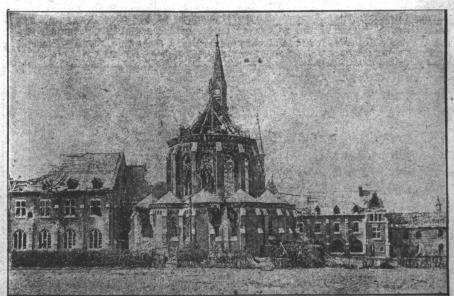
Several anarchists and I. W. W.'s were captured in a big Sunday raid at a roadhouse near Detroit. They were wearing their crimson emblem and making inflammatory speeches.

Tuesday, July 23.

At the end of the fifth day of Foch's Lieutenant Quentin Roosevelt, son of counter offensive the Allies are still ex-President Roosevelt, reported killed advancing on all fronts, although with when his aeroplane fell behind the six new picked divisions the enemy German lines. Is now thought to have are making every effort to stop the advance, late word last night is that the French and Americans have pushed six miles beyond Chateau Thierry. Be-tween the Marne and Rheims the British, aided by Americans, French and Italians are locked in battle with fresh Teuton forces at the foot of the Mountain de Rheims. Total prisoners taken by the Allies is estimated at about 25,000.

Thirty thousand soldiers from Camp Custer are now on their way to France. Seventy trains were required to transfer the Eighty-fifth Division on the

U-boat torpedoes the United States no circumstrators of the Allied nations to U-boat torpedoes the United States no circumstrators of the Allied nations to United States no circumstrators of the United States no circumstrators of New York. William Alden Smith fails to meet with Osborn and Newberry to bring about an agreement upon a single candidate for the nomination of United States Senator. Henry Ford was not invited to attend.



Famous Trappist Monastery of Mont des Cats, which Kalser wants Spared that he May Learn Location of his Relative's Grave, Prince Max of Hesse.



# Michigan Boys are Crowding the Huns

Written for The Michigan Farmer by George Carhart, Jr.

B OYS are producing food this year a vital factor in our work of winning on the farm has neither of these. All and with the proper sanitary arrangein enormous quantities. At the the war. same time the boys are conserving the food crops, we are conserving boys. This is, in a nutshell, the story of the Reserve. Food production is of winning the war. When his back is some diversion. Picture to yourself a of the United States Boys' Working one of the "all-essentials" and we sim- aching and the August sun is beating delightful little cottage set among the

I thought of those beets, I began to two million clean-cut athletically train- alive to the fact that where a boy is wish they were beans. But the boys came: they got into the hearts of the community from the very first by the fine appreciation they showed for everything that was done for them-and the sugar company has certainly fixed them up a splendid camp; and, under the supervision of their high school principal, they started to work. They came to my place among the first, and they delivered the goods. They saved the crop. And more than that, they did the best job in my beets that I have had done in three years." Another farmer in the same place said that the boys did the best job he had ever had done in all his experience in beet raising.

One farmer was opposed to the idea of boys on his farm. He was soon face to face with the unprecedented labor situation, however, he appealed to the Reserve for help, and a boy was sent. and fixed up all the "dead" engines boys now, and is asking for another.

These are samples of what is being

Strengthening Our Boy-Power. sending boys to us to work in the sug- for his work, and is properly related him. ar beets, I thought somebody was to the right sort of farm and farm crazy. I thought they would do more home, or supervised by adult leaders,

trict, a Saginaw county farmer said to but of boys. For I believe that a boy surroundings and the various agencies neatly painted, the grounds neat, ev-

The Boys Are Appreciative.

The physical conditions for maindamage than good, and take more of if in camp; who is placed in sanitary taining morale that I have mentioned our time to instruct than it would be surroundings, morally safeguarded, are not difficult of attainment, howev- work began, the boys drawn up at atworth. And I had visions of these and, in recognition of the fact that he er. Boys don't want a lot done for tention repeating the pledge to the high school fellows coming in and tear- is still a boy, provided with some di- them, but they respond to being treat- flag and singing the national anthem. ing things loose in the neighborhood, version and recreation that re-creates, ed with appreciation, common sense In the cottage, where the cooking is I have twenty-four acres of beets, and is an asset whose value we have not and decency. I find that the county done and the meals are served, the they were a beautiful "stand." When fully reckoned with yet. Think of the directors of the Reserve are keenly camp cook, who was also camp "moth-

alone, in many cases, he will be trying ments, with one or more adult superto realize this summer how his hum- visors in charge, and a program for My work is the welfare of the boys drum task is related to the great game the leisure hours that provides wholeply cannot overestimate its import-down, hot, this will be a difficult trees, surrounded by a garden, and On one of my recent trips among the ance. But I am trying to think of the achievement. The boy will need all adjoining it a new bunkhouse to accamps of boys in the sugar beet dis- problem in terms not of beets or beans the steadying influences that favorable commodate twenty boys, the buildings "When I heard that they were who has had some sort of preparation interested in boy life can bring to erything in order. A white flag-pole carries a new flag, its bright colors gleaming in the sunlight.

A Hoover Garbage Can.

The flag was raised before the day's er," presided. An air of thrift is about the place. "I just wish Mr. Hoover could see our garbage-can," she said, referring to its scanty contents. This meant that the gospel of the clean plate is observed here; but the boys are provided with an abundance of wholesome and attractive food.

After supper, in the camps, base ball is usually played, though many prefer the quieter game of pitching horseshoes. The evening often ends with a camp fire, around which stories are told, and songs sung, and many a humorous "stunt" performed.

The "Y" on the Jop.

The Clinton County Y. M. C. A. has placed what amount to miniature "Y" huts in the three camps in that county, equipped with reading matter, stationery, victrola and records, etc. Inter-camp games and athletic meets have been arranged by Y secretaries, and through them autos have been pro-This boy from the city went to work ed, willing American boys in their lat- properly placed with the right farmer vided to carry the campers to the old er 'teens, who are available, and whose at the first, the problem of morale is swimming hole. Grand Rapids and place. The man is employing three agriculture. We can match Germany virtually a member of the farmer's bership tickets without charge to all family. And so the directors are work- boys who show a card of enrollment in But there is, you see, a real problem ing on the basis of "selected boys for the Reserve, thus extending to them while in town the privileges of the building, the baths and swimming pool. In the fourteen camps now placed in It is the endeavor of the Y to put on



Sugar Beet Reserves and Camp "Mother."

and broken-down machinery about the energies can be turned into the field of largely solved, for the boy becomes other Y. M. C. A.'s have issued memin this line two to one.

done by boys of the Boys' Working of morale with this "Army Back of the selected homes." Reserve, in camps and on individual Army," just as there is with the boys farms throughout the state. They are at the front. Perhaps more so. The called "Soldiers of the Soil" and the soldier goes to the camp where, with the sugar beet district, the policy of a program for the Working Reserve "Army Behind the Army." These thousands of his associates, he lives the Michigan Division of the Reserve exactly similar to the army Y program names truly represent the nature of an intensified social life, yet under rig- has been to have all the boys of the for the military organization. Again,

How the Beet Camps Are Run.

the Working Reserve, for it is already id military discipline. The Reservist group in one place, properly sheltered it is recognized that the Reserve boys



Ready for a Swin. The "Army Back of the Army" Must Keep Fit.



The Swimming Hole at Camp Harrison, Durand, Michigan.

are soldiers—of an army that is fighting by farming.

Each Boy Matches a German Boy. I am telling the boys this year that everyone of them is matching a boy similarly employed in Germany. But the difference is this: That the boys in Germany who are under military age went to their places in the work of food production four years ago, as so many cogs in the kaiser's machine, while the boys of the United States Boys' Working Reserve have, like good American patriots, responded of their own choice, and have volunteered to do the hard thing that has to be done. For the other American boys, in other seasons to come, we are looking for no slackers to appear among them, and for no other slavish spirit to develop which has to feel the hand of compulsion, but for a willingness and pride that will cause every eligible youth to measure up to the high standard set by the Boys' Working Reserve this

#### THE BOYS' RESERVES.

BY F. L. WELLS.

They are fighting for their nation, With a vim that's good to see, Sacrificing their vacation, In the cause of liberty. 'Neath the swelt'ring sun of summer In a work that's new to them, Proving to each doubtful comer They can do their part like men

Still too young to carry sabres Over Europe's bloody field, Over but taken up the labors
Other heroes had to yield.
So without the battle's glamour,
Or with stars and stripes unfurled, They have buckled on the armor, For the freedom of the world.

When the vicious hun is stricken, And the war for peace is won.
When the history is written
Of the deeds of valor done.
On the page where each is given All the credit he deserves, In bright letters shall be written Heroes of the Boys' Reserves.

#### SUMMER NOTES.

(Continued from page 72).

and be sure that they do not remain empty for any length of time on a hot summer day. Hens need an abundance of fresh water if they are to produce eggs and keep in good physical condition. Summer egg production often falls off because of careless methods of feeding and watering during hot weather. Although eggs are apt to be lowest in the summer, every egg counts in determining the year's profits and it is easier to increase egg production in the summer than in winter.

Tell city friends the advantages of putting down clean, infertile eggs in water-glass and you may develop a good summer market among customers who will pay a slight premium above store prices for eggs that they know are of guaranteed quality. The poultryman will not injure his winter business by trying that plan as in the winter there will never be enough eggs produced to come near supplying the demand regardless of the price.

We believe that strawberries are benefited by allowing the poultry to range over the patch after the harvest The hirds do not injure the plants and they do seem to keep down the weeds and grass.

During the summer it pays to divido large poultry yards when green food becomes scarce. Then a crop of green food can be raised on one side while the birds are harvesting the crop on the other. When the second crop is ready the flock can be turned into that yard and the first can be plowed and replanted. In this way the soil is frequently worked and the fertility added by the fowls is placed where it will do the most good in crop production and cause the least harm in soil contam-Ingham Co.

R. G. KIRBY.

# WHEN THE TREATY OF PEACE IS MADE

THEN the time comes to make a treaty of peace to end this war, we must have in the Senate, the place where treaties are ratified, men of the highest ability, Let Michigan

the broadest experience, the best judgment and the most pronounced Americanism.

Our future will be in the balance.

Every man, woman and child will in some way be affected-each one of us will be directly or indirectly concerned by what is then done.

There must be no peace without victory.

The victory so dear-

ly won by our boys on the field of battle must be defended and safeguarded at the Council Board of the Nations.



Truman H. Newberry

see to it that we do not lose in council the slightest part of what we have with so much sacrifice won in the field. Commander Truman H. Newberry is the Win-the-War Can-

send a man to the

United States Sen-

ate who not only

has the ability, but

whose training es-

pecially fits him to

meet the demand

of a task so vital

to us all-a red-

blooded American

who will insist that

there be no peace

until we have won

the war-who will

# NEWBERRY UNITED STATES SENATOR

Published by Newberry Senatorial Committee
A. A. Templeton, General Chairman Paul H. King, Executive Chairman

Harvester Self-Gathering for cutfir Corn. Oais and throws in piles on
shocks equal to a Corn Binder.
Sold in every state. Price only \$25 with fodder bindor. The only self-gathering corn harvester on the
market, that is giving universal satisfaction.—Dexter
L. Woodward, Sandy Greek, N. Y. writes: "3 Years
ago I purchased your Corn Harvester. Would not
take 4 times the price of the machine if I could not
get another one." Olarence F. Hugsins, Speermore,
Okla: "Works 5 times better than I expected.
\$30 in labor this fall." Ray Apple.
Onio: "I have used a corn shacken see soille.
Onio: "I have used a corn shacken them all
and take less the price of the machine beats them all
and take less that on the beat of the machine of the corn
get another. The second of the corn
get and the service of the corn binder and the service of the corn
get and the service of the corn binder and the second
get another one. "Says it works fine and that I can sell
tos of them next year." Write for free catalog showing
picture of harvester at work and testimonials.

PROCESS MFG. CO.

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THE SELF-OILING WINDMILL

has become so popular in its first three years that thousands have been called for to replace, on their old towers, other makes of mills, and to replace, at small cost, the gearing of the earlier Aermotors, making them self-oiling. Its enclosed motor keeps in the oil and keeps out dust and rain. The Splash Oiling System constantly floods every bearing with oil preventing wear and enabling the mill to pump in the lightest breeze. Hoods every bearing with oil preventing wear and enabling the mill to pump in the lightest breeze.

The oil supply is renewed once a year.

Double Gears are used, each carrying half the load. We make Gasoline Engines, Pumps, Tanks, Water Supply Goods and Steel Frame Saws.

Write AERMOTOR CO., 2500 Twelfth St., Chicago

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The oil supply is renewed once a year.

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Milwaukee, Wis.

50 good Belgian Hares, and other large Rabbits, also some fox and Rabbit hounds, enclose stamp, W. E. Leeky, Holmesville, O.

## HUCKLEBERRY BASKETS

Our wax lined paper baskets are made tight—built especially for huckleberries. Prices— 200 postpaid, \$1.40 1000 by express, \$4.90 Special rates on larger quantities.

### Headquarters For Bee Supplies

Bee hives, sections, comb foundation, smokers, etc. Send for catalog. M. H. HUNT & SON, Box 525, Lansing, Mich.

Fistula & Poll Evil Approximately 10,000 cases are auccessfully treated each year with Fleming's Fistoform No experience necessary; easy and simple; just a lit-tie attention every fifth day. Price \$2.50 a bottle-your money refunded if Italia. Send for free color-of LEMING'S VEST-POCKET VETERIBARY ADVISER. Valuable for its information upon diseases of horses and cattle. 197 pages, 67 illustrations. Write tocay. Fleming Bros., Chemists vards, Chicago, ill.

The Ohio State Experiment Station has recently originated a new variety of Gladden Wheat. This wheat is a single plant selection from the Gypsy and outyields its parent besides having many other good outyields.

ROSEN RYE, a new variety originated by has been heavily outyielding almost all other varieties of winter rye. We also offer a moderate quantity of exceptionally pure Poole Wheat. Write for prices Wing Seed Co., Box 742, Mechanicsburg, O io.

Red Rock Seed Wheat Pedigreed Seed

100 bushels inspected Red Rock Wheat. Price fixed by Michigan Crop Improvement Association \$3.25 for 10 bushels \$3.50. Sond remittance to cover and sacks at 30c each or send your own sacks. Order now. Sample on request.

T. A. CHURCH, Bangor, Michigan.

#### CORN

\$1.45 to \$2.00 per bushel. If you buy in carloads or less send for samples. OARPENTER GRAIN COMPANY, Battle Creek, Michigan.

Pulverized lime rock for "sonr, soils. WE SELL YOU DIRECT. Shipment from our Muskegon. Mich. yard. Write for sample literature, analysis and price.

LAKE SHORE STONE COMPANY,
P. O. Box 175, Milwaukee, Wis.

#### POULTRY

Barron English 240 Egg Strain.

white Leghorns heavy winter layers. Large size and very strong and hardy. Bred to shell out eggs and do IT. Best days laying in winter 500 pullets 409 eggs on Jan. 24th. Can common Leghorn do as well. Tested and trapnested ten years. Order NOW breeding stock at our special summer prices. 3,000 choice pullets \$1.50 each, 1000 selected yearling hens at \$1.25 each egg record in pullet year of 200 eggs and over and 1000 selected breeding ckls, from 255 to 272 egg dams at \$1.25 each corder now your ckls, for Sept. delivery. Write us your want NOW and send for catalogue.

DEVRIES LEGHORN FARMS & HATCHERY Box 222 A. Zeeland, Mich.

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Bred-to-lay S. C. White Leghorn and Barred Rocks, Would advice ordering early. Price reasonable, Write us your wants. Sunnybrook Poultry Farms, Hillsdale, Mich.

Barred Rocks-EGGS FROM STRAIN with records to 280 eggs a year; \$2 per 15. Delivered by parcel post, prepaid. Circular free FRED ASTLING. Constantine, Mich.

BUFF LEGHORNS, 50 Choice hens and a few ceck-berels selling for \$1.50 each, this is half price. Dr.WILLIAM SMITH, - Petersburg, Mich.

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

Fowlers Buff Rocks Booking orders now at a \$2 for 15; \$4 for 30; \$5.50 for 50; \$8.00 for 100.

B. B. FOWLER.

Harstord, Mich.

#### IMPROVE YOUR POULTRY

My Bred-to-lay Young's strain S. C. White Leghorns are great money-makers. 15,000 strong, husky chicks for July delivery. Price reduced to \$9.50 a 100; and \$5 for 50, sent promptly by mail. Safe arrival and entire satisfaction guaranteed. Order direct. Free catalog. W. VAN APPLEDORN. R. 7, Holland, Mich.

Laybilt S. C. W. Leghorns large, great layers, pure white offered for short time only choice 2 year old hens \$1.00 each, yearlinghens \$1.25 each. Sweeks-old pullets \$1.00 each. EVERFRESH EGG FARM, Ionia, Mich.

M ammoth Pekin Ducks from best stock in America, M Eggs \$1.50 per 11. Rose Comb Brown Leghorns from Madison Square and Mich. & Ohio Fair winners. Eggs \$1.50 per 15. Mrs. Claudia Betts, Hillsdale, Mich.

Pine Crest White Orpingtons, hens and pullets \$3.00 cach, eggs special price \$5 per 16, utility \$12 per 100. MRS. WILLIS HOUGH, PINE OREST FARM, Royal Oak, Mich.

R. I. Red Chicks Red Chicks, Both Combs. Iso each for 25 or more, prepaid by parcel post. Last hatch July 24th.
INTERLAKES FARM, Box 39, Lawrence, Mich.

SILVER Golden & White Wyandottes. Four Golden Cockerels \$2.50 each. Eggs 15, \$2.50; 30, \$5 by P. Post prepaid. O. W. Browning, R. 2, Portland, Mich.

S. C. Brown Leghorns Excellent layers. Eggs 50 each prepaid Yearling hens \$1.25. Cockerels \$1. FLOYD ROBERTSON, R. I, Lexington, Indiana

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

#### DOGS

FOR SALE puppies Shepard and Scotch Coldigs. Price \$5.00 male or females. THOMAS STANFIELD, Box 127, Hillsdale, Mich.

Scoich Collie Pups For Sale. Pure bred stock, O.E. Hawkey, R. S. Ludington, Mich.

A IREDALE pups for sale. From registered stock, Fine watch dogs for poultry. At farmer's prices, R. G. KIRBY, R. 1,



#### BREEDERS' DIRECTORY.

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

CATTLE.

# Wildwood Farms

Breeders of Best Strains of **Aberdeen Angus Cattle** and Duroc Jersey Hogs

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

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

WOODCOTE ANGUS
TROJAN-ERICAS & BLACKBIRDS (BLACKCAPS)
only. The most fashionable strains of the breed,
Great care given to matings and pedigrees. Every animal BRED IN THE PURPLE. Breeders and feeders of many INTERNATIONAL WINNERS.
WOODCOTE STOCK FARM Ionia, Mich.

Cloverly Angus Good quality bulls of serviceable age and younger. Inspection invited.

Geo. Hathaway and Son, Ovid, Mich.

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

GUERNSEYS must reduce herd, so offer a few choice females of Glenwood breeding also bulls, all stock of A. B. breeding, herd tuberculin tested, T. V. HIOKS, Battle Creek, Mich.

Registered Guernseys Two choice heifer calves, \$300. One bull calf with above \$75: this bull calf is no relation to heifer calves.

J. M. WILLIAMS. - North Adams, Mich.

Guernssys 45 Registered head, all th tested. Nora's heads our hord, 19 of h. son of 1mp. May Rose King, heads our hord, 19 of his half siters sold averaging \$1850 each. His buil calves are booked ahead at reasonable prices. Avonded Stock Farm, Wayne, Mich.

For Sale Registered Guernsey bull calves May Rose breeding.
R. 2, Holland, Mich.

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

OAK Leaf Farm. Herd sire Lenawee Pontiae Cal-from A. R. O., cows and the above sire whose dam hold the milk and butter record in the state of Ind. 7 days milk 796.3, butter \$2.51-315 days milk 23782.3, but-E. H. GEARHART & SON, R. 4, Marcellus, Mich.

**CLUNY STOCK FARM** 

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

R. BRUCE McPHERSON. Howell, Mich.

## HOLSTEIN BUL

A strictly high class 29 lb. Holstein bull, Daisycrest King Princess, 228347, born January 27, 1917, is offered for sale. Sire, King Zerma Alcarta Pontiac, grandsire, King Segis Pontiac Alcarta, the \$50,000 bull; Dam, Princess Pauline Rufine 2nd. This yearling promises to be one of the finist quality bulls in the state. If you are interested, will you please write for description and photograph? Also other & younger bulls. Bred cows and helfers and calves from a herd of 50 high class Holsteins. We will send you photo sand descriptions which will present these animals accurately. If you want Holsteins, will you please write us Every animal fully guaranteed.

Bloomingdale Farms, Bloomingdale, Mich.

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

# Letters from Our Readers

MICHIGAN FARMER READERS:

We want you to make the fullest use of this page. It has already been instrumental in presenting some real live subjects for discussion. May we have a shot or bouquet from you. Remember, be brief, for a to-the-point-letter is most interesting.

Yours Sincerely,

THE MICHIGAN FARMER.

## National Board of Agriculture, Again Mr. Lillie's Reply to T. N. V.

this sort by legislation that would be is all that is necessary for it to do. what I would term going about it in a

legislation. inal article, what we need is a great, debts but there are multitudes of economic, where facts have been ascertained hold their crops for a decent price, and from sources that are unquestionable, there will be enough of them that will to say to the consuming world that it hold their crops so that this price sugcosts so much to produce a crop and gested by the National Chamber of Agthat the farmers are entitled to this riculture can be realized. There is one cost plus a profit. That is not a mat- :hing that the well-to-do farmer ought ter for legislation; that is a matter for to do and that is to sell his crop at the economic organization.

laid the foundation here which in my fair for the farmer to hold his crop for judgment, will win. This proposition more and force people to pay it. The organization, by any present farmers' ber of Agriculture ought to be a maxorganization, no element of politics is imum and a minimum price so far as to enter into it at all. It is simply and the farmer is concerned. The farmer purely a business proposition repre- must treat the consumer fair if he gets senting agriculture. chairmen who are going to be the rep- ing for is to get good, fair terms from resentative men of this organization the consumer.

er should have help through legisla- ties that really bind because they reption, that this matter should be put up resent the bread and butter interests to the state legislature and the na- of the farmer. When this organization tional congress. I was opposed to this is completed and these county agents HOW HE WOULD USE THOSE LIBand would be now. In fact, I don't have appointed the county chairmen in think it would be possible, neither do determining approximately the cost of I think it would be practical. If you production and this has all been auattempt to make special laws for the thorized and averaged for the whole farmer, other business interests will United States and the National Cham- otic American citizen and farmer. demand special laws and they would ber of Agriculture expresses its opinhave the right to do so. We cannot ion, based upon these actual facts, that have class legislation in this country, the cost of a certain crop was so much, neither do we want it. Let every that the farmers in order to have a class stand on its own merits. If you living profit ought to receive so much attempt to bring about anything of per unit—that is all there is to it, that

Some will say that agriculture is so direct way. Now, I have advocated broad that it cannot be controlled by that this proposition of determining an organization, that some people are approximately the cost of production "hard-up" financially and that they and insisting on selling for this cost must sell their crops as fast as they plus a profit is a proposition up to ag- produce them and at whatever the riculture itself. It is a business prop- middleman and the speculator chooses osition; it requires organization, not to offer them. We will admit that some farmers are in debt and that they As Mr. McBride stated in his orig- must cash in their crops and pay their agricultural organization farmers that are not in debt, that can cost plus profit figure. If there was a Market Commissioner McBride has shortage of any crop, it wouldn't be These county a fair deal, because all he is ask-

# Whither Are We Drifting?

HE war has developed new ideas Other business and industrial inter-

and ideals regarding social and ests are now making plans to meet afabandon these organizations when the by depending upon a number of scaterior and drift back to the old tered and more or less inefficient, one-make the big crowd that makes the methods of supporting several misfit man-controlled organizations to meet successful picnic.—Mrs. Edith M. Wagorganizations with more or less scat-vital problems that are sure to develop ar, Wayne County Lecturer. abandon these organizations when the by depending upon a number of scatorganizations with more or less scat- vital problems that are sure to develop tered interests and aims, or are we to when the war ends? Is it not possible hold the lines with more efficient ones and entirely practical to work out for meeting rural problems that are plans that will provide better transporsure to develop as soon as peace tation facilities for farm products, better transporsure to develop as soon as peace tation facilities for farm products, better roads so that motor-express lines the from her husband.

may be established to carry farm products to market and bring needed supplies to the farm, develop new systems of distributing and handling food products, provide legislation to enable farmers to drain their land for crop production, furnish laborers for the farms, enact laws to prevent the landgrabbers from holding large tracts of land for speculation and not production of food crops, provide means for financing the boys who come back from the trench life to begin farming on our cheap farming lands? These are only a few problems that must be solved before we can take our place among leading industries in America.

Some of these problems are not new AM pleased to know that the idea and really the foundation of the organ- ones; the majority of them have been of a National Chamber of Agricul- ization, are not going to be asked what before the people for years. So long ture is approved and I believe that political party they belong to, nor what as the farmers were without any the majority of farmers, if they would church they belong to, nor whether strong organization their weak and take the time to express themselves they belong to this or that fraternal scattered efforts brought no results. In would be in favor of this movement, organization. Their qualifications must the readjustment of social and eco-In last week's issue T. N. V. states be that they are bona fide farmers who nomic problems, the farmer must plan that I have changed my mind with re- produce crops from the soil and whose for more efficient representation to ingard to bringing about the desired re- business it is to sell these crops at a sure him a "place under the sun" in sults, that is, putting agriculture on a profit. And when we get such an or- the new world of democracy. He must profitable basis in a business way the ganization it is broader than any exist- be ably represented among the other same as other businesses, but I think ing organization, it is broad enough so industries, businesses and trades if he that our former correspondence that that every farmer in the state, every is to maintain his identity and secure he refers to was misunderstood. As I farmer in the nation can belong to it his just dues from the powers that conremember, the idea was that the farm- and they will be bound together by trol affairs in the coming readjustment of the world's business.

R. A. BAXTER, JR. Saranac Co.

## ERTY BONDS.

I just finished reading Mr. C. H. Addams' question of duty as a patri-

You will permit me to suggest that while bankers will loan to the extent of ninety per cent on Liberty Bonds, would it not be more patriotic to borrow several hundred dollars at six per cent in view of the fact that Uncle Sam is going to pay you four and a quarter per cent on what you have loaned him?

In other words, Mr. Addams, it will cost you the small sum of \$3.50 per year, the difference in interest, to hold these bonds-thus by lending your credit in this way you will have supported your government which, I am sure, will be a great joy of appreciation to you later.

While all persons holding these government securities are supposed to hold them, if possible, I might say this about the War Savings Stamps: I think provision has been made whereby, in the event of emergency one can dispose of war stamps to the postoffice by giving the postmaster ten days' notice. Uncle Sam will cash these stamps in such cases at the price you paid for them, plus three per cent simple interest.

Let it not be said that the farmer is not to be fostered by any fraternal cost authorized by the National Chamis not doing his fair share in every way .- Arthur F. Carl, St. Joe County.

#### A BIG GRANGE RALLY.

The Six-County Grange Rally to be held at Belleville, Wayne county, Saturday, July 27. Sports of all kinds and drills from several county teams will be held in the forenoon. A basket picnic dinner will follow. The speakers for the afternoon program will be Ohio State Master L. J. Taber, and Michigan State Master J. C. Ketcham. A good local program will be given by members from each of the counties. members from each of the counties. cooperative organizations in rural communities. The wonderful results their lines to meet the problems that accomplished by war organizations affords proof sufficient that country people are capable of team work when members. Are the farmers of America
the occasion demands it. Are we to going to be found asleep at the switch abandon these organizations when the by depending upon a number of scat-

# eterinary

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

Warts.—I have a heifer troubled with warts on head and neck. Some of them are growing very large and I would like to know what can be done to destroy them. J. U., Pigeon, Mich.—The warts that have necks should be cut out and apply one part salicylic acid and two parts grain alcohol to flat ones every day or two. Apply to wounds one part powdered alum, two parts oxide of zinc and three parts boric acid every day or two.

Barb Wire Cut.—About nine weeks ago one of my horses while in pasture lot rolled, became entangled in a barb wire fence, cutting his leg on fore part of hock. I treated it with corona wool of hock. I treated it with corona wool fat compound according to the directions. The wound closed fairly well with a fleshy bunch about the size of a man's fist. The hock joint also remains thickened. This horse is seemingly better when worked, than if allowed to stand idle. L. V. S., Butman, Mich.—Dissolve ½ oz. permanganate of potash in six ounces of clean boiled water and paint wound three times a day. a day.

Surfeit.—I, have a five-year-old mare that at times has lumps appear all over body, some as large as a man's hand. These bunches seem to appear hand. These bunches seem to appear and in about 36 to 48 hours disappear. When in this condition do you advise me to work her, and what line of treatment do you recommend? E. R., Henderson, Mich.—Give her 30 grs. of potassium iodide, 1 oz. of bicarbonate of soda and 1 oz. of tincture gentian at a dose in feed two or three times a day. Feed her grain and grass. If her bowels are inclined to be costive, either give her one quart of raw line seed-oil as a cathartic or compel her to live on grass exclusively for two or three days. three days.

Infected Udder.—I have Jersey cow whose bag seems to be more or less congested and swollen. Part of time congested and swollen. Part of time she will milk out clean, part of time she gives stringy milk. I bought her from a man who has sandy land, my farm is clay soil. I am told that this change of soil is causing all this udder trouble. Lately I have reduced her grain ration, thinking that it might help her. C. H. Y., Alto, Mich.—Give her a dessertspoonful of powdered nitrate of potash at a dose in feed or drinking water once daily. Apply one part fluid extract of poke root and eight parts olive oil to congested portion of udder once or twice a day. Are you sure she does not bruise her bag?

Milk Low in Butter-fat.—We have two fresh cows, good Durham stock, that have always been good milkers. These cows have been well wintered and are in the best of pasture, with running spring water and look fine. We get a fair flow of milk, but practically no cream; it has been so for the past two months and we are at a loss to know what to do. Can you advise? E. N., Rockford, Mich.—The writer would suggest that you feed your cows some grain twice daily; however, it is well understood that the quality of milk is not much enriched however, it is well understood that the quality of milk is not much enriched in butter-fat by the cows' feed. Giving these well cows drugs is perhaps bad practice, but a change of feed would benefit them and it is possible that their milk should be cooled more quickly after milking, and possibly your milk house is rather cool. I suggest that you consult a neighbor who is an experienced dairyman and butter-maker and have him inspect your premises. premises.

Feeding an Orphan Colt.—What can I do to build up a young colt that I have had to raise by hand. Am now giving her two and a half pints of whole milk every three hours, also feeding some hay and wheat bran. Her hind feet tip up and she walks on fetlock. She is also pot bellied, is very thin and does not straighten up on her limbs as she ought to. I have given her castor oil once a week. Her appetite is good and her bowels act normally. Mrs. P. L., Chelsea, Mich.—You failed to state age of colt; however, the writer presumes her to be two or three months old. She should be fed rich cows' milk, adding some sugar and at least one-third part clean water. The feeding utensils should be kept exceedingly clean and you should also feed her some ground oats, or oat meal and bran and feed her grass or green food in addition to well-cured mixed hay. As a rule orphan colts do not thrive well until they are three or four months old, unless they are fed with care. Feeding an Orphan Colt.-What can

# 50 Choice Durocs Sell Aug. 9 At Brookwater Farm, Aug. 9

An opportunity to buy sows bred for fall farrow, and spring pigs of both sexes. This offering is closely related to our show herd of last year which won more prizes than any other Duroc herd in the United States. We extend a cordial invitation to all Michigan farmers and breeders to attend the sale. You are welcome whether you contemplate buying or not. Send for illustrated catalog and make your plans to spend Aug. 9 at

Brookwater Farm, Ann Arbor, Mich. R. 7

Aug. 9 J. Bruce Henderson, Manager Herbert W. Mumford, Owner

Aug. 9

CATTLE

# op - Notch"

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.

#### I Always Have Holsteins To Sell

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

Bill

### Winn--Wood Herd Registered Holsteins

Sire in Service Flint Maplecrest Boy

Who is bred for real production his sire Maplecrest Korndyke Hengerveld is one of the best bred long distance bulls in the world. He or his dam are brother or sister to six cowe with records above 1,200 lbs. of butter in, one year and ten more above 1,000 lbs. or year. Flint Maplecrest Boys' Dam is Gluck Vassar Bell 30.57 lbs. of butter in 7 day. 121 lbs. in 30 days. Butter fattest 5.27, Isleher a reason why Flint Maplecrest Boy is not one of Michigans greatest young sires. None of his females are for sale until after we test them. But we have 100 f his bull calves from 2 to 9 months old, with A. it. O. dams which we nowlfolfer for sale uptil such that the weak of the same shift we nowlfolfer for sale uptil such that the weak of the same shift we nowlfolfer for sale uptil such that the weak of the same shift we nowlfolfer for sale uptil such that he was the kind of a bull you want.

JOHN H. WINN, Inc.
Roscommon, Mich.

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

# A Few Fine Bulls For Sale

Bigelows Holstein Farms, Breedsville, Mich.

\$50 Liberty Bond gets 1 mo. old grandson of Pontiac Maid 301.5 lb. Other granddam sister to grandsire of 42 lb. 4 yr. Herd free tuber. Apr. adv. to females. Terms. M. L. McLaulin, Redford, 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 hord?

Pontiac State Hospital, Pontiac, Mich.

8,040 Lbs. MORE MILK Per COW Per YEAR is what the granddaughters of a Pure HOLSTEIN BULL



yielded over the production of their scrub granddams.
You too can make more inchey with
a pure bred Holstein Bull. Let us
show you, Booklets free. The Holstein-Friesian Association of America, Box 164, Brattleboro, Vt.

## The Traverse Herd Great Values In Bulls

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

TRAVERSE CITY STATE HOSPITAL, Traverse City, Michigan.

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 Pontiac Aaggie Korndyke, with six daughters above 1000 pounds of butter in one year.

Peaceland Stock Farm, Inree Rivers, Mich. G. L. Brody, Owner Port Huron, Mich. Charles Peters, Herdsman

As I Am of Draft Age AS I AH DISTRICT AND A CONTROL AND A CONTROL

Peg. Holstein Bulls, \$50, \$75 and \$150; from four Rumonths to serviceable age, one is of a breeding with a 23 lb. average in 7 days, will take Liberty Bonds. 69 No. 1 Shropshire brood ewes; full blood Oxford down ram lamb. Frank Staffen, Howard City, Mich, Holstein 5 weeks old, beautifully marked, \$25 each, crated for shipment anywhere. Buy only the best, EDGEWOOD FARMS. Whitewater, Wis.

Holsteins: Buil calf born Oct. 6. A nice individual well grown in good condition. His seven nearest dams average butter 7 days 23.36 lbs. milk 533 lbs. Dams record 18 lbs at 2 ½ yrs. W.B. Reader, Howell, Mich.

\$100 Registered Holstein bull calf 6 months old ing, also four year old cow soon fresh.
RIVERVIEW FARM, Vassar, Mich.

For Sale—Registered Holstein Bull 2% yrs.old from a 40 lbs. sire and a good A. R. O. helfer for price and pedigroe write Wm. GRIFFIN, R. 5. Howell, Mich.

Maple Lane R. of M. Jersey Herd. For sale one fon year-old cow, also bull calves and helfer calves sired by a grandson of the Pois 99th of Hood Farm. IRVIN FOX, R. 3, Allegan, 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 tuberculline tested, when looking for a sire to head your herd, get a Majesty. Alvin Baldwin, Capac, Mich.

FOR SALE several Jersey Bulls and a few calves.

Grass Lake, Mich.

For Sale Registered Jersey Cattle

For Sale Jersey Bull

Goldie's Foxhall No. 161885. Dropped March 22, 1917. Solid color, black tongue & switch. A fine individual large of his age, will sell cheap. Also a young cow & several bred helfors, all of collection. NEWMAN'S STOOK FARM, R. I. Marlette, Mich.

TERSEY bull and bull calves for sale from R of M, cows, also helfers and cows of all ages.
C. B. WEHNER, R. 6, 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.

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

# HEREFORDS

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

ALLEN BROS., PAW PAW, MICH.

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

Shorthorns Scotch and Scotch Topped animals of both sex for sale. Prices reasonable. GEO. D. DOSTER, Doster, 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. O. depot, I hour from Toledo, Ohio. Automobile meets all trains. Write

BIDWELL STOCK FARM,

#### Richland Farms Shorthorns

IMP, Lorne in Service. Grand Champion Shorthorn Bull of Mich. Weoffer for sale a choice collection of young bulls by some of the leading sires of the breed. You cannot afford not to own one of these bulls at the prices we are asking for them. We invite correspondence and inspection.

C. H. PRESCOTT & SONS,
Farms at Prescott, Mich. Office at Tawas, City, Mich.

We maintain one of Michigan's good herds of Scotch and Scotch Topped cattle. They are well bred, prop-erly handled and price reason, ble. Come and see; we like to show them. P. P. POPE,

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

SON of Harthorth Welfare heads our herd of milkcows, young bulls ready for sale and service, write us Liddel Bros., R. 2. Clinton, Mich., Macon Phone.

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

J. B. HUMMEL, Mason, Mich.

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

Shorthorn Cattle of both Sex for Sale

For Sale Shorthorns of Quality Scotch and Scotch Topped descendents of Archers Hope, Avondale, Maxwalton Sulton and White Hall Sulton by the Oscola Co. Shorthorn Breeders Ass. JOHN SCHMIDT, Sec. Reed City, Mich.

Grand Traverse Shorthorn Asso. Reg. stock for M. E. DUOKLES, Sec. Traverse City, Mich. Shorthorn Bull Calves 2 to 8 mos. old reg. at IRVIN DOAN. Croswell, Mich. Croswell, Mich. Red Bull Calf 7 mos. old also two J. E. TANSWELL, Mason, Mich.

Registered and grade Guernseys. One registered bull 9 mos. old. one registered helfer 18 mos. old. 2 high grade heifers 15 and 3% mo, old. FRED ROBBINS, Ypsilanti, Mich. Cranes Stop, Saline Car Line.

17 - 81

Hereford for sale 4 bulls: 1 three years, 1 one year and 2 six mos. old.
REED SCHULTZ, - Homer, Mich.

#### HOGS

Registered Berkshire gilts and sows for fall farrow.
CHASE STOCK FARM, R. 1. Marlette, Mich.

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

Duroc Jerseys & Hampshires
We offer a number of fine young spring boar and
sow pigs both Duroc Jerseys and Hamspires, from
particularly well bred stock.
Write to us for description and prices. Each animal is guaranteed.

Bloomingdale Farms, Bloomingdale, Mich.

Duroes. 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, Balley, Mich,

#### 50 Duroc Sows and Gilts

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

# DUROC JERSEYS EYDENBERK, . . . Wayland, Mich.

Duroc fall boars stred by Orimson Critic T., Satisfaction and Brookwater Principal, priced right, Bredsows all sold. M. C. TAYLOR, Milan, Mich.

Choice Duroc Jersey Gilts For Sale.

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

Duroc Jersey's—Fall boars of the large heavy boned type, Gilts bred to Junior Champion boar for June farrow, also Spring pigs pairs not akin. F. J. DRODT, R. I. Monroe, Mich.

Duroc Jerseys for sale. Bred sows & spring plus both chas, Bray, okemos, Mich.

Duroc Jarseys spring pigs for sale. Pairs and tries not akin. Breeding and prices on request.

J. D. CRANE & SON, Plainwell, Mich.

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



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from a great herd in every community where I am not already rep-sented by these fine early developers—ready for market at my other old. Write for my plan— More Money from Hogs.

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

Crandell's Prize Hogs,

Cass City, Mich.

BRED GILTS and SERVICEABLE BOARS

C. J. CARL JEWETT, Mason, Mich.

L AST fall gilts all sold, have a good lot of tast spring L pigs from 3 sires good growthy stock. Farm ½ mile west of depot, Citicens Phone 124.
OTTO B. SCHULZE, Nashville, Mich.

OTTO B. SCHULZE, Nashville, Mich.

O. I. C.'s all sold except some fall gilts. Order
O. J. THOMPSON, Rockford, Mich. O. I. C.'S Big type serviceable boars. Spring far-rowed boar pigs. Bred gilts to farrow July and Aug. G. P. ANDREWS, Dansville, Mich.

For Sale Bred gilts and spring pigs of Mar. and F. C. BURGESS, R. 3, Mason, Mich.

O. I. C.'s a few choice Apr. and May pigs either sex and 4 reg. Holstein heifers.
CLOVER LEAF STOCK FARM, Monroe, Mich.

#### TYPE POLAND CHINAS One extra

Bred Gilts and Spring Pigs. Or well bred Holstein Bull Calf HILLCREST FARM,

KALAMAZOO, MICH.

A 500 lb. Gilt just one. We sold Smooth Jumbo to head Model Farm herd, Lansing, Mich. watch his smoke: This gilt is bred to him for Aug. farrow "Liberty Bell" is the best gilt in Michigan you can buy her for just \$100. Bell phone.

J. C. BUTLIFR, Portland, Mich.

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

FOR SALE 58 choice Big type P. C. don King No. 294813 herd Boar, CHAS. STORMS & SON.

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

L. S. P. C. all sold out, except the largest gilt raised last year, bred for June farrow. H.O. SWARTZ, Shoolcraft, Mich. Large type P. C. Some choice Sept. gilts ready to bred for Aug. and Sept. farrow. Wm. J. CLARKE, R. 7, Mason, Mich.

Wm. J. CLARKE, R. 7, Mason, Mich.

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

Pig Type Poland Chinas. Spring pigs for sale.

Healthy and growthy. From large litters. Prices right.

L. W. Barnes and Son, Byron, Mich.

Additional Stock Ads. on Page 83



SECOND EDITION.

The markets in this edition were revised and corrected on Thursday afternoon, July 25.

#### WHEAT.

Farmers are again showing their patriotic spirit by marketing wheat in unusually liberal quantities where threshing has started. In the souththreshing has started. In the south-west receipts thus far this year have exceeded all previous records for the corresponding period in other years. With the practical removal of maxi-mum fixed prices by the government, wheat quotations in the various mar-kets for the new crop are ruling from none to six cents above the minimum government price. For instance in Chicago where No. 1 red has a fixed price of \$2.26 per bushel, that grade sold early this week from \$2.26@2.30. Quotations at Detroit are about one cent above the government price. One year ago the local quotation for No. 2 red was \$2.45 per bushel on this market. Present prices here are: Present prices here are:

No.	2	red .								\$2.24
No.	2	mixe	d							2.22
No.	2	white								

week. Heavy receipts and the satisfactory development of the new crop factory development of the new crop were factors in changing the prices. The visible supply of North America decreased 659,000 bushels last week to 12,104,000 bushels. The situation in England is unchanged with a moderate demand from the mills. Shipments from this country are in fair volume and grades suitable for export are meeting a firm demand. There have been no shipments from Argentine for been no shipments from Argentine for two weeks. Exports from North America since July 1 total 1,521,000 bushels against 2,240,000 bushels for the corresponding period a year ago. On this date in 1917 they were paying \$2.27 per bushel for No. 3 corn at De-troit. Present level with a corn at De-

Tre T	10	Dent I		<i>&gt;</i> (C)	υÆ	ы	Τ,	6	9	Э.	 a.	10.	
No.	3	yellow	7									\$1.70	
No.	3	yellow	1.									1.80	
No.	4	yellow	7.									1.70	
No.	5	yellow	7 .									1.50	
No.	6	yellow	7 .						:			1.40	

lows: No. 2 yellow now being quoted at \$1.72@1.75; No. 3 yellow \$1.66@1.70; August corn \$1.55\(\frac{1}{4}\); September \$1.56\(\frac{1}{4}\). Values in Chicago are higher as fol-

#### OATS.

Trading in oats has been on a more liberal scale the past week and the feeling somewhat unsettled, with prices changing. Reports indicate that the crop is less promising than a fortnight ago. Lack of moisture will cause a shortage in some regions. New oats are beginning to arrive in the Ohio valley. The visible supply for the

Star	nd	ard								.79	1/2	
		white										
		white										
		7. 7.	 _	_								

beans there range a little lower, with choice to fancy hand-picked quoted at follows:

\$11@11.50, and poor stock generally ignored by the trade. Red kidneys at \$9.50@11.50; California white beans bringing \$13.

No. 1 timothy ......\$24.00@24.50
No. 1 light mixed ..... 20.50@21.50
No. 1 light clover ..... 18.50@19.50
No. 1 clover ...... 17.50@18.50

Receipts of hay are small and the demand is firm. Prices here are steady with last week as follows:

Ith last week as lundy	Y D .
No. 1 timothy	\$21.50@22.00
Standard	20.50@21.00
Light mixed	20.50@21.00
No. 1 mixed	17.00@18.00
No. 1 clover	15.00@16.00

bringing top prices. Poor grades are advantage just now

ALO II D	
No. 1 timothy	\$24.00@24.50
No. 1 light mixed	20.50@21.50
No. 1 light clover	
No. 1 clover	

#### POTATOES.

The new crop from southern points is now moving in more liberal volume, and prices are somewhat easier. Reports indicate that Michigan potatoes, and indicate that Michigan potatoes, and included the court plant of folders. Light mixed ...... 20.50@21.00
No. 1 mixed ...... 17.00@18.00
No. 1 clover ..... 15.00@16.00
Pittsburgh.—Good hay is scarce and distributions are suffering somewhat for lack of moisture. Late plantings are developing well, although rains would be of

# Live Stock Market Service

#### Reports for Thursday, July 25th BUFFALO. DETROIT

#### CHICAGO.

Cattle.
Receipts 16,000. Good grades are strong; others slow and lower.
Good choice prime \$17@18.35; common and medium butchers \$10.75@17; heifers \$7.50@14.25; cows \$7.50@14; bologna bulls \$8.25@12.75; canners and cutters \$6.25@7.50; good stockers and feeders \$10.50@13; common and medium do \$8@10.50.

Hogs.

Receipts 28,000. Market 15@25c lower than yesterday. Tops \$19.10; bulk of sales \$17.90@18.90; heavy at \$18.60@18.80; mixed and light \$18.70@18.90; packers' hogs \$17.60@18; medium and heavy \$17.75@18.50; light bacon hogs \$18.65@19.10; pigs, good to choice \$17.25@18; roughs \$17.25@17.50.

#### Sheep and Lambs.

Receipts 10,000. Market is steady. Choice shorn natives \$18.75; choice to prime lambs \$18.75@19.25; medium and good \$17.50@18.75; culls \$12@15; medium and good and choice feeders \$15.50@16.50; choice yearlings \$16@16.50; medium and good yearlings \$14 @16.25; wethers, medium and good at \$12.25@14.25.

Cattle. Receipts 2,763. Good fat steers are steady; all grades of cow stuff is 50c lower than Monday. Others dull at

Wednesday's prices.			
Best heavy steers\$	14.00@	16 50	
Best hdy wt bu steers\$	10.000	11 00	
Mixed steers and heifers	8.50@	9.25	
Handy light butchers	8.00@		
Light butchers	7.25@		
Best cows	8.50@		
Butcher cows	7.50@	8.00	
Cutters	6.75@	7.00	
Canners	6.00@	6.50	
Best heavy bulls	8.50@	9.00	
Dologna bulls	8.00@	8.50	
Stock bulls	7.50@	7.75	
reeders	9.00@1	10.50	
Stockers	7.50@	8.50	
Milkers and springers	60@	1.25	

## Veal Calves. Receipts 1,035. Market very dull and 50c lower than Wednesday. Best grades \$15.75@16.25; others \$8@14.

# Sheep and Lambs.

# Hogs.

Receipts 1,755. Market steady to 10c lower than Wednesday.
Pigs and light weights. \$ 19.15
Mixed grades ...... 18.75@19.00

# Reports for Wednsday, July 24th

#### BUFFALO. Cattle.

RYE.

RYE.

ers \$10@11; best fat cows \$11@11.50; butcher cows \$8@8.50; cutters \$7.50@8; canners \$60@7; fancy bulls \$11@8 shows a decrease of 10,000 bushels for the week. New rye of No. 2 grade sold in Chicago at \$1.78 this week, while the Detroit price for the same grade is \$1.70.

then. Butcher stock is steady or lower this week, according to the quality, grass lots being on the down grade. Cows and heifers are salable at \$7.60@ 15, canning cows and cutters bringing \$6.50@17.50 and bulls \$7.50@13. Prime veal calves bring \$17@17.50, and stockers and feeders are having a slow sale at \$8@13, few selling above \$11.50.

#### Hogs.

making 30,000 for three days, comparing with 43,890 for the same time last week. Smaller offerings are making a better market, the best native lambs selling today at \$18.75, an advance of BEANS.

Receipts today are about 12,000 head and prices show an advance here and at some of the up-state points. The same days last week. The market is steady, with the best corn-fed cattle a per cwt for cash shipments. At Chicago there is a slightly steadier tone, with western offerings coming in fair yesterday at \$18.35. A year ago the volume. Quotations for Michigan pea

#### BUTTER.

A good grades of demand exists for most butter. Prices are about butter. grades of butter. Prices are about steady in the majority of the markets. Detroit quotations are firm at 43@43½c for fresh creamery extras, and 42½ for do firsts. Chicago market is steady with creameries ranging from 38½@43½c. New York prices are 43½@46c, and western creameries are bringing 45c in Philadelphia.

#### CHEESE.

Production is decreasing, while the demand continues active. Local prices are firm to higher, with flats quoted at 23½@25½c for new and 26c for old. In New York state fresh specials are selling at 25½c and do average run at 25@25½c. The Philadelphia trade is firm with full milk offerings bringing 24½@25¾c. The Chicago trade is strong with receipts in smaller volume. strong with receipts in smaller volume and the demand from all sources very active. Daisies, double, have advanced to 24¼ @24¾ c, and do single 24½ @25c, while Young Americas bring 24¾ @25c.

#### EGGS.

The outlet for eggs is very good and of such volume as to attract stock that has been in storage. Prices show a fractional advance in Detroit, with the candled firsts in new cases from Michigan points at 40½ @41c. The Chicago market is higher with first bringing 38 @38½c and ordinary firsts 35½@ @38½c, and ordinary firsts 35½@36½c. An irregular market obtains in New York, with western whites bringing 50@52c.

#### WOOL

On the opposite page of this issue is an article giving an explanation of wool prices by Prof. Brown, of the M. A. C., who is an advisory member of the Wool Division of the War Industries Board. In the event that any of our readers should wish to ship their wool to an accredited dealer in Chicago, Detroit or Boston, a list can be obtained by addressing this office.

#### DETROIT CITY MARKET

The volume of the trading at the Eastern Market is increasing each week. Prices are being fairly well maintained. New potatoes are now selling at \$1.30@1.90 per bushel; tomatoes \$6; green peppers \$3; large cucumbers \$3; cabbage 75c; turnips \$1; lettuce 50c; sweet corn \$2 per 10-doz. bag; cauliflower \$2 per bushel; raspberries \$10.50 per bushel; eggs 55c; hay, old \$24; new \$18@21.

#### GRAND RAPIDS

The drouth in this section of the state is severe and potatoes and other rops suffer. Early home grown potatoes are bringing \$1.50@2 on the city market. Raspberries are nearly gone and are worth around \$4 per crate. Eggs are quoted at 36@38c. Grain prices are as follows: Wheat \$2.07; oats 80c; corn \$1.70; rye \$1.50; beans \$7.50. \$7.50.

A fresh high record price for beef steers was made in Chicago a few days ago by the sale of 51 head of prime lowa fed cattle which averaged 1,631 pounds at \$18.10. A year ago the best sold at \$14.15, up to that time the highest price ever paid on the open market while the the sale of 51 head of prime lower paid on the open market while the terms of 11.00 highest price ever paid on the open market while the terms of 11.00 highest price are paid on the open market while the terms of 11.00 highest price while the term

grade is \$1.70.

BARLEY.

New barley is now offered in Chicago and some sold at \$1.15, it not being sultable for milling purposes. Millers want good grades and are buying damage in some sections of Michigan from a disease called "stripe."

BEANS.

There is the comparing with 87,306 and some sections of Michigan from a disease called "stripe."

See in the comparing with 87,306 and on the open was \$11.30 two opens ago and \$7.35 in July, 1913.

See ing sultable for milling purposes. Millers want good grades and are buying damage in some sections of Michigan from a disease called "stripe."

See in the comparing with 87,306 and says last week. Prices and gays last week. Prices and solidation to pean and spiral last spiral light bacon grades, while pigs sell at \$16.750 and pounds in western stocks of provisions during June, yet the holdings on the first of July amounted to 53,000,000 pounds more than a year earlier and to 114,000,000 pounds more than two

# An Explanation of Wool Prices

Prof. George A. Brown, of M. A. C., an advisory member of the Federal Wool Board, sends us the following letter in answer to questions asked by one of our readers.

ty-seven cents, the bulk of it being ent sections of the country grade and sold for sixty-five cents. While it about what they will scour and the might appear from the prices which prices that have been offered for the the government is paying for scoured wools in different sections are based wool that this wool should bring more on the average of all the wools comthan this, it is well to remember that ing from that part of the country. It their prices are for the scoured wool stands to reason that some have much delivered at the seaboard points where better wool and others much poorer. it is manufactured into clothing and from the government price which is on cially good quality of wool and it has the scoured basis we must deduct the been well cared for and handled it shrinkage of the wool which ranges would be advisable for you to consign from forty to sixty-five per cent of the it to some one of the licensed dealers fleece weight. Thus with scoured wool and have them give you a scouring bringing \$1.40 when sold to the gov- test and they would then pay you evernment the following example would ery cent that the wool is worth as indicate about what it would be worth shown by actual trial and at a price

grade as three-eighths staple for wool from this part of the country. which the government is paying \$1.40 must be deducted the freight from scouring basis. your shipping point to the Atlantic seamission allowed the local dealer in as though a carload was being shipped. country districts.

three-eighths blood or does not shrink ence. less than fifty per cent. If you had a above, or again it might shrink less in any way possible. than fifty per cent, making it worth

somewhat more.

HE bulk of native fleece wool But from long experience in handhas been appraised by approved ling wool the large dealers know just fifteen-cent zone freight rate and you

If you feel that you have an espebased on the scouring test of your Many of our best medium wools will wool rather than on the average of the

when it is scoured. Such wool would dustries Board recommends that whershrink from forty-seven to fifty-one per ever possible farmers pool their wool, cent. Thus for one hundred pounds of obtaining a carload if possible and conwool in the grease the farmer would sign it to some of the approved deal- organization and the buyer, whereby get fifty pounds of scoured wool worth ers in the distributing centers, thus the agent will supervise and direct the at \$1.40 per pound, \$70 or a value for eliminating the one and one-half cents the grease wool of seventy cents per per pound profit allowed local dealers pound. From the above price of sev- and obtaining every cent that their enty cents per pound in the grease wool is worth as determined on the

board, interest on money used for ers in your section together and make handling the wool and making an ad- up a carioad it would be possible for Detroit area, but over the entire state. vance on it, loss in weight on account you to ship your wool direct to some of moisture and shrinkage, and the approved dealer. You would, however, one and one-half cents per pound com- have to pay a higher freight rate than

From this you will see that the price should make arrangements for its shipof sixty-five cents per pound is per- ment and for getting an advance on haps not far from correct, provided the price of the wool by taking the your wool is not graded higher than matter up with them by correspond-

If you desire to organize a group of fine quality of wool it might perhaps farmers in your section of the state grade better than three-eighths, in for the shipment of your wool, Mr. which case it would be worth consid- Freeman, the extension man in sheep erably more than the figures given husbandry, will be glad to assist you

dealers at from sixty-five to six- about what the wools from the differ-

The Wool Division of the War In-

If it is too late to get the wool grow-

Before shipping your wool you

G. A. BROWN, Asso. Prof. of Animal Husbandry.

## A Message to Our Milk Producers By R. C. REED,

Field Secretary of Michigan Milk Producers

to take action upon the future cents. of this industry.

plus a ten per cent profit.

We Must Respect Our Contracts.

No one deplores the erratic ways of he gains or loses by so doing. some of the producers more than your field secretary. It has come to be conceded by all good thinking men that, buyer without consulting the agent.

Don't Change.

extensively than a year ago, but their materially increased weight vastly increases the aggregate production of fresh and award how products. be steady to our purpose and hold to buyers have not just as great grievevery agreement we make. We must ances as have you. not allow any petty grievances or Don't think that by changing you imaginary evil to swerve us from the will relieve yourself of the annoyances gation, and in order to obtain the bus- attempt to change you weaken your- en years. iness principle for which we contend self in the estimation of your buyer the cost plus a profit—we must not sell. More than this—the Detroit paturn aside from our agreement.

This is the time when buyers will ings of the Detroit Commission. offer an inducement of a few cents over the commission price to get more When we compare the prices receivmilk. After they have induced produc- ed by the milk producers of the Detroit ers to violate their contract then the area with those of other cities, we are word comes back to me that they have led ot feel that we have been very for-

HIS is the time for our people been able to buy our men for a few

Buyers over Michigan have our con-Unusual conditions confront us. The tracts. We have sold our patron's progovernment has fixed, as a basis upon duct and if we fail to deliver we are cattle weighing 1,300 pounds and over, which to place every commercial ac- liable to suit and damages. Don't let tivity, a cost plus a ten per cent profit. anyone persuade you that these agree-The officers of the Michigan Milk Pro- ments do not carry with them a damducers' Association have been conser- age consideration in case of failure to vative, yet we must come eventually to their performance. Not only this, but a basis where we will receive the cost we are trying to establish in the minds of all good people that the milk producer will honor his contract whether

-of a price for our product that equals and also of the one to whom you would trons should be satisfied with the rul-

Prices in Other Cities.

tunate in the decisions of the Detroit Area Milk Commission. quoted in other cities are laid down at the city receiving station (mostly). The price quoted in the Detroit area is in the fifteen-cent zone. Add to the \$2.56, the Detroit price on milk, the have \$2.71 in Detroit as compared with \$2.47 in Philadelphia, and \$2.30 in-Chicago.

Commission Meeting.

Two very important problems will come up in the near future before the next Commission meeting. One is concerning the gallon shippers' problem. These men are making strong contention concerning a better price than the station shippers. We think that they should receive, probably, ten cents per hundred pounds more than the station shippers.

The Test Problem.

The test problem is before us. We now have men sent by Prof. Anderson to devote their time to the Detroit area. These men are paid by the college, and the buyer remits to the college. These men are under no obligation to the buyer—only being told where to make the test. Whether this will be further extended or whether another agreement between the milk tester, are problems for immediate consideration.

President Hull in Action.

President Hull is giving quite, a portion of his time to the work in the Detroit area. The field secretary's work is calling him, not only to the

Last week's meetings were held at Eureka, Goodrich, and Fenton. This week meetings will be held at Cadillac, Traverse City, Manistee and Honor. Many buying centers in the state are urging the state association to become the selling agent for their product. It is only because of the lack of available help that we are not entering into a broader field.

#### LIVE STOCK NEWS.

Pork has been selling in the Chicago market about \$5 a barrel higher than a year ago, with similar advances shown in lard and shortribs, yet consumption far exceeds all past records, the food administration bureau being an enormous buyer. During a recent week the bureau purchased in the Chicako market 100,000,000 pounds of bacon for delivery up to the end of the year. Recently the south has become a liberal buyer of the cheaper cuts of cured hog meats, prices showing a larger discount below short rigs than usual.

While fat-cattle have been selling at the highest prices on record, grassy offerings are too abundant and show declines in prices. The time has arrived when it seems best to market place such with feeding steers weighing 950 to 1,050 pounds, as they can be fed corn on grass and made into good beeves in ninety to 120 days. Such cattle are well suited for army and home wants. Unfortunately, the packers are buying up most of such feeders, and not many are going to feeding districts which weigh over 900 pounds.

Not only are hogs marketed far more in order to do the best work, we must Don't think that the patrons of other weeks saw the hogs marketed in Chiing seven pounds heavier than a year ago and four pounds heavier than two years ago, their average weight being the same as the general average for absolute discharge of our every obli- incident to the business. When you corresponding weeks of the past sev-

HORSES

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 Two Percheron stallions two Percheron mares Liberty Bonds accepted.

E. J. ALDRICH. Tekonsha, Mich.

One pair of Registered Percheron Mares right.

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

Order your silo now. Then you will be sure of getting it in time for filling.

to choose from -Saginaw Steel-Built Saginaw Leader Liberty Silo Write us for catalog.

The McClure Co. Saginaw, Mich. 13 Gairo, Ill.



A FORD CHASSIS and \$148 gives you a real Tractor Direct

from the Factory One man (or woman) with a UNIVERSAL can plow, mow, harvest, cultivate or do any other farm or road work that he could do with 4 big horses, and in most cases as much as a \$1000 tractor and two men could do. Send for bulletin C. ch as a \$1000 tractor bulletin C.

An experienced man desires position as superintendent or forman on stock-farm. Family, wife, address S. M. W. Box 273, Chelsea, Mich.

# Growers, Shippers Co-Operative Associations

We ask you to get in touch with us by letter or wire at once and we will as-sist you in marketing your shipments in an intelligent and business like manner. Our Specialty is Carlots. Small fruits wanted right now. Leading Distributor for Michigan.

National Growers & Shippers Sales Co., Inc., Detroit, Mich. Salesrooms Jefferson Ave., at Mich. Central Produce Yards.

Mr. POULTRY FARMER: We make a specialty of White Hennery Eggs and have created a profitable market for your eggs the year around. We pay the highest premium for your Hennery Whites—We remit same day shipments arrive. Ship Often—Ship by Express

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

We are paying good premiums for eggs not over four or five days old, direct shipments from the farm. Ship to us or write for particulars.

AMERICAN BUTTER & CHEESE COMPANY, Detroit, Mich.

HAY Ship To The Old Reliable House Daniel McCaffrey's Sons, 623-025 Wabash Bldg.. Pittshargh Ps.

HOGS

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

Poland China Swine of all ages R. W. MILLS, Saline, Mich. Big type P. C. spring pigs of the best producers in the west, priced for July at \$25 to \$35. Guaranteed to please. C. E. GARNANT. Eaton Rapids, Mich.

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

Hampshire Pigs only for sale now, a bargain JOHN W. SNYDER, R. 4, St. Johns, Mich.

Yorkshires For Sale. Bred gilts and sows for farrowing.
Packard Road,
Ann Arbor, Mich.

SHEEP

# KOPE-KON FARMS.

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



Inglesi e Farm offers 80 recorded Shorp-shires 40 rams mostly yearlings, 40 ewes from 1 to 7 years old. Citizens phone, HERBERT E. POWELL,

Some Good Breeding Ewes and registered BAMS for sale. Barnard Sheep Ranch, R. 5, Clare, Mich.

For Shropshire yearlings or lamb rams write ARMSTRONG BROS., R. S., Fowlerville, Mich.

FOR SALE Oxford sheep all ages oth sexes. Palms, Mich. When writing to advertisers please mention The Michigan Farmer.

