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#### DETROIT, JUNE 15, 1918



CURRENT COMMENT.

Community Interest.

desirable to create increased interest as well to do constructive work in the in the breed was a constructive action period of reconstruction which will folbreed organizations. Usually, as in this effective organization is possible than ers. Unfortunately Michigan's wheat case, some progressive member of is afforded by the type of organization crop is considerably below normal, due the organization must take the initia- which the county agents are seeking to tive, do much of the work and help pay establish in the various agricultural the cost, but the results are certain to communities of this state and in the be an adequate recompense.

as well as to the community. Many ex- every agricultural community. amples could be cited to prove this fact, the most notable of which is the community interest in Holstein cattle School Matters. to recall that in July which has been developed in several sections of our state. And this princi- meeting in the thousands of rural basis for a number of years.

Community interest is an important life of rural Michigan. but greatly neglected factor in the building of a permanently prosperous fully weigh beforehand every matter agriculture. It is even more important that will have an influence on school fronted this year to divert their attenmote it are public benefactors.

Rural

of the county agents, in counties where farm bureaus are maintained, is worthy of the support of every Michigan farmer. Every farmer who has given serious thought to this proposition will at once concede that better organization is essential to substantial progress and the community? Is the school support of the county agents, in counties where ful hours there the best chance to defect they advance over two miles.—The United States is now establishing naval conveys for all coastwise shipping. British opportunity and duty in this regard and, if he finds it at all possible, should add to the interest of these events by and the community? Is the school support of every Michigan men and women? Is the school build-in given by the suitable county agents, in counties where ful hours there the best chance to deducational value of these fairs, both advance over two miles.—The United States is now establishing naval conveys for all coastwise shipping. British opportunity and duty in this regard and, if he finds it at all possible, should add to the interest of these events by and the community? Is the school support of every Michigan men and women? Is the school build-in given by the consider of these fairs, both advance over two miles.—The United States is now establishing naval conveys for all coastwise shipping. British opportunity and the consider of the second that the teacher can render the educational value of these fairs, both advance over two miles.—The United States is now establishing naval conveys for all coastwise shipping and to the interest of these events by and the community? Is the school support of every farmer who has given in given it is the character of the second the convergence of the second the converg tion is essential to substantial progress and the community? Is the school supart and prosperity of American farmers. Plied with suitable equipment such as a variety of seats and desks adapted present time when, under the stress of to the various ages of pupils, a ventilating system as good at least as the lating system as good at least as the found it necessary to regulate every kind of business to some degree to their cattle, an adequate heating system as good representation of our Michigan and the community? Is the school supart entering his best products for exhibit. First to be considered in this connection should be the State Fair, because of its greater importance as an educational factor. It is not too early to best dairymen of our state provide for their cattle, an adequate heating system as good representation of our Michigan and the community? Is the school supart entering his best products for exhibit. First to be considered in this connection should be the State Fair, because of its greater importance as an educational factor. It is not too early to begin preparations for making an too begin preparations for making an exhibit at the State Fair, particularly exhibit at the State Fair, particularly of live stock, of which there should be a good representation of our Michigan (Continued on page 738). a whole. Nearly all other business charts, reference books, a library, etc., a good representation of our Michigan

ulation is under discussion.

agricultural interests of the country is your appreciation? a patent fact which is greatly to be re-Michigan Farmer reader.

ization through which the farmers meet their full responsibility. could express themselves most forcibly. Such an organization built on the foun-States Relations Service, could be kept free from politics or personal interests educational factor and absolutely necbe established all along the line as a war necessity, or as an outcome of war experience.

only difficult but quite impossible to 28.2 per cent better than last year. predict with any degree of accuracy The step taken by the what may occur in the way of re-adholding a summer show of national scope would be prepared to country at large. These efforts should Community interest in breeding is a not only receive the approval but the great asset to the individual breeders active support of the farm leaders in

It is none too early

ple applies to the grading up of our school districts of the state. The imcommon stock on a community basis portance of the attendance of every as well as to the breeding of pure-bred parent and taxpayer at their respecanimals as evidenced by the establish- tive school meetings is patent. This, ing of bull associations in many com- however, does not discharge their full munities, where pure-bred sires of one obligation toward the institutions that breed have been used on a community are and will continue to be the greatest factor in the molding of the young

These men and women should care-

ed so that their welfare can be prop for a sufficient supply of pure water? retary-Manager Dickinson, of the Micherly protected by the presentation of What qualifications are being demand- igan State Fair, the federal railroad dependable data when government reg- ed in the teachers selected? Do the authorities have granted a concession The lack of a general organization should to their duties, and if they have stock exhibits, thus lightening the cost which can speak with authority for the done so, have you made known to them of fair exhibitors in this department.

gan, the possible benefits of such an ture generations will be called upon to tions should not be neglected. organization are necessarily limited, meet more complex problems than the though well worth while, but such an present generation has been confrontorganization once established all over ing, and it will be only through the the country could easily be made the training of an adequate educational basis of a national agricultural organ-system that they will be enabled to

The government redation afforded by the work of the Crop Prospects. port on the condition of the wheat crop is most encouraging at this time, when

of every kind and would have at hand wheat is such a vital factor in the winthe best of facilities for the study of ning of the war in which we are enproduction costs on the farms of the gaged and which must be won at any country, which is most essential as an sacrifice. The June 1 crop report indicates that the country's wheat crop is essary should the policy of price fixing likely to be the second largest in our likely to be the second largest in our history. As compared with last year, of the German U-boats operating near the present condition of winter wheat is 132.7 per cent, while the condition In these days when history is in the of spring wheat is 121.5 per cent, makmaking at such a rapid rate, it is not ing the present condition of all wheat

With an indicated yield of close to a billion bushels of wheat, with oats The step taken by the what may occur in the way of re-ad-Michigan Shorthorn justment during the next few years. Breeders' Association in An efficient agricultural organization and with weather conditions favorable for other spring planted crops, there is for other spring planted crops, there is every encouragement that the world shortage of food stuffs will be kept from becoming more serious through the newly-made German salient in the and sale in a locality where it seemed not only protect its own interests but every encouragement that the world which might well be emulated by other low the war. No better basis for an the patriotic efforts of American farmto severe winter-killing, but a large acreage of oats and barley promise a big yield which, if realized, will go far to make up this deficiency.

This is a time when the ever present fear of over-production should not be a disturbing factor since the unpreceshipment will make for compensatory will occur the annual prices. The important factor of increased food production in winning the war is everywhere appreciated, and the farmers of the nation and state are to be congratulated in the success of the congratulated in t to be congratulated in the success of confronted.

> Fairs. the handicaps with which they are con-

in live stock than in other lines, and life. This is none too early to review tion from agricultural fairs of the state, the man or men who successfully pro- the various items that ought at least and their importance from an educathe various items that ought at least and their importance from an education of the school meeting. The tional point of view. The educational advanced classification list.—Jewels condition of the school grounds is a value of a high-class agricultural fair belonging to the former Czar Nicholas The effort toward com- matter that should be given careful is far greater than is generally appre- of Russia, are reported as having been prehensive rural organiconsideration. Are these grounds well clated. The time and money expended recently smuggled into New York City. Organization. zation which is being drained, properly graded, arranged and by any farmer in studying the agriculput forth by the States planted to give the boys and girls who tural and industrial exhibits at any ed to stop the American drive along Relations Service through the medium pass the major portion of their wakegood fair is a good investment. The the Marne.—Germans open a new drive on a twenty-mile front between Noyon of the county agents, in counties where ful hours there the best chance to decounty agents, in counties where

The Michigan Farmer interests are sufficiently well organize etc.? Has the school board provided product. Through the efforts of Section with their welfare can be proposed to sufficient supply of provided product. school officers give the attention they for the free return shipment of live

> The poultry exhibit at this year's We believe it would be a wise pro- State Fair should be the greatest ever gretted under present conditions. In cedure for the various farm organiza- shown in the state. The new \$25,000 this connection the article by State tions of the community or possibly the poultry building now in process of con-Market Director McBride, "Is a Na-local church society to hold a session struction will afford ample facilities tional Board of Agriculture Possible?" previous to the annual school meeting, for putting on a poultry show, which published in our June 1 issue, is wor- at which school subjects can be pub- will be representative of the importthy of a careful re-reading by every licly discussed, and one of the features ance of this great industry in Michishould be the presentation of matter gan. But it is up to the poultrymen of While there is no question but that secured from the state superintendent the state to make the show, as it is to great benefit would be derived by a of public instruction's office relating to the farmers of the state to make a thorough community organization in the ideal rural school and the best well balanced show in every departevery rural community in Michi- equipment for these institutions. Fu- ment. To this end adequate prepara-

#### HAPPENINGS OF THE WEEK.

Wednesday, June 5.

American and French troops stop the German advance along the Marne. Allies make gains near Bethune and Ypres.—German attack near Kemmel is also repulsed.—Total leath list of victims of the U-boat raid off the Atlantic coast numbers sixteen persons, with forty-two others unaccounted for.
--Nearly one million men who have become twenty-one years of age since June 5, 1917, register in this country. —Charles W. Fairbanks, former vice-president of the United States, died during the night at his home in Indianapolis, Ind.

Thursday, June 6.

the American coast has been sunk.— The Allied line between Soissons and Rheims is becoming stronger each day, and notwithstanding the great mass of German troops that is endeavoring to crush the defenders, no progress is being made by the enemy.—The War Industries Board of the United States is

Aisne province near the Marne force back the enemy a distance of two miles on a two-and-a-half-mile front Germans mass troops before Toul for a new attack on American held lines. -It is reported that two German sub-marines were sunk in an attack made upon the United States transport Leviathan, formerly the German liner Vaterland.—U-boats sink fourteen Norwegian ships during May, the tonnage of which is, however, exceeded by the amount of shipping constructed in the dented world demand for food stuffs shipyards of Norway during the same and the increased capacity for ocean period.—Secretary McAdoo announces shipment will make for compensatory tax plan to raise \$8,000,000,000 during the coming year. Saturday, June 8.

their efforts in this direction under the handicaps with which they have been States naval officers.—The advance of Bolsheviki troops accompanied by Ger-Michigan farmers

Michigan farmers

Michigan farmers

Michigan farmers

The Agricultural should not permit particularly those of Japan and China. Five Americans and two Germans are held in New York City on a charge of conspiracy in plotting to aid Germans to land an armed expedition in Ireland.—General Crowder issues or der to local boards to reclassify draft

New German troops have been mov-

# The "Minute-Man" Crop for Michigan

By J. F. COX

tion which now faces the country.

The term "emergency crop" com- uniform. monly applied to buckwheat, is at prestoo late for spring or early summer seeded crops, buckwheat may be planted with assurance of a successful grain

Buckwheat is remarkably varied in use and adaptability. Griddle cakes made from buckwheat flour are distinctly an American culinary product. The unfortunate American who has not experienced them has a rare joy awaiting him. Buckwheat middlings and bolted meal are valuable stock feeds. As a chicken feed buckwheat is highly esteemed. The crop furnishes a valuable bee pasture and buckwheat honey meets with particular favor on certain markets. The fact that its seeds will sprout under comparatively dry conditions, and that the crop will reach maturity in sixty or seventy days makes buckwheat an excellent summer catch erop. As a green manure crop it is of

demand for the utmost food produc- potatoes, it being noted that the pota- more valuable crops, such as corn, blossom time. toes produced are smoother and more oats, wheat and barley.

ent particularly applicable. It is the ety of soil conditions. It will give the middle of July. From three to five ture. Blossoms are usually produced only grain crop adapted to human con- best results on well-drained, fertile pecks per acre are drilled, or seeded until cut short by frost. Harvesting is sumption which can be seeded during loams, but will do better than ordinary broadcast and harrowed in. Applica- accomplished with a self-drop reaper mid-summer and mature a harvest be- grain crops under adverse soil condi- tions of about two hundred and fifty or with the cradle. Since the grain fore killing frosts occur in northern tions. In Michigan it is widely grown pounds per acre of acid phosphate or shatters easily, it should be harvested states. Where corn or other cultivated in regions where sandy lands prevail. ammoniated phosphates will increase and handled early in the morning or

URING the Civil War and imme- value, since it will produce consider- of the Dock family and closely related anese variety is the highest yielding diately after, buckwheat produc- able growth on soils deficient in organ- to Sorrel and Sour Dock, accounts for and the most widely grown, although tion gained an importance which ic matter. Turning under a crop of the extraordinary ability of this crop the Gray and Silverhull are quite comhas never since been attained. The buckwheat on light soils increases to produce profitably on sour and poor- mon in buckwheat sections. In some crop of 1866 was the largest ever their content of organic matter and ly drained soils. Though buckwheat regions it is the custom to mix the grown. The increased production of ability to hold moisture. Buckwheat will withstand such conditions, the Japanese and Gray, the claim being buckwheat under conditions which pre- has a mellowing effect when grown on crop will nevertheless give quick re- made that the larger growing Japanese vailed during that strenuous war pe- heavy soils. In southeastern Pennsyl- sponse to early plowing, thorough variety will shield the smaller plants riod indicates the particular fitness of vania it is an established custom for preparation and fertilization, but is of the Gray and thus prevent blasting, this crop to help meet the inordinate farmers to grow buckwheat preceding then brought into competition with should hot dry weather occur during

The crop is harvested as a rule just The period of planting buckwheat before heavy frosts occur or when the Buckwheat is adapted to a wide vari- ranges from the middle of June to the largest proportion of the seed is macrops have failed, or on land prepared The fact that buckwheat is a member yields and hasten maturity. The Jap-during damp weather. The straw cures slowly and should not be bound into sheaves. The usual custom is to set up in bunches, bound loosely at the top with twisted buckwheat straw, and allowed to cure for several days. Average yields range from fifteen to eighteen bushels per acre, though yields of twenty-five to thirty bushels are not infrequent.

Owing to the comparatively small amount of labor needed in handling this crop and its adaptability to late planting, the area of land given over to buckwheat should be considerably extended in order to help meet the urgent demand for the greatest possible grain production during the coming season. The time of seeding corn, oats, barley and spring wheat is now past, and buckwheat remains the only grain crop which can be settled with hope of a Larvest this season.

#### The Sheep Shearers



# Factors in the Classification of Wool

By I. D. KNOUGH

of federal control wool will sell entire- at a greatly reduced price.

The majority of farmers understand are not fully informed regarding the basis upon which the intrinsic value of a fleece to the manufacturer of woolen products, is determined. Let us talk over for a few minutes some items regarding wool that every farmer may or should have, a working knowledge of, especially if he owns sheep.

Density of the Fleece.

Density of the fleece has reference to the closeness of the fibres upon the skin of the animal. This varies according to the breed, and also according to the individuality of the particular animal. Some of our pure-bred Merino sheep have as high as 48,000 fibres to the square inch.

This, of course, is important to breeder. A dense fleece protects the sheep better than an open fleece. It also keeps out the dirt and makes a more valuable article to the merchant on this account. Where the fibres are close together a larger quantity of what is known as the yolk is retained, which keeps the wool fibres lively and . in a healthy condition. Loose wool is apt to have weak spots in the fibre, due to colds contracted by the animals by not having a proper covering. When a sheep has become chilled or is ill, the pores of the skin contract, resulting in a shrinkage in the wool fibre at

Length of Staple.

the grading of wool only in a very gen- The short staples are used for carding, resembles fur to some degree. eral way. They can separate fine wools while the long staples are used as The long wools are combed, that is

Wools are classed as long or short. cloth, it gives a felty appearance which fleeces he may have for sale.

RARMERS are giving more consider that particular point. This greatly imsuperior felting qualities because of er and then spun into yarn, which eration to the wool crop this year pairs the value of the fleece. No matthe large number of serations or spirmakes a firm, strong cord. Such yarn than they have in the past. The ter how fine the wool might be, if it als in the fibre. In carding this short when woven produced what we call chief reason for this is, no doubt, the has these weak spots, it will not be staple it is broken up into many small worsted cloth. The length of fibre, entrance of the government as a factor available for making high-grade mate- pieces, which when spun run trans- therefore, gives us the names of clothin the distribution of wool. As a result rials, and consequently must be sold versely across the yarn, allowing many ing and combing wools, and should be little ends to project therefrom. When taken into consideration when the such thread or yarn is woven into farmer is endeavoring to classify the

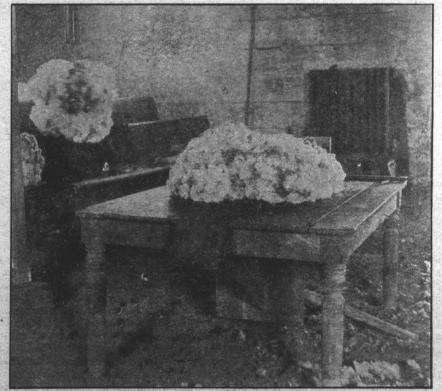
The Fineness of the Fibre.

This quality of wool is generally from coarse wools. Many, however, combing wools. Short staple wool has the fibres are laid parallel to each oth- dependent upon the density of the fleece. There is, however, considerable variation in fleeces of equal density. The health of the animal has much to do with this. Where a sheep has been sick the wool will have less crimp than in the healthy animals, and this crimp is generally looked upon as marking the fineness of the fibre. In testing the strength of these fibres, it will be observed that those from any portion of a fleece will break in relatively the same place; this is due to a weakening of the fibre by some adverse change in the health of the

Condition of the Fleece.

Besides the soundness of the fibre to which we have already referred, the condition of the fleece also takes into account its purity and the quantity of oil or yolk that it may contain. Some wool has what is called "hemp" scattered through it. This hemp is hairs which are most readily detected about the face and forearm of the animal, but if seen they are certain to be discovered over the entire body. These hairs will not take the dye the same as wool fibres, and therefore injure the fleece for the manufacture of dress goods and fine cloth.

The lack of yolk in wool often results in what is called "felty" wool.



The Value of the Fleece is Greatly Impaired by Improper Tieing.

The fibres mat on the sheep's back, centage of shrinkage is seventy per from Michigan and other fleece states tion to the breeding of the animal, the

Shrinkage in Fleeces.

in the fine wool fleeces. Data gathered returns will be made. by the Michigan Experiment Station shows that in some instances the per-

of the animal which in turn may be sheep the shrinkage, on the other hand ernment, are as follows: caused by improper feeding. Where is less than thirty per cent. In purthe yolk is present in larger amounts chasing wool therefore, on a scoured than would cause a "felty fleece," but basis, it is impossible to determine bestill less than the normal quantity, forehand how much scoured wool there what is termed a "cloudy wool" may be will be. It is like testing milk for butthe result. Here the fibres stick to- ter-fat. The only way to learn accugether from the skin to the points but rately the quantity of fibre is to wait not to such an extent as to be termed until after the scouring has been done. This accounts for the ruling by the federal government that growers who ship

Market Grages

The usual grades in which wools bred sheep. It has absolutely no rela-things that effect the value of wool.

The lack of yolk or oil is pretty likely cent or more of the original weight of have been divided by the trade and grades being based upon the quality to be due to the condition of the health the fleece. In some of the coarse wool which are now recognized by the gov- and condition of the staple. Delaine

> clothing Half-blood staple. Half-blood clothing. Three-eights staple. Three-eighths clothing. Quarter-blood staple. Quarter-blood clothing. Low quarter-blood. Common and braid,

When wool is scoured, the oil and wool to distributors on their own ac- grade above fine, which was generally with those conditions which render dirt that it contains is removed. Nat- count shall be entitled to receive an known as "XX." This grade would be wool more or less valuable to the manurally the more oil in the fleece, the advance not exceeding seventy-five per called a "full-blood." Fine wool came ufacturer, for in avoiding some of the more weight will be taken from it in cent of the fair estimated market val- next as a "three-quarter blood," then adverse conditions he may add considthe scouring process. This explains ue of this wool. Then as soon as pos- came the half-blood, three-eighths erable to the value of a product which why the shrinkage is usually greater ble after the wool can be scoured, final blood and quarter-blood. These grades for years to come will be a very profit-

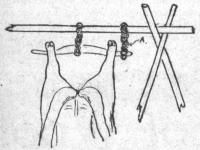
wools are those that have in addition to a fine fibre, sufficient length to make them available for the manufacture of fancy fabrics.

The grading of wool is a business by itself. Men become expert at it only after long years of handling the pro-The farmer, however, should duct. know something of the general principles upon which the fleeces are classi-The wool trade had established one fied. He should also be acquainted should not be interpreted to mean that able one to produce. If one is starting XX, for instance, is taken from pure- a flock he should have in mind the

# Suggestions for Our Busy Farmers

TO HANDLE THE KILLED HOGS EASILY.

handling of hogs at butchering time, free from rain or dew. This should be useful in handling light hogs also. It able weather conditions, and it should consists of short lengths of chain with be tedded at least an hour before bea hook on the end of each piece. When the hog is ready to be hung the gambrel is placed in the tendons of the feet, lifted up with a pole and one of the lengths of chain put in the center of the gambrel and fastened over the



pole on which the hogs are to be hung; this is much easier than trying to lift the hog and place the gambrel over the pole.

When the hog is to be cut up onehalf of the hog may be cut down at a time by taking another length of chain and putting it around the end of the gambrel as shown at A in the drawing. One man can easily cut down a big hog method of picking strawberries. Large by himself by this simple arrangement quantities of desirable berries may be sold was one hundred and forty-six. and there is no danger of dropping it ruined by carelessness, indifference, or

#### BALING HAY.

Except for local consumption in a limited way, hay for market must be baled. There is also an increasing number of farmers who bale it for their own use. The saving of time and labor in feeding baled hay on the farm will more than pay the cost of baling.

The baling of hay has much to be said in its favor. It saves a great deal of the waste that occurs where the hay stands in the stack for any length of time. It saves two-thirds of the stor- carefully, not thrown, tossed, or drop- a day this would make a total of \$20, age space necessary for the same ped into the box. To gain speed, there and the use of two horses at \$3 a day tains from twenty to forty per cent pull or snatch off the berries and toss the double-row cultivator, it took one more of its food value than when loose. them into the boxes. Some pickers man just five days to do the same It sells at a higher price per ton than crush, bruise, or squeeze much fruit work. With his pay and keep figured loose hav.

hay is just as soon as it is cured well pile up berries on full trays which of cultivating the eight acres of corn enough so it won't spoil. If timothy must later be taken off and placed in was only \$32.50, against \$50 by the old have is cut and cured at the proper other boxes. Such practices result in method. Three or four cultivations of everything and everything in its place time, it can be baled in the field. If bruised berries as well as many with- an eighty-acre tract is going to go a will pay big interest on the investment. It is time for the cow which does not pay, to go to the block, but it is othy should not be cut until nearly all and berries without hulls do not carry vator, farm mechanic experts point nearly all and berries without hulls do not carry vator, farm mechanic experts point nearly all and berries without hulls do not carry vator, farm mechanic experts point nearly all and berries without hulls do not carry vator, farm mechanic experts point nearly all and berries as well as many withothy should not be cut until nearly all and berries without hulls do not carry vator, farm mechanic experts point the bloom has fallen and a small per well to the market, and in proper pick- out. Practical farmers throughout In- producers. cent of the heads are beginning to turn ing are not allowed in the boxes. Un-diana who have used both plows say cent of the heads are beginning to turn ing are not allowed in the boxes. Undiana who have used both plows say should be formed into groups of farmyellow. If cut at this stage, and it is less each row is picked dean of all the two-row cultivator will do work should be formed into groups of farmyellow. If cut at this stage, and it is less each row is picked dean of all the two-row cultivator will do work should be formed into groups of farmyellow. If cut at this stage, and it is less each row is picked dean of all the two-row cultivator will do work ers to change work and facilitate farmyellow. free or nearly so from green weeds, it berries that are ready at each picking, absolute as well as the single-row operations.

Collowing day, provided the weather is fruit .- F. Bulletin. good. If baled directly from the swath, Here is an idea that makes easy the care must be taken that it is entirely TWO-ROW CULTIVATORS HELP TO especially if the hogs are heavy; it is attempted only under the most favoring taken up.-Harry L. Spooner

#### MEASURING SPRAY SOLUTIONS.

A stick marked with notches makes a good guide for drawing off a measured amount of lime-sulphur for spraying. Instead of using a quart fruit jar, ery possible instance. or a gallon measure, every time the tank is to be filled, get a wooden lard tub. Fill the tub with the required amount of lime-sulphur, using your vertically into the tub, the tub being set level. Make a notch in the stick to the end of the stick rests on the bottom of the tub. If different strengths of solution are used on some trees than on others, several such notches can be made, and the number of gallons marked on with a pencil.-E. H.

#### HOW TO PICK STRAWBERRIES.

Pickers should be taught the proper from discarded trace chains.-J. L. J. forefinger, as shown at the left in illus- report of one farmer.

can be cut one morning and baled the me next picking will contain overripe cultivator and that it is just as easy to

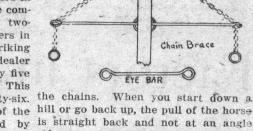
### SOLVE LABOR PROBLEM.

Hundreds of farmers in Indiana are ever saw for the use of chains on a adopting the two-row cultivator this wagon instead of a neckyoke. I saw it year along with other improved farm on the farm of a neighbor recently. machinery as the best solution of the The pieces between the tongue and farm labor problem. This is shown by chains are eye-bars which any blackthe large number of sales reported smith can make for you. The inner from every section of that state, indi- ends of the pieces are fastened to irons cating that the farmers are endeavor- specially made for this purpose and ing to solve their own problems in ev- the outer ends are fastened to links of

Last year in nine typical Indiana counties, one implement concern sold thirty two-row cultivators to dealers in this territory. This year the same comliquid measures, and then place a stick pany sold one hundred and six tworow cultivators to the same dealers in the same period. Here is one striking show how high the liquid rises when example. Last year the firm's dealer at one point bought and sold only five two-row cultivators to his patrons. This year this same man sold twenty-six. These men had seen the value of the two-row cultivator demonstrated by their neighbors.

Another example of how farmers are taking up labor-saving machinery may be seen in these same nine counties. In 1917 only thirty-eight tractor plows were sold to dealers in this section of the state, while this year the number

Advantage of the two-row cultivator in the mud or dirt. The chains can be inexperience in picking. Picking is over the old single-row plow which has made from old pieces of log chain or done best by the use of the thumb and been in use for years, is shown by the tration, each berry being pinched off eighty acres of corn with a single-row with a stem about three-eighths to one- plow, it took one man ten days. Figurhalf-inch long, and placed in the box ing his wages, board and lodging at \$2 thus giving a longer leverage, and a



operate as the one-row outfit.

WAGON-CHAIN BRACE.

Here is one of the best devices I

hill or go back up, the pull of the horse is straight back and not at an angle sideways as it would be otherwise.-John K. Graham.

#### HANDLE FOR BARREL SPRAY PUMP.

Some of the growers in our section find the old-fashioned barrel outfit indispensable in spraying, especially on small trees. To increase the efficiency of the pump, these men are using an extension on the handle. A short length of well casing or two-inch pipe is simply slipped over the pump handle better hand hold. If this plan is tried, it will be found that the arms can be worked long hours without the fatigue resulting from the short handle, because all the muscles of the upper body are used, while with a short high handle, the arms are cramped more or less.-E. H. Brown.



Proper Method of Picking Shown at Left. Other Two Injure Fruit.

The most economical time to bale ries in the hand at one time; others for five days at \$22.50 the total cost enough so it won't spoil. If timothy must later be taken off and placed in was only \$32.50, against \$50 by the old

amount of loose hay. Baled hay re- always is a tendency for the picker to would mean \$30, a total of \$50. Using while picking, by holding too many ber- then at \$10 and the use of three horses

#### SHARPEN GUARDS.

The guards on the mower and binder would do better work if the "dubbed over" points were filed off sharp. New plates may be required also, and some guards may be loose. Make the machinery one hundred per cent efficient, ready for the field.

#### GET THESE TOO.

economy to butcher profitable

### What Glezen Did for His County By I. J. McMURTRY

father the movement in their home very satisfactorily. communities. At the same time, Mr. istered sire of the same breed.

er with persuasive and persistent faculties sufficient to carry the project successfully through. Mr. Glezen saw the vast possibilities of the natural re-



This is Glezen.

sources of Northern Michigan as soon ers are now coming to believe, that as they could be properly articulated Cheboygan county has the land, the with pure-bred cattle. He began agi- climate, the men, the money to make tating and early in December, 1916, un- it one of the greatest cattle counties,

T a meeting of the northern Mich- girls the first carload of Holstein heifigan bankers held in Alpena ers ranging in ages from three to four some two years ago, Agricultur- months to two years and in price from ist W. C. Byers, of the Michigan Cen- \$30 to \$150. These heifers gave such tral Railroad, explained to the bankers satisfaction that enough applications the possibilities of the Calf Club work were received within another month to as it had been carried on in Illinois for warrant the buying of a second carsome little time and urged them to load of heifers. These were placed

The impetus given to the dairy in-Byers proised that for every carload dustry in the county was such that it of pure-bred heifers shipped into a was little trouble for the county agent community, the Michigan Central Rail- to organize pure-bred sire associations. road would loan that community a reg- Today something like over two years after these two carloads of heifers So far as the writer knows, Banker were brought in, there is a strong de-H. T. Glezen, of Cheboygan, was the mand, not simply for high-class grade only banker who had the vision togeth- Holstein, but registered animals are wanted.

> Mr. Glezen is now planning to take applications for the third car of heifers to be brought in this spring. These will probably be exclusively first-class registered stock.

> Early in February of this year, Mr. Glezen and the county agent planned and worked out what was accounted to be a very successful all-day cattle breeders' meeting. The leading speakers of the meeting were Prof. A. C. Anderson, head of the Dept. of Dairy Husbandry, M. A. C., and Hon. D. D. Aitkin, of Flint, president of the Holstein-Friesian Association of America.

The farmers of Cheboygan county today are taking a forward look in the live stock industry that would have been entirely unthought of had not Mr. Glezen and his board of directors a year and a half ago received the vision that they did, taken the forward look, and placed the resources of their institution at the command of every farmer for the betterment of the live stock interests. They believed, as the farmloaded and placed among the boys and not only in Michigan, but in America.

# We Fed Your Cows



Almost every high American record for fourteen years with any breed was made with our Ajax Flakes as an important base of the grain ration.

I Unicorn Dairy Ration is the only feed that contains Ajax Flakes.

I You can hardly find a pure blood whose maternal ancestors were not fed on Ajax or Unicorn.

Unicorn is recognized as a safe efficient and economical dairy feed.

Unicorn during the past year made more high records than any other brand of feed.

Unicorn really costs less per pound of milk or fat produced than other

Chapin & Co., Dept. M, Chicago

# European Live Stock Losses

HE comparative losses of live equivalent to 500 pounds of dressed the United States Food Administra- lowing extent: tion.

As regards meat, the Central Powers were much better prepared for the war than the Allies. Although the Allies possessed a greater total number of meat animals, the Central Powers had forty-two per cent more per capita. This advantage amounted to thirtythree animals of all classes per one the animals still alive and the reported hundred population.

mals by conquest, Germany has not ly still further reduced. slaughtered her home supply of live stock as rapidly as otherwise would and hogs now in the United States is have been necessary. There is now a about 187,000,000; according to best espractical exhaustion of animals in Bel-timates, which makes a striking comgium, Serbia and Rumania as a result parison with the European depletion of invasion, according to information of 100,000,000 animals. Briefly, it apfrom very reliable sources. In total pears that Europe has already lost conanimals the Allies have decreased their siderably over half as many meat aniherds and flocks 45,787,000 head while mals as there are in the United States Germany has reduced hers about 18,- today. 000,000—only slightly more than a third as many. The figures include LADY MAKES GOOD AT FEEDING. cattle, sheep and hogs. Neutral nations show a total net reduction An unusual shipment of hogs was amounting to 1,412,000 of these ani- that made a short time ago by Mrs. A. mals. The European loss thus exceeds A. Wiswell, of Warren county, Illinois, 65,000,000 head without taking into con- who had forty-eight prime one-year-old sideration Austria, Turkey and Russia swine which averaged 401 pounds on which would, undoubtedly, bring the the Chicago market. They were well total to over 100,000,000.

ropean meat situation at present is se- brought \$68 per head. Mrs. Wiswell cured by reducing the number of ani- also had a carload of 938-lb. yearling mals to the actual amount of dressed cattle on the market, and they sold for

stock by the warring and neutral meat apiece; sheep forty pounds, and nations of Europe and the gen- hogs 150 pounds, it appears that the eral effect on their meat supply may various countries have suffered losses be judged from figures announced by in their total meat assets to the fol-

Per Cent of Loss on Meat Basis.

Allies as a group	28.7
England	12.5
Belgium	82.0
France	
Italy	17.8
Germany	36.3
European neutrals	0.9
	ItalyGermany

Considering the poor condition of reduction in live weight, the possible Due apparently to acquisition of ani- meat resources of Europe are obvious-

The total number of cattle, sheep

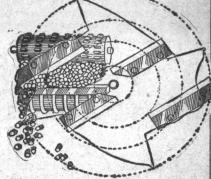
finished, and such weight and finish A somewhat clearer view of the Eu- are seldom seen these times. They meat they will yield. Rating cattle as \$15.25 per 100 pounds.

# alamazoo CENTER SHEAR SILO FILLERS

DEFORE you buy an ensilage cutter—investigate make comparisons—study different makes from the standpoint of durability, economical running, freedom from trouble and break-downs. Men who study silo fillers carefully before buying, select Kalamazoo because of these

# 10 Big Feature

1—Malleable, unbreakable knife wheel. 2—All working parts covered to prevent



accidents.

3—Center - shear cut gives even flow of ensilage.

4—Absence of vibration lengthens life of machine.

5—Less power required because of centershear and no vibration.

6—Triple feed rollers insure steady feeding.

6—Triple feed rollers insure steady feeding.

6—Reversible shear bar gives four cutting edges.

9—Hard oil cups provide ample lubrication for every part.

10—Guard to prevent accident in case belt slips.

The biggest of all these big Kalamazoo features is the center-shear cut. It means smoother running, less power, less vibration and longer life to the machine.



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# Home Grown Fertilizers for Orchards

be classified as a new practice

the fertilizer famine than cover crops," Prof. C. P. Halligan declares. "Cover they have the power to make such of these elements as are present in the soil much more readily available to the friuts. What is of equal importance, they do this at a season of the year when these elements are most needed.

"Recent experiments in fertilizing commercial orchards have shown that it is possible to derive great benefits from fertilizers which add nitrogen to the soil. Some of the chief advantages of leguminous cover crops lie in the fact that they serve just this purpose, and furnish an element which, if the purchaser had to buy in the form of commercial fertilizer, would be very expensive. Clovers, vetches, beans and peas, when used as cover crops, supply nitrogen to the orchard soils. But cover crops have their greatest value in that they add humus to the soil. This humus tends to maintain the physical condition and increase the water-holding capacity of the orchard land. One of the strongest arguments in favor of

in fruit growing. Orchardists, almost crop purposes depends largely upon those first mentioned. from time immemorial, have used them the character of the soil and the time to find his problem becoming an in-summer and fall, as well as the tramp- in the spring, so that by the time the creasingly baffling one, unless he ing of pickers and packers at harvest- orchard is plowed, there is a fairly awakens quickly to the value of cover ing time. If used with oats and seeded heavy crop of rye to turn under.

HE use of cover crops cannot by water. The addition of humus makes as a cover crop, but its lack of hardi- ous, they do not themselves add nitroany stretch of the imagination their capacity in this respect greater, ness, especially during severe open gen to the soil. "The selection of a plant for cover winters, makes it less desirable than

to advantage, as successful growers at which it can be seeded. On sandy been previously used for cover crops, well prepared, and to obtain the maxiare still doing-and as others. who soils, winter vetch is one of the most where the soil is not in an ideal condi- mum benefit from the amount of seed wish to successfully tide over the un-desirable leguminous cover crops. It tion, rye is a desirable crop to use. It used, it will often be desirable to drill certainties of war times, must do must be seeded rather early, that is, brings the soil to a mellow state, so the seed, rather than to broadcast it. find than a pro-German (not to men- it usually is combined with oats or rye, is also an excellent cover crop to sow fruit growers in Michigan cannot afford tion the matter of prices after they are as vetch makes but a slow growth in if the seeding has been delayed until to neglect this practice of obtaining the fertility of his orchard soil is going withstand very dry weather during late ing the fall, and springs up very early cover crops.

with a drill, fifteen pounds to the acre, "Of the other crops that may be used This matter is dwelt upon at some is sufficient with a bushel of oats; but oats are probably the most popular. length in a press bulletin just issued if spread broadcast, twenty to twenty—
by the Department of Horticulture of five pounds should be used per acre. much better than weeds in an orchard.

On the heavier clay loam soils, Mam—
Oats can be sown late, and produce a just the same.

"Of all the resources available to moth Clover and June Clover are both good cover in the fall. They are also

Macomb Co.

W. H. the fruit grower at this time, none can desirable leguminous cover crops. very popular in orchards that are to be be used more effectively in overcoming These crops require a very well pre- disked in the spring, rather than plowpared seed bed and if the weather con- ed, as there is less difficulty in workditions are favorable in late summer ing them into the soil. Oats also make mash of twenty-five pounds of bran to crops, themselves, add neither potash and fall, a good growth will be secured. an excellent crop to sow with winter nor phosphoric acid to the soil, but Crimson clover is also used sometimes vetch or peas, but being non-legumin-

"The comparatively high price of seed at the present time makes it im-"On orchard lands that have not portant that the soil should be very With fertilizers becoming harder to some time in July or early August, and that other cover crops are grown. Rye Under the present abnormal conditions found), the man who would keep up the fall and early winter. It is able to the fall. It makes a fair growth dur- he many benefits to be derived from

#### TROUBLE DEPARTMENT.

#### Cutworms.

What can I do for cutworms?

Cutworms, which are often prevalent at this time of the year, can be fairly well controlled by making a poison two pounds of Paris green. The bran and Paris green should be thoroughly mixed while dry and then slightly moistened so that the Paris green will adhere to the bran. This should be sprinkled around the plants toward evening so that it will still be moist when the cutworms come out to do their damage.

The winding of the plants with paper is of little use, as the paper gives the worms as good a foothold as the plants.

For trees a band of cotton wrapped in an umbrella shape is a barrier to the cutworms in getting to the tops of the trees.

The digging of the ground around the plants will often reveal the cutworms, as they spend their daytimes just under the ground near the plants that they have damaged. They can be destroyed by dipping in kerosene, or by crushing them.

Watch the weather, watch insect and fungous diseases and watch the fruit. If an additional spray is necessary, put it on. Don't allow past efforts to prove abortive on account of the need of one more application. Clean fruit will pay best.



cultivation in Michigan orchards is the fact that this practice conserves the ture to insure a steady growth of their crops. Dry weather not only cuts the moisture. Soils without humus are not crop yield but also decreases the quality of the vegetables. The overhead capable of holding large quantities of times.

# State and Federal Crop Reports

Wheat.—The average condition of was 86 in the state, 82 in the southern with last year is 82 in the state, 85 in wheat is 56 in the state, 52 in the counties, 88 in the central counties, 91 the southern counties and upper peninsolutions, 46 in the central in the northern counties and 97 in the central counties and 76 in the northern counties. The condition of was 86 in the state, 82 in the southern with last year is 82 in the state, 85 in the southern counties and upper peninsolution. counties, 65 in the northern counties and 96 in the upper peninsula. The condition on May 1 was 57 in the state, 53 in the southern counties, 51 in the central counties, 69 in the northern counties and 98 in the upper peninsula. The estimated total number of bushels of wheat marketed and consumed by growers in the ten months August-May is 11,500,000. Eighty-one mills, elevators and grain dealers re-port no wheat marketed in May.

Rye.—The condition of rye in the state is 72, southern counties 70, central counties 66, northern counties 77 and upper peninsula 92. One year ago the condition in the state was 83, in the southern and central counties 81, in the northern counties 87 and in the upper peninsula 94.

Corn.—The acreage of corn planted or to be planted as compared with last year is 97 in the state, 100 in the southern counties, 96 in the central counties, 91 in the northern counties and 100 in the upper peninsula. The condition of corn as compared with an average of the condition of corn as compared with an average. erage is 94 in the state and central counties, 95 in the southern counties, 88 in the northern counties and 99 in the upper peninsula.

Oats.-The condition of oats as compared with an average is 98 in the state, 100 in the southern counties, 99 in the central counties, 96 in the north-ern counties and 94 in the upper pe-ninsula. The condition one year ago

Barley.—The acreage of barley sown Bariey.—The acreage of pariey sown or that will be sown as compared with last year is 106 in the state, 113 in the southern counties, 101 in the central counties, 93 in the northern counties and 103 in the upper peninsula.

Meadows.—The condition of meaddows as compared with an average is 91 in the state, southern and northern counties, 89 in the central counties and 99 in the upper peninsula. The condition one year ago was 83 in the state, 82 in the southern counties, 81 in the central counties, 86 in the northern counties and 93 in the upper peninsula.

Potatoes.—The acreage of potatoes planted or to be planted as compared

in the northern counties. The condi-tion as compared with an average is 95 in the state, 97 in the southern counties and upper peninsula, 94 in the central counties and 91 in the northern

Cabbage and Celery.—The number of acres of cabbage planted or to be planted so far as reported is 8,505 in the state and the number of acres of

Sugar Beets.—The acreage of sugar beets planted or to be planted as compared with last year is 103 in the state, 106 in the southern counties, 91 in the central counties, 121 in the northern counties and 116 in the upper peninsula

Colts and Calves.—The number of colts as compared with last year is 81 in the state and southern counties, 76 in the central counties, 83 in the northern counties and 89 in the upper penin-The number of calves as compared with last year is 96 in the state, 94 in the southern and central counties, in the northern counties and 109 in the upper peninsula.

Fruit.—The following table will show the prospect at the present time for a crop of the various kinds of fruit in the state and the different sections:

Apples80 77 81 85 9 Pears64 63 68 62 9 Peaches13 14 10 10	Annia 00				
Pears64 63 68 62 8 Peaches13 14 10 10	Appres80	77	81		Pen 98
Peaches 13 14 10 10	Pears64	63	68	62	87
Disamo FO FO FO	Peaches13	14	10	10	10 10 10
Flums 58 59 54 59 9	Plums58	59	54	59	93
CL	Cherries .66	59	79	70	93
	Stw'brs87	83	97	89	95

Grain and seed threshed in Michigan up to and including June 1, 1918, as per returns of threshermen is as fol-

	Acres.	Bush.	Yield Bush.
		Y STATE OF	per acre,
Wheat	772,575	13,925,108	18.02
Rye	323,452	4,534,317	14.02
Oats1	,240,352	44,814,252	36.13
Barley	129,045	3,319,962	25.73
	32,829	351,212	10.69
Peas	14,932	155,020	10.38
Beans:			
White	426,303	8,105,822	7.29
Red Kid	8,918	46,700	5.24
Brn Swed	2,322	12,964	5.58

# Federal Estimate of U. S. Crops

		l Produ				
	Mill	ions of I	Bushels.	Yield	l Per Acı	e.
		1917,	1912-		1917.	1912-
Crop.	1918.	Dec.	1916	1918.	Dec.	1916
		Est.	Av.		Est.	Av.
Winter wheat		418	552	16.1	15.2	16.1
Sp'g wheat		233	257	15.3	12.6	13.8
All wheat	931	651	809	15.8	14.2	15.4
Oats		1,587	1.296	33.7	36.4	32.8
Barley	235	209	202	25.8	23.7	27.0
Rye	81.0	60.1	44.5	14.9	14.7	16.5
Hay, tons	107	94.9	95.4	1.54	. 1.36	1.40
Apples	203	175	214			
Peaches	42.9	45.1	49.6			
		SAN DE LA CONTRACTOR DE				

# Uncle Sam Delivers Butter You Don't Permit Your

post offices, indicates that parcel post creameries before shipment. marketing of butter is feasible. It is The experimental shipments to the sometimes more distant zones.

Butter.

rying from one to ten pounds, over successful for shorter distances. both long and short distances, in order The results of these experimental

3.1 per cent, were received in an unsat- satisfactory condition.

UTTER is highly perishable unless isfactory condition. These very satisit is handled under proper condi-factory results may be attributed to tions, yet the fact that many con- the care exercised in the proper packsumers obtain their supplies direct ing of the butter in suitable shipping from producers by parcel post, proved containers and the precooling or thorby the quantity passing through many ough hardening of the butter at the

usually an economical method, as the state experiment stations were satiscost of market distribution through the factory where the temperature and disregular wholesale and retail channels tance were not too great. Butter which of trade is relatively high in compari- had softened much in transit from the son with the cost of shipments by par- creamery to the bureau when later cel post from the first and second and shipped to the experiment stations did not arrive in as good condition as that Experimental Parcel-post Shipments of in which the grain had not been previously injured. In general, the ship-Shipments of butter aggregating ments from Washington were successmore than 10,000 pounds have been ful when forwarded as far north as made by the Bureau of Markets, under Maine and as far west as Michigan and various conditions and in packages car- Indiana. Shipments into the south were

to test various kinds of shipping con- shipments indicate that well-made buttainers, methods of packing, and the ter, thoroughly chilled before shipping, possibilities of parcel-post shipping of when packed in a suitable container, butter during the summer and other may be marketed satisfactorily by parseasons. These experimental ship- cel post when extreme high temperaments consisted of (1) shipments of tures are not encountered. Under ordifresh butter from four creameries to nary conditions, where the butter does this bureau, and (2) shipments of the not melt and a firm or semi-firm condibutter received from the creameries tion is maintained, the shipping of butby the bureau to experiment stations ter by parcel post generally may be and return shipments of the same. successful. Even though proper safe-Although many of these shipments guards were taken, the shipments were made during the heat of summer, made during extremely hot weather only fourteen of the 454 shipments, or frequently arrived in an oily and un-



#### URGES USE OF DAIRY PRODUCTS

In order to clear up a misunderstanding among dairy farmers and distributors of milk in certain parts of the country who fear injury to their business, the Food Administration announces that it has never advised the public to decrease whole milk consumption or attempt to substitute other foods for milk. On the other hand, the 1918 Home Card, issued recently, says: "Use Milk Wisely. Use all the milk. Waste no part of it. The children must have whole milk. Use sour and skim-milk in cooking and for cottage cheese."

# A Task Not to Be Neglected By H. W. SWOPE

One of the most important things in this work and not nearly as good as a the operation of a dairy is the cleaning genuine alkali powder. of the dairy utensils. They must be It is a good plan also to have on vessel.

sils in the lukewarm water, they sanitary. should be thoroughly washed in hot water, using some good brand of alkali washing powders to be found on the up. It will save steps.

There will be little time on the farms washing powder. There are many good market that will answer the purpose this year to listen to agents.

and make this part of the dairy work A corn crop kept thoroughly cultivated. easier each day. Soaps or powders ed is, as a cleaning crop, almost equal that contain grease as a part of their composition will not make a satisfactory brand of soap or powder to use in strive not to be the worst.

cleaned and rinsed thoroughly immedi- hand several good stiff brushes that ately after being used; this will pre- are adaptable to cleaning the various vent the water in the milk from evap- utensils used daily. If steam is installorating and the solid matter sticking ed it can be used very effectively in fast to the utensil. If it is found im- sterilizing the utensils, but of course possible to wash the utenslis at once, this is not always installed and it is it will be a good plan to rinse them in necessary, therefore, to follow out the lukewarm water so that the greater rinsing and washing process, as I have part of the milk will be removed before described. Never wipe the utensils afit has had a chance to stick fast to the ter washing them in the hot water. pail or cow. Hot water should never The heat imparted by the steam or hot be used until the milky substances water will make the utensils dry very have been removed with the lukewarm quickly. They should be placed upside water first, as the hot water will coag- down on the racks so no dust or dirt ulate the casein in the milk so that it will get on the inside of them. This sticks to the pail and will therefore re- is just as important as the cleaning quire a great amount of washing be- process. Never put covers or lids on fore it can all be removed from the the cans or pails, but give them free access to air and sunlight at all times. After thoroughly rinsing the uten- This keeps them bright, clean and

> Kill weeds while they are small. Keep all gates closed and all gaps b. It will save steps.





Chicago

Sharples Milkers—used on half a million cows daily. San Francisco



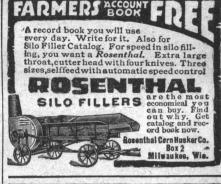
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#### B-V-T-Silo Built of everlasting Brazil Vitrified Fire Clay. Reinforced with steel ribs bedded

in cement. You'll never have to rebuild it. Your neighbor has one. Ask him. Send for Booklet D Brazil Hollow Brick & Tile Co. Brazil, Indiana



Mention the Michigan Farmer when writing Advertisers

#### Intensive Production

THE thresherman to make money these days must crowd every working hour with production of the most intensive kind; if his machine lags or breaks down he is a loser. When the drive is on, his machine must work easily and work profitably. Adverse conditions must not slow his output to the losing point. Moving machinery that is over-worked is liable to trouble. A mechanical part that can do the same work without power or mo-tion is not. That is why the "Man Behind the Gun," exclusively used in the Red River Special Separator, gets results. It re-quires no adjustment and yet accomplishes more clean separa-tion than other machines can tion than other machines can get from end to end.

#### Save the Farmers' Thresh Bill

Investigate the Junior Red River Special, the thresher for small power and home work. Write for circulars.

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

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Our policy not only protects your car but it protects you against personal liabilty and defence of suits.

If your car frightens a team and damage results—injures a child or collides with another auto, we assume the responsibility and pay all costs.

This protection alone is well worth the cost of our policy. In addition we insure your car against fire, windstorm, cyclone

Let us send you full informa-tion about our policy. Let us send you the name of our agent in your locality. We have more than 500 agents in Michigan.

Auto Owners Insurance Co., 524 Capital National Bank Building, Lansing, Michigan

# REE to Hay Balers Get 1/4 to 1/3 More Silage alo — quicker, easier. SILO EXTENSION ROOF METAL SPECIALTY CO.

# The Red River Special Prosperity Through the Dairy Cow

By CHAS. E. RICHARDSON

asked all of the pupils individually for everyone. what animal seemed to them the most heard. She asked him:

is the most wonderful?"

"The cow," he answered.

The way everyone laughed at this etc. All of these are valuable. unexpeted answer, made the poor boy hang his head in shame.

But, today that same little boy, now grown to be a man, has shown that he was not very wrong when he stated that he thought the cow was the most



A Wonderful Animal.

of the finest herds of pure-bred cattle, of money received. If butter is sold one so "on their nerve" that there is and his farm is one of the most fertile and while he has not the wealth of tilizer taken from the farm for each when an ill-timed shower closely fol-Rockefeller or Morgan he has inde- ton. With this and milk a large per lows a perfect job of earth mulch crependence and happiness which great centage is taken from the air through ation, and, worst of all, leaves a guess this has been acquired through the help of cows.

I have in mind two different persons who started farming about ten years ago. Each had about the same sort of a farm to start with. And each had the same amount of capital to begin with. In fact, they each started with the same. One of them stated that he was not going to be bothered with cows; they "tied one down too much." He made the principal method of his farming raising crops to sell. He planted large acreages to potatces and used commercial fertilizers. At first he made more money than the other man. But, by gradually taking out of the soil its fertility in the form of crops, and selling them, he is now unable to raise much on his farm. He is at present teaming for a living and agriculture is only a side-line.

The other fellow began with a few cows. Made dairying the foundation of his farming. He gradually worked up his mowings and fields with the manure which his cows made. Little by little he added new stock to his products are sold, as the reverse is, these that one is at his wits end to herd and after getting a pure-bred bull with grain or hay and other crops.

wonderful. She received all sorts of nice cows, there he has beings work. the cow will do her part to win the names; most of them were names of ing for him at all times. A cow is one strange and curious animals. There of the busiest of animals. Night and was one little fellow who had done a day she is taking crude material in the lot of listening, but had kept very still form of hay and grain and silage and and had not talked about what he had converting these into valuable food products such as milk and butter. She "William, what animal do you think knows no holidays. At times she presents to her owner young which go to make up the herd of the future cows,

> Even when the cow gets too old for dairy purposes, she is sold for beef, as a final source of profit.

But, there is another thing which the farmer gets which is worth much. derful of all animals. That is manure. That is made night and day and that is the foundation of the fertility of the farm. That is a fertilizer which is truly valuable. Manure makes the light soil firmer, makes the heavy soil more mellow. Puts hufor a number of years.

the farm in fertilizing ingredients \$7 dairy products there is only about \$2 mer showers entail. or less for each ton. Where one ton of wealth cannot always buy. And, all of the feed consumed. So, with dairying as the whether there is another to fol-

NE time, I remember, when I was ture is the foundation of a powerful carried his cows through these hard a youngster at school, the teach- and prosperous nation. In proportion times get his reward. Besides, his farm er was telling the scholars about that the live stock is sold off from any will be up in fertility, where those that the different kinds of animals there country, then poverty and failure takes have not the stock to make the mawere. It was a lesson in natural his- place. On the other hand, wherever nure, will have gone backwards. The tory, and she told about lions and tig- the farmers are successful, which is cow is going to save the farm. And, ers and other wonderful and strange principally through live stock farming, the farm that is prosperous (through creatures. After she had finished, she there is found happiness and progress its dairying, etc.), will help to build when a farmer has a stable full of nation. With the help of the farmer, war and make everyone who has stood beside her, and carried the dairy through, successful.

Truly, when we realize the changes that have been in the cow, from the beginning, when she gave a few quarts of milk each day, until now, through the ages of time, she gives enormous quantities of milk and butter-fat; how she has been the foster-mother of the human race, and the foundation of our fertility, and incidentally prosperity; who will not agree with the little boy mentioned at the first of this article who said that the cow is the most won-

#### THE FICKLE SUMMER SHOWER.

To maintain a continuous efficient earth mulch over the entire surface of mus into the soil and holds moisture all our cultivated fields is a goal worin dry seasons, and in the early plant- thy of our best endeavor. It is also an ing days retains the heat of the sun object more difficult of attainment than which makes the soil keep warmer the uninitiated have reason to believe. for the early crops. And, unlike com- Experience is required that one may mercial fertilizers, it stays in the soil fully appreciate the situation. Even under the most favorable conditions of When one sells from the farm hay, summer precipitation, with the most corn, wheat, etc., there is taken from efficient appliances to be had, one must "go some" to keep ends up, without to \$10 worth for each ton sold. With the extra soil stirrings that fickle sum-

To provide weekly soil stirrings for milk is sold there are ten to twenty of all our cultivated crops, with all the wonderful of all animals. He has one the other products for the same amount other work that must be done, keeps there is only fifty cents worth of fer- no reserve patience to keep one sweet there is practically no loss when its low in its wake. It is at such times as

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BEST IN THE LONG RUN

(400 to 140 to

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When there is time for marketing small orders to private customers it pays better than selling to the local dealers or the commission men. However, every farmer has to figure out most of his own marketing problems for himself. Some find it takes too much time to dress and market poultry to private consumers and they make more money by giving their time to production problems. This practically means that the farmer hires the local dealer to be his agent or poultry sales-There is a lot to learn about poultry marketing problems. Most farmers know that they have not yet found out the best method. A little more instruction along that line from the experiment stations will be appre-R. G. KIRBY.

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# Get Money Out of Your Tires

country have been putting money into tires. Isn't it time to think about getting money out of them?

You buy your plows, reapers, threshing machines, and your wagons to get money out of them. You measure the money you get out of them by the kind of service, and the length of service they render you in the business of farming. Measure the money you get out of tires the same way. Count the pleasure you get from them excess profit.

Tires today are the common factor in the business of farming transportation. Let Goodrich Tires make money out of tires for you in your hauling problems.

They will, because Goodrich Tires are built to give the maximum of the kind of service which coins into money, as real as the money you get out of your farm implements.

This is not a boast, a mere promise, or a dream. It is fact, proved in a nation-wide, year-long testing of-

The Goodrich brand on a tire—and you men of the farm know the value of a trustworthy brand—is a guarantee of high service. Goodrich has stood for what is best in rubber for a half century. That half century of experience starts Goodrich Tires with tire bodies built right, and treads tough to stand the roughest going.

But Goodrich, to take the last risk out of its tires, sends them forth with its Test Car Fleets, and batters them over every kind of road in our country; perhaps over the roads that pass your farm. Their strength and dependability are sure because they are proved.

It makes no difference what kind of tires you need, pneumatic tires large or small, truck tires, motor cycle and bicycle tires, Goodrich has the tires which on the farm coin themselves into money.

The big, generously sized pneumatic tires roll up phenomenal mileage. The truck tires outwear steel under the heaviest loads. Get money out of tires by making sure you get Goodrich Tires.

THE B. F. GOODRICH RUBBER CO.

On Sale at all Goodrich Branches and Depots THE CITY OF GOODRICH · AKRON, OHIO.

# In the Special Sale By Mail

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there are more than a thousand opportunities to make a dollar buy more. That is what Montgomery Ward & Co.'s Special Mid-Summer Sale by Mail offers you. This is a price-smashing sale—a remarkable collection of bargains.

You probably have the 100-page Book of Bargains of this sale. If not, send us your name and address for your free copy at once.

Study this book and you will realize the money-saving opportunities that this Mid-Summer Sale brings right to your door. Look through it again—today. Every offer on every page saves you real money. Every offer is a bargain—a picked special. What you need to wear, to eat or to use in the home—all dependable, guaranteed merchandise.



Ft. Worth Portland, Ore. Kansas City

Please Write House Nearest You

# IT WILL PAY YOU

To send for some of our special offer coupons to hand to your neighbors. For full details address

THE MICHIGAN FARMER, Detroit, Michigan





Pulverized lime rock for "sour, soils. WE SELL YOU DIRECT. Shipment from our Muskegon, Mich, yard. Write for sample "transporters, analysis and price." LAKE SHORE STONE COMPANY,
P. Q. Box 175,

# Seed Buckwheat \$5

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

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

Mention The Michigan Farmer When Writing Advertisers

### Intensive Production

THE thresherman to make money these days must crowd every working hour with production of the most intensive kind; if his machine lags or breaks down he is a loser. When the drive is on, his machine must work easily and work profitably. Adverse conditions must not slow his output to the losing point. Moving machinery that is over-worked is liable to trouble. A mechanical part that can do the same work without power or mo-tion is not. That is why the "Man Behind the Gun," exclusively used in the Red River Special Separator, gets results. It requires no adjustment and yet accomplishes more clean separation than other machines can get from end to end.

#### Save the Farmers' Thresh Bill

Investigate the Junior Rod River Specual, the thresher for small power and home work. Write for circulars.

Nichols & Shepard Co.

Battle Creek

Michigan

# \$7 Protects Your \$1000 Car



Our policy not only protects your car but it protects you against personal liabilty and defence of suits.

If your car frightens a team and damage results—injures a child or collides with another auto, we ssume the responsibility and pay

This protection alone is well worth the cost of our policy. In addition we insure your car against fire, windstorm, eyclone

Let us send you full information about our policy. Let us send you the name of our agent in your locality. We have more than 500 agents in Michigan.

Auto Owners Insurance Co., 524 Capital National Bank Building, Lansing, Michigan





# The Red River Special Prosperity Through the Dairy Cow

By CHAS. E. RICHARDSON

asked all of the pupils individually for everyone. heard. She asked him:

is the most wonderful?"

"The cow," he answered.

The way everyone laughed at this etc. All of these are valuable. unexpeted answer, made the poor boy hang his head in shame.

But, today that same little boy, now a final source of profit grown to be a man, has shown that he was not very wrong when he stated farmer gets which is worth much derful of all animals.



A Wonderful Animal.

and his farm is one of the most fertile there is only fifty cents worth of fer- no reserve patience to keep one sweet and while he has not the wealth of tilizer taken from the tarm for each when an ill-timed shower closely followed while he has not the wealth of tilizer taken from the tarm for each when an ill-timed shower closely followed by the contract of the contrac Rockefeller or Morgan he has inde- ton. With this and milk a harse per lows a perfect job of earth mulch coa

I have in mind two different persons who started farming about ten years ago. Each had about the same sort of a farm to start with. And each had the same amount of capital to begin with. In fact, they each started with the same. One of them stated that he was not going to be bothered with cows; they "fied one down too much." He made the principal method of his farming raising crops to sell. He planted large acreages to potatoes and used commercial fertilizers. At first he made more money than the other man. But, by gradually taking out of the soil its fertility in the form of crops, and selling them, he is now unable to raise much on his farm. He is at present teaming for a living and agriculture is only a side-line.

The other fellow began with a few ows. Made dairying the foundation of his farming. He gradually worked up his mowings and fields with the manure which his cows made. Little herd and after getting a pure-bred bull with grain or hay and other crops.

er was telling the scholars about that the live stock is sold off from any will be up in fertility, where those that the different kinds of animals there country, then poverty and failure takes have not the stock to make the ma were. It was a lesson in natural his- place. On the other hand, wherever nure, will have gone backwards. The tory, and she told about lions and tig- the farmers are successful, which is cow is going to save the farm. And,

wonderful. She received all sorts of nice cows, there he has beings worknames; most of them were names of ing for him at all times. A cow is one strange and curious animals. There of the busiest of animals. Night and beside her, and carried the dairy was one little fellow who had done a day she is taking crude material in the through, successful. lot of listening, but had kept very still form of hay and grain and silage and and had not talked about what he had converting these into valuable food products such as milk and butter. She "William, what animal do you think knows no holidays. At times she pre- of milk each day, until now, through sents to her owner young which go to the ages of time, she gives enormous make up the herd of the future cows,

> Even when the cow gets too old for dairy purposes, she is sold for beef, as

that he thought the cow was the most That is manure. That is made night and day and that is the foundation of the fertility of the farm. That is a fertilizer which is truly valuable. Manure makes the light soil firmer, makes the heavy soil more mellow. Puts hus earth mulch over the entire surface of mus into the soil and holds moisture all our cultivated fields is a goal wor in dry seasons, and in the early plant, thy of our best endeavor. It is also an ing days retains the heat of the sun object more difficult of attainment than which makes the soil keep warmer the uninitiated have reason to believe for the early crops. And, unlike com- Experience is required that one may mercial fertilizers, it stays in the soil fully appreciate the situation. Even for a number of years.

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THE B. F. GOODRICH RUBBER CO.

THE CITY OF GOODRICH AKRON,

# Buy from Goodrich Dealers Located Everywhere W.S.S. On Sale at all Goodrich Branches and Depots

RUN

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You probably have the 100-page Book of Bargains of this sale. If not, send us your name and address for your free copy at once.

Study this book and you will realize the money-saving opportunities that this Mid-Summer Sale brings right to your door. Look through it again—today. Every offer on every page saves you real money. Every offer is a bargain a picked special. What you need to wear, to eat or to use in the home—all dependable, guaranteed merchandise.

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Kansas City Ft. Worth Portland, Ore. Chicago

Please Write House Nearest You

# IT WILL PAY YOU

To send for some of our special offer coupons to hand to your neighbors. For full details address

THE MICHIGAN FARMER, Detroit, Michigan







Pulverized time rock for "sour, soils. WE SELL YOU DIRECT.
Shipment from our Miskegon, Mich, yard. Write for sample literature, analysis and price.
P. O. Box 175, Milwankee, Wis.

# Seed Buckwheat \$5

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

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

Mention The Michigan Farmer When Writing Advertisers

### Why Purchase Fertilizer Now?

Will you need fertilizer this summer or fall? If you do, orders should be placed at your earliest convenience since delay will increase the probability of not getting your needs supplied. Here is a statement from the United States Railroad Administration bearing directly on the proposition:

The Car Service Section of the United States Railroad Administration desires to call attention to the necessity for still heavier loading of fertilizer cars to be used for summer and fall

Excellent results have followed the efforts in this direction already made by fertilizer manufacturers and shippers, and we are able to report that the average carload of fertilizer this spring was from twenty to thirty per cent heavier than in previous seasons. This economy of space has saved the equivalent of many thousands of freight cars. In other words, large numbers of cars have been released for other urgent war-time needs-certainly a saving of great importance in these days of service car shortage.

We feel, however, that even greater saving must be effected. Practically every car should go out loaded to capacity plus ten per cent. The demand for cars to move war supplies to the seaboard is increasing daily. Every shipper must contribute his share toward making up the extra car supply required for government uses. There is only one way in which to do this; and that is to load cars heavier and thus ship the same amount of goods in fewer cars.

We appreciate the fact that in order to load every car to capacity, manufacturers must have their orders in hand at a date sufficiently early to allow the assembling and grouping of all lessthan-carload quantities. This, of course, necessitates full and free cooperation on the part of the farmer and dealer.

We want to urge upon you to use every means at your disposal to secure such active cooperation from both the dealer and consumer, that orders may be on hand early enough this summer to enable manufacturers to send out every car loaded to capacity plus ten per cent. We feel certain that when the necessity for this action is brought forcibly to the attention of the farmer -upon whose response success depends-the cooperation secured will approach one hundred per cent.

We must get results, but results secured through free cooperation are much to be preferred to results secured by official regulation.

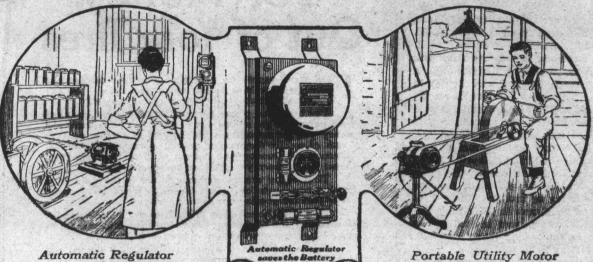
#### WILL PAY FARE OF HANDS WHO LEAVE TO WORK ON FARMS.

Money to pay the transportation of workers to the farms of the state where this is necessary, has been appropriated by the war preparedness board to the labor agencies conducted by Michigan in many cities, according to A. B. Cook, federal farm labor di-

The appropriation, which was small but sufficient, will be used as a revolving fund—that is, men whose tickets are bought for them will be required to reimburse the board. The system is one that has been adopted in several states with practically no loss to any of them, and from the agricultural standpoint has added greatly to the efficiency of the employment agencies maintained by the states.

"Conditions at present indicate that farm labor 's fairly plentiful, and is going to be available in sufficient quantity, at prices not unreasonable, all things considered," Director Cook de-"The farmer must stand ready," he adds, "to pay a reasonable wage, though he need not permit anywage, though he need not permit anyone to hold him up."

# -Western Electric-POWER and LIGHT



THE automatic regulator device on Western Electric Power and Light is found on no other electrical plant. This exclusive feature places this outfit in a class by itself.

Makes Engine Self-Starting

This wonderful little device simplifies the making of electricity and represents an entirely new method of charging a storage battery.

It removes the human element and the chance of overcharging the battery; thus insuring longer life to this-the most delicate part of every lighting system.

Ready for Any Kind of Work

It does away with the complicated switchboard and makes this plant unequalled in simplicity of starting and operating.

# Uses Any Engine

And, best of all, this Western Electric plant will operate successfully with

any kind of an engine. If you already have one you can use it with this outfit.

Let us tell you about this plant, and how easy you can get electricity on your farm. Mail the coupon for Booklet.

100 Acres Stock & Tools \$2000

Splendid New York dairy, general farm bargain, on good road, near 2 fine lakes, depot. milk station, high school, churches, etc. 99 acres fine tillage; spring-watered wire-fenced pasture for 20 cows, home-use wood; large quantity fruit. Good 5-room home, 2 barns, other buildings. Aged owner, alone, for quick sale includes pr. horses, helfer, hens, mower, rake, plows, cultivator, harrow, wagons, tools, hay, etc., all for \$2500, part cash. Never before advertised, will rell quick, betails page 17 Strout's Catalogue. Copy free, with other bargains including crops, stock, tools.

Let A. STROUT FARM AGENCY.

Dept. 101, 159 Nassau St., New York, N. Y.

FARM FOR SALE

etc. 100 ton silo, young orchard, near school. Telephone, R. F. D. A. J. BRENISER, Onaway, Mich.

#### WESTERN ELECTRIC COMPANY INCORPORATED

Kirby Ave. and Dequindre St., Detroit, Mich. 500 South Clinton St., Chicago, Ill.

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As a HUMAN REMEDY for Rhem-matism, Sprains, Sore Throat, etc., it invaluable. Every bottle of Caustic Balsam sold is Warranted to give satisfaction. Price \$1.50 per bottle. Sold by druggists, or sent by ex-press, charges paid, with full directions for ita-use. Send for descriptive circulars, testimo-nials, etc. Address THE LAWRENCE-WILLIAMS COMPANY, Cleveland, Ohio.

Seed Buckwheat \$5

Per 100 pounds. Bags extra at 35c

Young-Randolph Seed Co., Owosso, Mich.

# Don'l wait, closing out large estate near Pensacola, Florida, Clay subsoil, Railroad through land, prices \$17.50 to \$25.00 per acre, St acres or larger tracts. Terms easy. Apply Thomas M. Campau, 502 Whitney Office Bldg., 172 Griswold St., Detroit, Mich. To Exchange for farm or city property. Country store and fine home, barn, garage, fruit, small railroad town, fine farming country, former occupant did \$500. weekly business, COOPER & GOVER Mt. Pleasant, Mich.

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Scotch Cellie Pups for Sale. Pure bred stock prices reasonable O. E. Hawley, R. S. Ludington, Mich.

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FLEMING BROS. 252 Union Stock Yards, Chicago, fft. FOR SALE

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The Wing invention of a horse shoe to build up and prevent broken down horses by taking the bearing off the Capedia bone and placing it on the shell of the hoof where it belongs. A great boon to such horses. Don't fail to show this ad, to your black-smith or write to Warren Wing, — Winn, Michigan

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\$1.25 to \$1.65 per bushel. If you buy in carloads or less send for samples. OARPENTER GRAIN COMPANY, Battle Oreek, Michigan.

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

# Magazine Section

LITERATURE
POETRY
HISTORY and
INFORMATION



The FARM BOY
and GIRL
SCIENTIFIC and
MECHANICAL

# WORLD EVENTS IN PICTURES



Edison and Schwab at Launching of Vessel.



Latest Photograph of President Wilsony



Scene in Shell-battered Rheims.



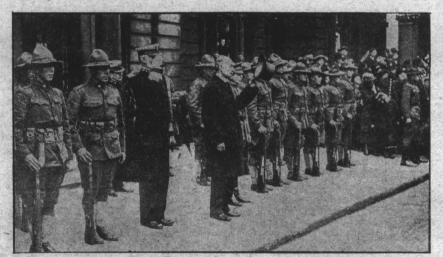
Refugees Driven from Homes.—(British Official Photo).



The Universal Appeal.



Battery of British Guns .- (British Official Photo).



Admiral Sims and Ambassador Page Review U. S. Troops in London.



Vacuum Cleaner Collects Coins in Red Cross Drive in New York.

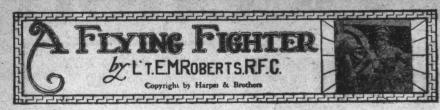


Big American Guns Arrive Close to Front Lines.—(French Official Photo).



Machine Gun Squad Fighting in the Open .- (British Official Photo),

Copyright by Underwood & Underwood, New York



(Continued from last week).

"Get down! Get down!"

We all laid down right where we were and waited. The working party is protected by the patrol, and that patrol had warned us. We waited until we got another call that everything was clear and went to work again. After that every time a maul hit a post it sounded to me like a 12-inch gun. Presently the Huns started to send up star shells for the purpose of finding out where the noise came from. By that time we were down again, of course. But the enemy took a chance with their machine guns in the direction from which the noise had come. The bullets went to one side of us, however. The firing did not last long, and then we resumed our labor; but I heaved a sigh of relief when we were through with the job, and we were back in the second-line dugout with a kettle full of tea and some chuck.

Two days later I was called in by the commanding officer and ordered to return to my unit. His report of me, he said, he would send in by telephone. I surrendered my equipment, said good-bye to the boys I had met, and started for Squadron Headquarters. I had gone about two miles on my way back when I passed something that resembled a house. Part of the chimney was shot off, and the windows were all broken. The ruin was similar to many others one could find around that part of the country.

Of a sudden the front of the structure slid to one side and a roar like a clap of thunder came out of it. Then followed a burst of smoke and a glimpse of the long, great barrel of a heavy gun settling on the recoil, and then the front of the house slid backcamouflage. For some minutes there was an awful ringing in my ears, and I had to hunt for my cap, which had been blown off my head. I found it under the leafless branches of a tree across the road, and near it were the bodies of four small birds which had been killed by the concussion.

> CHAPTER VIII. My First Flight.

PON my arrival at the squadron headquarters I reported to the commanding officer, who called in one of the flight commanders. The felt the uneasiness which is experi- expression of disdain. two of them discussed for a while as enced by the person who is at sea for ness had been disposed of, I was sent course threatened to entirely upset my busy with his anti-aircraft battery. to the quartermaster of the aerodrome stomach. to be fitted out with the requisites of But before long interest in the things did not seem to be as greatly interestthe flyer. These consist of a helmet, underneath me overcame that sensa- ed in us as they might have been, and

me to take the front seat of the ma- that we were going up. but still the chine and strap myself in. While I idea that remained uppermost in my things beneath us. . The earth looked was attending to that my nerves seem- mind was that the earth was dropping flat now. Hill and dale had disappeared a little bit unruly. The moment for away from us. which I had hoped so much was come

We began to climb up and up. I was found that it looked like a lawn. Only

at last, but my sensations were not exbeginning to enjoy this when of a sudits darker green separated it from the

the risks of aviation became more real. ed to fall. But the machine continued part of a checker board. Though I had often dwelt on the fact on an even keel, and from back of me be seen at all. Two little towns over that there are no landing places in the came two sharp raps. Then I was which we flew looked about a foot kid,

And you ought to feel that way, for now is your chance to make your lightly that whatever happened to the I looked around and saw the pilot.

I was enjoying this very much when bid

airplane would happen to me. There smiling. He was saying something of a sudden the engine stopped once in case something went wrong.

But there was no time for philoso- question: phizing. The pilot took his seat behind me, strapped himself in, tested various levers and contrivances; in the and judged from the searching look in plane-glide-to earth, but I was not meantime somebody started the motor the eyes behind the goggles that the so sure that this particular pilot, deof the plane running.

ler should have gained the speed necthe field.

began to "taxi" across the field, and other place. Over and near the lines gained momentum with each instant.

It is hard to describe the sensation were caused by exploding shells. the engine out and that the earth sible for me to hear anything else. seemed to roll from under us, though - So long as the puffs of smoke stayed ground reminded me that we were still 'taxying."

the wheels hit some other high places, would come nearer to us. showing that as yet we were not off ground again, but hoped in vain.

chine left no doubt in my mind that drawing after them. we had left the ground for good.

ing steadily enough, but for all that I fingers, while over his face went an

satisfactory to him, for presently he The list of the machine forward began to point out the objects on the made another severe attack upon my ground, which was now far below us. nerves. I surmised that the pilot in-We were then some eight thousand tended to glide. What I feared most, feet above the ground.

The pilot drew my attention to lines to do some fancy tricks aviators are on the ground-mere pencil marks- fond of, especially when they have and he told me that these were the novices aboard. There might be somtrenches and communication ditches, ersaults, just plain or corkscrew fashand I thought how much safer the boys ion, and I was quite sure that any-I do not remember whether the pilot out as far as the eye could reach, and wide puffs of smoke appeared. They had when the kite was finally in mo- began to listen for the detonations, but

the bumping of the wheels on the near the ground and the trenches, all was well, I concluded. But I remem. Of a sudden the bumping ceased and and wondered how long it would be beseemed suspended in mid-air. But fore those beautiful little smoke puffs

While I was still wondering a flash the ground. Once more the machine ahead of us rent the air. It was yelwas being supported on its wings. I low and intense. The next moment a hoped that the wheels would touch the round powder puff took its place, and The increased pressure against the from this began to curl in all direc- plane could be felt by a tautness that The motor was speeding up now and tions smoke ribbons which the fragthe peculiar swaying motion of the ma- ments of the exploding shell were body and mind included. The next mo-

I noticed that the airplane was fly- said nothing, but held up two warning my great surprise, I noticed that we

essary to give us a good start across in the trenches were, even with the thing of the sort would be too much mud and rats. The lines stretched for me. But this did not seem to be the ingave the signal that he was ready by were parallel in the main, though here tention of the pilot. I had hardly word or by a gesture. Anyway, of a and there they diverged a little to found comfort in that thought when I sudden the machine started to move, come closer to one another at some noticed that the speed of the machine was now so terrific that the wire stays began to scream and whistle. The sensation of great speed overwhelmed me. Everything began to revolve about me, tion. I remember that the pilot opened the noise of the motor made it impos and I had to keep my eyes off the earth in order not to grow sick. It was not the motion of the machine alone that caused this sensation, but the great speed at which the earth bered the Hun aviator's fate at Ypres, seemed to be coming up to meet us.

Minutes seemed hours long, and with each second my prayers that this would soon be over grew more fervent. I was suffering all the tortures man

however, was that he might attempt

ever imagined.

Of a sudden the machine lurched. went over every part of it, my own ment I noticed that the wire stays I looked around at the pilot. He were no longer singing, and then, to were directly above the aerodrome.

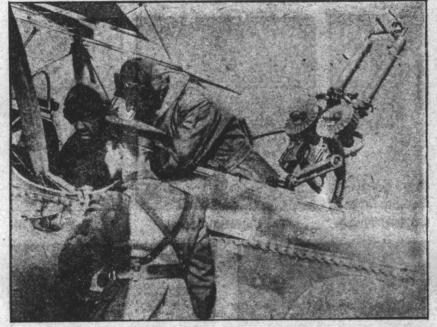
The realization that this trip would soon be over was a great relief. But another fear seized me. We were not far from the ground now, but were still going at such a speed that the machine coming in contact with the ground would certainly be smashed; so, at least, I thought.

That was not the case, however, though the bounce we got when the wheels first touched showed me that it was indeed well to be strapped into the seat. The strain of my body against the leather was such that the straps creaked, and I would have been catapulted out of the machine had it not been for the safeguarding strap.

After the first bounce the machine traveled another short distance on its planes, hit the ground once more, rose again, and then taxied up to the shed.

I unstrapped myself and then climbed out of the machine. I was glad to be once more on solid ground even though it did heave a bit.

(Continued on page 731).



Making Ready for the Flight.

The pilot with whom I was to fly told most peculiar manner. I told myself down ceased.

As I fastened each strap around me "Willie, you're a dead one." I expect- and the fields around them seen

"How do you like it?"

ing the machine back until the propel- result of his scrutiny must have been earth.

Four other shrapnel shells exploded Oh, I'm glad as a kid, as a very small hear us, and there was now no doubt kid, to what pilot was to take me up on a the first time. The slightest departure near us, and there was now no doubt trial trip, and when this serious busi-of the machine from its horizontal in my mind that "Archie" was very

the flyer. These consist of a helmet, underneath me overcame that sensal ed in us as they might have deen, and through; leather coat, fur gloves, and goggles. tion. The earth was receding in the after awhile their efforts to bring us. There's such a lot we can plan for

I was once more able to watch ed. We sailed over a forest and I at last, but my sensations were not exbeginning to enjoy this when of a sudactly what I had imagined they would den the engine stopped. My heart went remainder of the landscape. The farm
My boys, what a jolly bunch they are
into my mouth. And I said to myself, houses were the size of a match box
And my girls, how worthy praise;

The hours that I like the best by far the risks of aviation became more real. ed to fall. But the machine continued part of a checkerboard. Men could not

standing. But from his lips I read the upon that motor as something human, and I found myself unconsciously appealing to it to start again. I knew, of I replied that I liked it well enough, course, that the machine could volpilot was very much interested in as- spite his great reputation, was really I noticed that several men were hold- certaining the state of my nerves. The the man to bring me safely back to

#### VACATION DAYS.

BY L. M. THORNTON.

When school lets out in June I could dance a jig if I ever did

The Hun aircraft batteries, however, For its good to be sure of my boys d not seem to be as greatly interest-And my girls for the whole day

And so much that it's good to do. Oh, I'm glad as a kid, as a very small

kid, When the school house door is

Are in these vacation days.

airplane would happen to me. There smiling. He was saying something of a sudden the engine stopped once For their love and their trust today, was no getting away from the machine which I had great difficulty in under-more. Somehow I had learned to look And there's nothing under the heavens

That can make the angels glad, As a boy and a girl, while the years go by, Who are loving "chums" with Dad.

One thing seems certain: So long as one great nation stands armed to the teeth, all other nations are safer with a thorough system of prepared-



# "It isn't because the idea is new-but because your ideas are old, John"

"Your father felt the same way about the harvesting machine—and the same way about the silo, the tractor and the automobile. My place is as modern by night as it is by day. We have electricity for light and power. Electricity lessens all of our work. It is like another hand—it saves work doing the chores—and the current is always available for light or power day or night. Investigate, John, as I did. I found out all about farm lighting plants and bought the Alamo Unit.

"Here are some of the reasons I chose the Alamo. First, for its simplicity. It requires little or no attention. It is practically automatic in operation. You simply touch a button to start or stop it. If lubricating oil or cooling water runs low, it automatically stops so the machine cannot injure itself."

#### A Complete, Compact Unit.

The Alamo is built in one complete, compact unit. The engine, the generator, the radiator and the switchboard are mounted together on one base—this does away with belting, shafting and the like. Its running balance is perfect. It can be set anywhere—no special foundation is required. It is free from vibration and noise.

#### Super-Silent Motor

The engine or motor has ample power — yet it is simple and abuse-proof. Alamo engineers solved the problem by the use of the Ide Super-Silent Motor, designed expressly for this plant.

#### Durable, Dependable and Safe

The generator runs practically without vibration, adding greatly to the life of the unit. It is well ventilated and entirely protected against oil. Its capacity

is 1,000 watts. This is ample power for furnishing all lights required, charging the battery and plenty of current for other purposes.

#### Easy To Install

Because of its simplicity the Alamo Unit is easy to install and easy to care for. And when the Alamo is installed, a woman or child can take care of it and run it. All there is to do is to keep fuel and oil supplied and water in the radiator.

#### Booklet Free

The Alamo booklet describes and illustrates the Alamo Unit in plain, simple, non-technical language. It tells the "whys and wherefores"—it describes everything in an understandable way. Write for this booklet, it is free. When we send it, we will tell you the name and address of the nearest Alamo dealer, and where you can see the Alamo Unit in operation. Write today.

ALAMO FARM LIGHT COMPANY

Address Male Office:
1215 Farman St., Omaha, Neb.

Use ALAMO Electricity

The Perfectly Balanced Electric Unit

### Parson Rawlins' Page By ELMER HICKS

the usual custom, with the great book fight, instead of main strength. before him, started recording the dodays that had gone before.

with the pen held over page marked backed off to catch his breath. "Parson Rawlins," he hesitated, and been done for five years now.

that dim and distant earth below.

downward, searching San Francisco's fastest pace. dim outlines until he located the wick-Coast.

little church, located right in the heart ting a kick himself but all the time disappears, and is replaced by a someof that vile nest of crime, and go forth putting such a beating on the other fel- what pungent odor, and the skins are down a crooked, dirty street past rows low as had never been administered in thoroughly saturated with oil. They of brightly lighted houses with their the rogue's life before. windows and doors wide open, showgaze within.

painted, half-dressed women offering, keep from falling down. forcing, themselves on any who might wiles.

the maudlin, drunken songs, for he when. was thinking of the souls that must be saved among that mighty throng.

The Recording Angel saw, as Parson the judge." Rawlins turned into a dark, ill-lighted fians step forward and block his path, of deeds both great and small, The parson was startled for a moment at the interruption and the Recording Angel almost held his breath.

"Are ye' that slinkin', cowardly preacher?" demanded the larger of the brutes, "that's trying to upset the business of better men than you?"

"I am the servant of the Lord," replied the parson in the meekest kind of voice, but his eyes held a most steady gleam.

"Soak 'im first, Slim," ordered the big one, "the worse he's beat the more we get."

Parson Rawlins backed off before them. He was in a sea of doubt, for he did not want to be pounded to a pulp and truly this was no time to turn the other cheek. As the two men crowded him he prayed:

"Oh, Lord, you are my Shepherd. You led me here and this must be thy will." And he squared his broad shoulders, placed his back to the wall and waited their rush with a knowing smile. The Lord's work, this time, thought the parson, should be well done or he missed his guess by a mile.

The ruffians advanced with one foot forward, using a well known shuffling ring gait that kept them braced for any shock that might come. There was a swift exchange of blows, a thud or two of bare fist on flesh and the parson ducked between them to retreat to safer ground.

"Prize-fighters," he muttered and manoeuvered so as to meet the smaller one alone.

The ruffian came on with a rush, but cautious just the same, till he was just the right distance from his man to hit and save himself from harm. But there the victim took a hand.

"God be with you," spoke the parson and landed a well-aimed kick right in the fellow's ribs.

It was a trick learned by experience while working as a rough lumber-jack fight was all knocked out of him for several weeks to come.

P above the twinkling stars the vanced on each other with a cautious Recording Angel was beginning tread. Each knew the other was no his work for the day, and, as was mean opponent and skill would win the wash leather in course of business

Suddenly they mixed at a fast and ings of the righteous first; even before furious pace. Arms and fists were fly- called "chamois" leather, is now al- a National Guard Encampment last their day's work was done, for the only ing as each man ducked and fought and ways made from the flesh-split or "lin- summer: entry to be made was a ditto of the the thud of fist on flesh told of many ing" of sheep skins, the thin grain of licks finding their mark. As suddenly which constitutes the "skiver." As the Heavenly Recorder paused as they had gone together each man splitting is done on pelts fresh from

did not make the regular entry as had smile, though one eye was entirely drawn, and, to get sufficient plumpness Parson Rawlins' day was about done and the blood trickled from many cuts either at once, or after a slight drenchbut where was the nightly "All is on his face. It brought back the mem- ing, are thrown into a fulling mill, or Well" sent by his guardian angel from ory of former ring days before he had The Recording Angel turned his gaze that the clean liver always stood the a semi-dry and somewhat porous con-

ing their attractions to all who might sisted for the fellow seemed to have dation of the oil (and might even take But neither to the right nor left look- left jaw broken, and every front tooth up or spread on a floor to cool), while ed the Parson; he did not seem to see loose, the man hung to the fence to at the same time a good deal of irritat-

venture within reach of their luring of satisfaction and unclenched his right till the oxidation is complete, heating hand, releasing the broken pen staff no longer takes place, and the skin is Nor hear the mechanical pianos or that he had crushed without knowing yellow throughout, and full leathered.

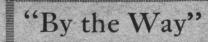
street, two husky, bullet-headed ruf- pen, in the great book of daily records drying, and "fluffing" on an emery

"Parson Rawlins: . A Christian duty well performed!-"

#### HOW "CHAMOIS" LEATHER IS MADE.

Probably many people who handle would find it difficult to explain how it is made. Wash leather, as it is often eral of the army, tells this story about washing with warm alkaline solutions

# the limes by a machine with a vibrat-The parson was wearing a glorious ing knife against which the skin is closed and his lips split and swollen the liming must be through. The skins, "faller stocks" together with some sawaccepted grace, and he remembered dust, and are kneaded until they reach dition, when they are sprinkled with "Devil take the hindermost," prayed fish oil. The stocking is continued, ed blotch of sin known as Barbary the parson and waded in at a furious with occasional pauses to allow the gait. Striking with right, with left, goods to cool, and sprinkling with oil He saw Parson Rawlins leave the dodging and ducking, sometimes get- at intervale till the original limy smell are then packed in a box and covered . Finally the enthusiastic parson de- up, when they rapidly heat by the oxienough. With both eyes closed, his fire, if not taken out in time and hung ing acrolein vapour is evolved. This The Recording Angel breathed a sigh packing is repeated two or three times The remaining operations consist in "That Parson deserves a military pressing out the surplus oil (degras, or medal," he said, "but, alas, I am not sod oil, which is valuable for currying), Instead he wrote with the broken to remove the residual oil, and finally wheel to produce a smooth surface.



PIE AND -!

Colonel W. C. Gorcas, Surgeon-Gen-

"Jim Wheeler, a new volunteer who



had not quite learned his business was on sentry duty one night when a friend knowing his fondness for pie, brought him one from the canteen.

'While he sat quietly on the grass devouring the pie, the major sauntered up in undress uniform. Not recognizing him, the sentry did not salute, so the major stopped and asked, 'What's that you have there?'

"'Pie," answered Jim, good-natured-'Squash pie. Have a bite?'

The major frowned. 'Do you know who I am?' he asked haughtily.

"'No,' the sentry answered, 'unless you're the major's groom.'

'The major shook his head. "'The barber from the village?"

"'No!' thundered the other. "'Maybe'-and the sentry laughed-

'maybe you're the major himself-' "I am the major!' came the stern

'Good Heavens!' exclaimed the sentry. 'Hold the pie, will you, until I present arms?"

#### FAULTLESS LOGIC.

"Ma," remonstrated Bobby, "when I was at grandma's she let me have fruit-tart twice."

"Well, she ought not to have done so, Bobby," said his mother. "I think once is quite enough for little boys. The older you grow, Bobby, the more wisdom you will gain."

Bobby was silent, but only for a moment.

"Well, ma," he said, "grandma is a good deal older than you are."-Tit-

#### OBSERVANT CHILD.

Teacher.—"What is water?" Willie.—"A colorless fluid that turns black when you wash your hands."

#### HIS GENEROSITY.

A "Tommy," lying in hospital, beside him a watch of curious and foreign design. The attending doctor was interested.

"Where did your watch come from?" he asked.

"A German give it me," he answered. A little piqued, the doctor inquired how the foe had come to convey his token of esteem and affection.

"E 'ad to," was the laconic reply.

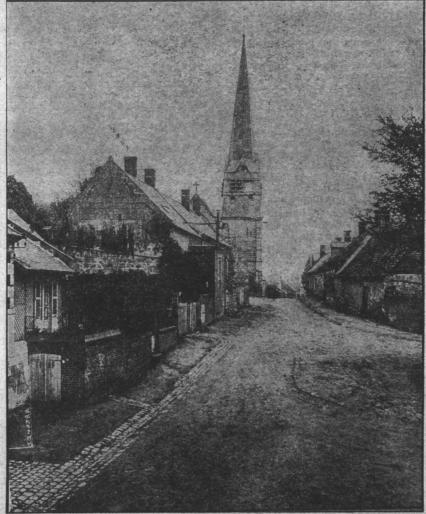
#### AUNTY'S JOY.

"I told you last Sabbath, children." said the Sunday-school teacher, "that you should all try to make someone happy during the week. How many of you have?"

"I did," answered a boy promptly.

"That's nice, Johnny. What did you

"I went to see my aunt, and she's always happy when I go home again." -Boston Transcript.



#### Bailleul the Beautiful

Bailleul was considered one of the most important strategic points on the Western Front and was the first of the main German objectives in their April drive towards the channel ports. The British had used it up to April 16, as the strong point from which they hurled back the waves of enemy attackers on the Flanders front. This view shows the principal street and in the great North Woods, and down the church in the city, which the enemy now holds. When the photograph was went his opponent with a groan. The made it was far behind the lines and still unmarred by enemy bombardments. do?" Bailleul is a typical Flanders village, its quaint old buildings and winding streets lined with picturesque homes, once the pride of a happy, peaceful Parson Rawlins and the big one ad- people, now a mass of shell-torn, crumbling ruins.

#### A FLYING FIGHTER.

(Continued from page ,728).

holes in the planes of the machine ject aimed at. which must have been made by the contents of the shell which exploded behind us, and which I could not see from my seat in front. But old "Archie" had been a little off-color in his shooting, as he generally is.

made upon me as shown by a dream I had that night. I dreamed that I was up in the air higher than anybody had ever been before, and that the machine suddenly broke up into small parts. I was plunging down trying to catch these parts and was just about to hit the ground when I discovered that I was on the floor near my bunk.

pilot who had taken me up, Lieut. R .--, when an orderly came out and told me that I was to report at headquarters. There I was told that I was to be sent to a battery of sixty-pounders to learn what I could about artillery.

The next stage in my training as an tery

the battery, I spent in a dugout, which then have some value. was comfortable enough; besides, the ers alone so, at least, the Sergeant-Major said. But in that, as in other things, he was mistaken. The insects took a violent liking to me and inside of three days I had the finest collection of them the battery could boast of.

I made the acquaintance of a new serves for an arena. Into this one puts ters I had the satisfaction of being sults and on the outcome of that the was doing fine; but to this remark he in favor of the flea.

During the third night of my stay real birdman. with the battery, about eleven o'clock, I was awakened by a heavy explosion. I started to my feet, but before I could find myself another explosion came. I use it, how to remedy its jams, change made for the surface and just as I broken cartridge guide springs, and apreached there another bang close by ply the immediate action on an empty shook me off my feet. In my hurry to drum. get back into the dugout I missed the first step and landed unceremoniously at the bottom. I flew through the sacking which serves as a door and lit on one of the gunners who slept in the corner of the dugout.

The man was so used to night bombardments that he did not mind the noise of the shells. But he thought differently of the disturbance I was His flow of language was causing. very sulphurous and included a peremptory command to shut the door. He opined that it was a shame to send a "mutt" like me down to a battery to create trouble and attract gun fire to a gang of peaceful gunners.

The battery was shelled for three nights running and I was blamed for it. Before my arrival the battery had been living peacefully enough, they said, and while they granted that I had made no deal with the Germans, they teen hours each day. still insisted that I was a Jonah. Whereupon I returned to my little two by twice corner and went to sleen.

I was put to work, however. I assisted in loading one of the big guns and special favor I was permitted to not before I left.

old tree stump to which a telephone think they don't deserve equal rights."

line had been laid. From that spot the observation man directed the fire by means of a telephone. His work con-Next morning I learned that the Hun sisted of telephoning to the battery, shrapnel had not been as innocuous as commander whether the fire was short I had imagined. There were several or high, or fell to the side of the ob-

The language of the observation post was Chinese to me at first. I could not make out what they meant by "No. 1 gun, two minutes, five degrees right."

After that No. 2 gun would take a The impression that my first flight whirl at it as the next correction indicated. That correction might be: "No. 2 gun, one minute, eight degrees far."

It was all Dutch to me, but it was interesting to watch it. I afterwards found out that the fire spotter sometimes worked in connection with airplanes when shrapnel was being used, the duties of the ground observer in that case being to determine the height I was discussing our trip with the at which the shrapnel was exploding. The aerial observer also had to report on the effect of the fire. Nobody had explained to me so far why I had been attached to the battery and nobody ever did, but I surmised they wanted me to get up some acquaintance with artillery practice. Some day no doubt, aviator was accomplished in that bat- if I lived long enough, I would have to spot shrapnel while on the wing, and Much of my life, while attached to my apprenticeship with artillery would

To observe artillery fire from above bugs had been trained to leave strang- was the very thing I wanted to do, and I made up my mind that the corrections I sent down should be as accurate as possible. With that in mind I absorbed as much of artillery technique as I could. I was anxious to get back to the Flying Squadron in the hope that I would get another flight sport while with the battery. A saucer right away. On arriving at headquara kootie and a flea. A vicious fight re- told by the commanding officer that I boys bet. The combat generally ends added that I was to keep it up and then sometime or other I might be a

The next week I spent in learning a great deal about the Lewis gun. I was taken to a range and taught how to

The gun I was handling had all the defects which I might have to overcome in the air, and I will say that my course on the range was very thorough. Later, I learned how to fix the 'double feed jam," change extractors, regulate the action of the bolt and do the many other things one has to know in order to keep a machine gun run-

I put in a very busy week, especially since in addition to my study of the Lewis gun I had to continue artillery observation practice. I discovered that spotting artillery fire while moving about on an airplane was not so simple as I had imagined. The things I was supposed to learn were piling up rapidly, moreover. By the end of the week I had also been introduced to I worked four wireless telegraphy.

(Continued next week).

#### SERVING THE COLORS.

Secretary McAdoo has a deep appreyank the lanyard a couple of times, ciation for the way in which women Then they tried to explain sighting to are responding to the country's needs. me. I heard lengthy expositions of er- In a recent speech he said: "The in elevation and the like, and wives of our soldiers, the mothers of somebody said a great deal in explana- those sons who die, the children who tion of loading, relaying, fire and what are left fatherless—they are all serving the colors, just as much as the I also learned that the fire was being men who wear the uniform, and their directed from the ground from what suffering is, in many respects, greater. the battery commander called the O. The time is coming when, if we are P., or observation post. He sent me going to have complete democracy, all up to that post with one of the spot- must have equal rights. I am surprised ters. We reached it on our hands and after all the women have done since knees and found that its site was an the war, that there are still men who



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# Boys and Woodchucks

By G. W. TUTTLE

a few hairs as souvenirs of the occa- had ignited. sion. Woodchucks have an insatiable . Another very peculiar incident oc-

and her partly grown family fed. which must have grazed her head. Straight and stiff upon a great stone her young while they ate.

One day I borrowed an old muzzleloading rifle from a neighbor. Creeping along back of a stone wall I managed to get within range of her as she and pulled the trigger. Apparently only the cap snapped.

as a coffin nail. A few grains of pow- been justifiable.

N the old New England farms der must have exploded for the heavy the boys waged constant war bullet had penetrated her heart, alupon the woodchucks. How cun- though it did not have sufficient force ning the old fellows are—all eyes and to pass entirely through her body. The nose. They will spring a boy's care-charge had undoubtelly become damp fully set trap with their nose, leaving and only a few grains of the powder

appetite for the good things of the gar- curred one day when I was using this den. They believe in meals at all same borrowed rifle. I saw a woodhours—that is. at all hours when the chuck sitting at the mouth of her hole. garden is not watched. As a boy grows It was a downhill shot and I probably older and begins to use a gun he soon shot a trifle high on that account. At discovers that it takes a lot of careful the report the woodchuck dropped, apstalking to give a woodchuck a sur- parently stone dead. I walked leisurely prise party. I remember two very pe-down to pick up my victim. When culiar incidents that happened while I about fifteen feet from her my stonewas trying to get rid of some of the dead woodchuck suddenly rolled over, troublesome woodchucks on the old took one good look at me, and then dove down into her hole. Presumably In one field an old mother woodchuck she had been stunned by the bullet,

I am not certain that our good-heartat the mouth of her burrow the mother ed neighbor really enjoyed lending me chuck would sit, standing guard for his muzzle-loading rifle. I accidentally loaded it with two charges of powder one day, and not getting another shot at the time I returned it loaded. When my neighbor afterward took a shot at woodchuck both parties escaped with their lives. After this strenuous sat on the stone. I took careful aim experience I cannot say that my neighbor really ached to loan me that rifle -that is, unless I returned it unloaded. The woodchuck disappeared, while a Strange, how little it takes to awaken very much disappointed boy walked prejudice against a boy on a farm, is over to the hole. What was my aston- it not? Had he lost some valuable ishment to find the woodchuck lying portion of his person-an arm or a leg, across the mouth of her hole, as dead for instance—his hesitancy would have

COLDWATER YOUTH IS BEST OF MICHIGAN'S JUVENILE GARDENERS.

Frederic Kibbee, of Coldwater, sixteen years of age, has been singled out by the Club Department of the Michigan Agricultural College from among 30,000 other boys and girls as the best boy gardener in the state. The award is for work done by him in the season of 1917, for owing to the diffiulty of securing reports from the many thou-



Frederic Kibbe, Best Boy Gardener in the State.

sands of youngsters in every part of the state, choice of the winner was delayed until all could be heard from. The Coldwater boy will hold his crown until 1919.

Taking up gardening to aid in the food campaign, Frederic tilled a garden three-quarters of an acre in extent, and from this he harvested produce which sold for \$190. Of this amount ing to his account, \$113 was net profit.

"Peas and radishes were my big crop," he declares in his report. "I am going to specialize more this year, and for one thing, I am going to raise more

#### MY STORY.

Our club was organized last year. Mr. Markley came to our school to see if we boys would like to have a handicraft club to learn to build things. He asked our teacher if she would like to have us learn and if she would let us

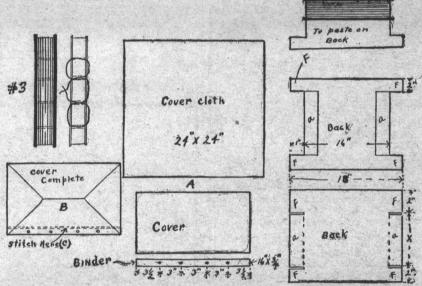


Carl Boyea, State Handicraft Club Champion.

the cover and binder in position, as Cut slits one inch deep on each side week to do manual training. After he shown in illustration (A), and fold the two inches from the ends, fold and had asked the teacher he came to us cloth and sew or glue tightly as in glue center laps (A). Then glue over boys and asked us if we would like to (B). Then stitch tightly between the the back of the volume and binder join. We all agreed that we would like cover and binder as at (C). Next with sticks, turn flaps (F) inside the cover to join. So he said he would come and

through the center of the binder three A six months' index of the Michigan The mothers' club bought our tools inches apart and three and a half inch- Farmer appears in the last issues in free. We were glad to have them furnished free, but we were still more

# Boys and Girls Try This



Cut out two pieces of heavy cardboard azines. a punch and hammer punch four holes and glue and you have a bound volume help us boys every week. es from each end; measuring from the June and Deecember.

Here is a binder for "The Michigan bottom, punch similar holes half an Farmer" that any boy or girl can make. inch from the back on all your mag-

sixteen inches by ten and a half inches Now using a stout cord or picture for the sides or covers, and four pieces wire, thread through these holes and sixteen inches by three-quarters of an through the binder strips, as in illusinch for the binders. Glue the binders tration No. 3, tie the ends tightly at together in pairs. Next cut out your the center. Next cut a piece of canvas cloth in two pieces twenty-four inches eighteen inches by the thickness of by twenty-four inches. On these lay your book, plus five and a half inches. have part of one afternoon off in each

glad when they furnished our mate- for wages. That farm home has in a rial free.

thing I made was a Ford jack. A Ford jack should be made of hickory wood. Why I chose the Ford jack is because its many advantages, and give the boy we have a truck at home that I can or girl a chance to learn that the farm jack up and pump the tires full of air

The second thing I made was a trap nest. A trap nest is to catch chickens in to test which ones lay the most eggs.

The third thing I made was a broom holder. A broom holder is to hang the broom in so that it isn't always falling down when I open the door to get out.

The fourth thing I made is a milk stool so that when I go to milk our cow I can sit on a good strong stool without breaking down, or so I don't always have to hunt for a box.

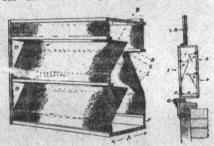
The fifth thing I made is a fly trap so that the flies are not always around me and lighting on my face when I am

The things I would like to make next year are a cultivator, self-feeder, and fireless cooker, but I don't know whether I will or not.

We have a good place to work in, it is in the basement of our school. The floor is nicely cemented. There are Kenneth Ousterhout, State Champion four windows in it and also a furnace. My age is twelve years.—Andrew Feringa, Grand Rapids, Mich.

#### HOW TO MAKE A FLY TRAP.

The trap is essentially a screen box closely fitted to the frame of a window, as shown in the accompanying drawing. The thickness of the box at A should be about twelve inches. Instead of the screen running straight down over the box on either side it is folded inward nearly to the center of the frame in V-shaped folds running across the window. One, two, or even more folds may be made in the screen on of forts is one coming into favor beeither side. The upper side of the cause of its timeliness. If the game is fold B should extend toward the cen-played in a hall have small tables ter almost at right angles with the



sides of the trap, or parallel with the ture may be added by providing a tent trap fitted in the bottom of the box. A and a pencil and is allowed to select tent to attract flies.

E. W. GAGE.

#### BOYS' AND GIRLS' FARMING.

not been interested in the farm they bell announces the game over and each will likely leave. That means the end player keeps the "fort" at which he is be on it will likely be in town working names of the forts visited.

measure been a failure. Give the boys After we had our material the first and girls on the farm recreation; a social center is one solution. them a good consolidated school with produces things of value to them by letting them have a pig or a calf or



Poultry Club Member in 1916.

acre to care for as their own and to market as their own and then have the proceeds to spend as they choose. This develops the ownership idea and the spirit of independence. When the boy or girl is given nothing to raise and market as their own, the hired man or dependent attitude is too often developed.-W. C. Palmer, N. Dak. Ag. College.

#### THE GAME OF FORTS.

Where cards are not played the game (card tables) placed in two rows down the room. If played at home, stands and larger tables can be utilized or a broad window ledge will hold a "fort." An easy way of making a fort is to take a thin piece of cardboard, red, white or blue is preferable, four by six inches in size, and folding across the middle crosswise: then thrust a tooth pick through the middle of the bottom edges and your fort, log cabin shaped, will stand up quite as well as though more time had been given to its construction. In the top of each "fort" top and bottom; lower side C should put a tiny American flag and to the slant downward as shown in the draw- top of it attach a tiny strip of white ing. The sides of the frame may be cardboard with the name of the fort cut out at the proper angle and the printed upon it. There must be a "fort" pieces D returned after the screen has for each player and names can be sebeen tacked along the edges. Along lected from the following list; Washthe apex (inner edge) of each fold is ington, Ticonderoga, Sumter, Stanwix, punched a series of holes E about one- St. Louis, Pitt, Myer, Orange, Neceshalf inch in diameter and one inch sity, Nassau, Moultrie, St. Marie, Monapart. The pieces of the folds on eith- roefi McHenry, Loyal, Lee, McAllister, er side of the window should not be Edward, Cumberland, Dubuque, Slodirectly opposite. A narrow door F cum, Scott, Bird, Smith, Dodge, Wayne, opening downward on hinges should be Tottem, William Henry, Ethan Allen, made on one side of the trap at the Crown Point, Ellsworth, Oglethorpe, bottom for removal of the dead flies. Sill, McPherson, Nicholas, Tompkins, The entire trap is fastened to the win- Hamilton, Niagara, Riley, Pulaski, Redow by hooks so that it may be readily no, Sam Houston, Wright, Ontario, taken off. An additional trapping fea- George, Worth, Porter, Green, Charles.

Each player is given a sheet of paper narrow slit is left along the base to his own fort. He is then given five allow the flies to enter beneath the minutes in which to write as many tent. Bait may be placed under the words as possible, using only the letters used in the name of the fort. For example, Fort Henry-hen, her, rye, are the only words that can be formed, but Fort Tompkins will give Tom, Tim, on, in, mop, skip, sin, simp, skin, sink, Farming is fully as much a boys' and stink, stomp, stop, skim, nip, and probgirls' problem as it is a problem of pro- ably many others. After a half hour duction. If the boys and girls have or longer if interest does not lag a tiny of that farm home in ten or twenty then stationed, as a souvenir. A flag years and a tenant will likely follow may be given as a prize for the one on the farm, and the ones who should having made the most words from the

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The Michigan Farmer, Detroit, Michigan.

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# Why We Must Send Wheat Overseas

loaf. They must have bread ,and they loaf. must have bread which will keep sweet and palatable for several days.

raised bread loaf.

the front from bakeries behind the Workers in the war factories must

have bread from commercial bakeries, heavy labor. The women in the factories can not be bakers also. Their bread must be the durable raised loaf.

All France depends on the bakeries how to bake in the home. They have no ovens for baking, nor could they afford fuel for them if they had.

proportion of the wheat grain is now them in health and strength. put into the flour than formerly was

ever, for wheat. They ask it as the from other cereals as can be used and and bread be there every day. They necessary basis for their necessary still permit the making of the raised depend upon America.

be sold until it is twelve hours old, so Italy and Belgium. These cereals ing to the age and occupation of each They are unable to cook them properlines; it must be a durable raised loaf. person. A child has less than an adult; ly. They must have wheat to mix with

Of the average Frenchman's normal we are only meeting the minimum refor its bread. The people do not know other foods. France has just put her share their present wheat supply. whole people on a rigorous bread ration which limits them to only two-today between ourselves and the Allies. thirds of the amount they have been We must not use before the next har-Al the bread of France and England accustomed to. In all the Allied counvest more than one-half of the wheat and Italy today is war bread. It is tires they are using as little wheat as we have. Even with one-half of our made of gray wheat flour, milled at a will give them bread at all and as little wheat the loaf of the Allies is small. high extraction rate; that is, a larger of this bread as is possible to keep It can not be made smaller without

grain, parts which formerly were sep- ing in line long hours before the relief wheat and send wheat.

HE Allies ask America for wheat, arated from the flour and used as feed kitchens. They have stood in these rye, corn, barley, and oats, and for animals. This flour is then mixed long soup lines every day for three and we are sending them in large with as large a percentage—usually one-half years. But they do not comamounts. They ask us especially, how-twenty-five per cent-of flour made plain. They only ask that the soup

We are sending corn and cereals In England this war bread can not other than wheat, to England, France, Wheat is the basis for the durable that the people won't be tempted to are shipped as fast as they can be eat too much fresh bread. In France used. But the people can not live on Troops must have bread carried to and Italy the bread is rationed accord- them alone. They do not know how. a light worker less than one who does them and with potatoes to make their bread. We are now sending wheat to France has always lived on bread. the limit of our cargo space, and yet diet fifty-two per cent is composed of quirements of these people. In order bread and but forty-eight per cent of to continue doing this, our people must

We are dividing our wheat evenly undermining their strength and mor-The people of Belgium are living on ale. Is there any doubt what we shall the case. Their flour now contains a relief ration. Over 1,000,000 of them do in this emergency? We have just more of the outer parts of the wheat get their daily bread and soup by stand- one thing to do, and that is to save

# Include Vegetables In the Child's Diet

CHILDREN must have plenty to food of the growing child. Milk should At this moment, also, people are bemeals a day, the heaviest one being in the middle of the day. Their day's food should include plenty of milk, not less may be used if butter is given alsoplenty of cereals and green vegetables, particularly leaf vegetables, such as fowl, in the daily meals. Information regarding these matters will be furnished to mothers if they will write to D. C.

er for milk or green vegetables in the ter into the diet of young children.

be given to children.

eat. Adults can get along for be given in many forms. Spinach is ing urged to eat all the potatoes possisome time, if necessary, on no- one of the best of green vegetables. It ble as another substitute for wheat. ticeably restricted diets without ser- can be prepared in a number of ways The request is made that families shall ious impairment of health, but chil- and should be used freely in the daily eat potatoes three times a day but this dren can not draw on their reserves in diet. Fish and chicken are better for is not intended to apply literally to the this way without detriment to their children in many cases than beef or youngest children, who would not get growth and vigor. Children from two other meats, and where these foods a sufficient variety of food in the day's to six years should have three good can be obtained one or the other may meals if given potatoes at each one. The manner of cooking potatoes must In the face of the great need for con- be constantly varied or the family will serving wheat the use of new cereals tire of them. The methods will inthan one and a half pints-skim-milk has become a matter of necessity. clude frying and scalloping, delicious There seems to be no reason why such to the adult palate, if well done, but food may not be as wholesome as not suitable to young children. It is wheat, if properly cooked. Mothers wise, therefore, for mothers to rememspinach. It is desirable also to have a may need to be warned that all cer- ber that children under five will hardly more varied diet and to include sugar, eals, and particularly the coarser ones, be able to eat potatoes more than once fruits, eggs, and meats. with fish and like oatmeal and corn, need very long a day, and that for them this vegetable cooking to be suitable for children. is better when baked, mashed, or fresh-Therefore it stands to reason that the ly boiled and served simply with the "quick" breads and griddle cakes, addition of a little salt and milk or the Children's Bureau, United States which have been exposed to cooking cream. Thus prepared they are so Department of Labor, Washington, heat perhaps only a few minutes, will completely cooked and so finely dividnot be well digested and that all prep- ed that children do not swallow them Authorities on the subject state that arations of cereals should be subjected in chunks. Frying, on the other hand, there is practically no substitute, eith- to long slow cooking if they are to en- makes foods generally less suitable to the digestion of children.

#### EVERYWOMAN'S CANNING BOOK.

charge of a canning kitchen last year, conducted by Mrs. Augustus Hemenway in Boston, to take care of the surplus from war gardens. She gives careful and comprehensive directions for canning everything from the first stalk of rhubarb in spring to the last fall fruit, and includes, besides, methods of canning meat and fish. Miscellaneous relishes and old family recipes contributed by Boston women who worked in the kitchen last summer are given a chapter, and there is also a chapter on the drying of vegetables and fruit.

#### MICHIGAN FARMER PATTERNS.



No. 2483-2381-Ladies' Costume. The blouse is cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. A valuable book for every home canner is "Everywoman's Canning Book," (Whitcomb & Barrows, Boston), by (Whitcomb & Barrows, Boston), of 44-inch material for a 24-inch size. The skirt measures about 21/s yards at the foot. Two separate patterns, 10 cents for each pattern.

No. 2461—Splendid Style for Sports or Outing. Cut in three sizes, 16, 18 and 20 years. Size 16 requires 6¼ yards of 44-inch material. The skirt measures a little over 1½ yards at the foot. Price 10c.

Fasten under the lower shelf of the pantry the frame on which the extra boards of the extension dining table come and slide the boards in. they take up no extra space and are always at hand .- Mrs. J. J. O'C.

# This Year's Chicken Crop

By J. A. KAISER

section under immediate observation poultry yard has been emptied entirely are very similar to conditions in the of its feathered occupants. ations, results are the same.

of this year's chickens. Thousands of consumption. farmers found themselves at the end of winter without a bushel of corn. at once becomes evident that this With many the tendency was to cut year's chicken crop will be very short. down the number of hens and to cur- When farmers and other poultry raistail materially the number of young ers do not even put their incubators in chicks. The writer knows from per- operation; when steps are taken to resonal observation, that this has actual- duce the flock of hens already in posly been done by a large number of session, and when, nearly everywhere, farmers. A few of the wiser ones still there is an avowed purpose to raise possess their flocks in undiminished less chickens than formerly, there can numbers, and are raising this season, be but one result. This situation must the usual number of chickens. These mean fewer chickens in the autumn, few are looking into the future. They and fewer eggs next year. That such know that the decrease in the number a program is not in harmony with the of chickens must inevitably result in regulations for food preparedness, is, even higher prices than at present. of course, evident. The falling off in They know, too, that growing crops the chicken industry is a natural conwill in a few short weeks alleviate the sequence of prevailing conditions. In grain situation.

of young chicks is noticeable on the and probably is, short-sighted. In these farms, it is even more noticeable in the days of food shortage the situation is towns, where there have been, of late serious enough to be worthy of attenyears, many poultry raisers. For a tion. After four years of war, condinumber of years prior to the entrance tions are such that any time, with a of this country into the war, there was failure of certain crops, we must face a tendency for village and city dwell- a world famine. Certainly it is not ers to embark in the poultry industry. Wise, in the light of such a possibility, Some of them went into the business to permit a decrease of production on a large scale, and with fair success. along any line.

WITH the advance of the season, Thousands of village and city residents a marked decrease in the num. a marked decrease in the num- were owners of small flocks which ber of young chicks being rais- produced eggs and chickens for home ed, compared with former years, has consumption, and often in addition become evident in the writer's section. eggs and chickens for the market. But Indeed, this situation exists over large this year the tendency among these areas, and it seems very probable, over poultry raisers is very decidedly to cut most of Michigan. Conditions in the down the flock. In some instances the

state at large, and hence we have a In the case of these town residents, right to conclude that with slight vari- too, the explanation is found largely in the scarcity and high price of grain. In an attempt to account for the big Eggs and poultry are high-priced, it is falling off in the number of chickens, true, but the advance has not been so one factor looms large and may be con- great as in the price of grains. Taken sidered as foremost in producing the as a whole, the output from these town his has to do with the poultry yards is very considerable, scarcity of grain. To get at the root both in eggs and chickens. They help of the matter, the partial failure of the solve the food problem, even in cases corn crop last year has had a direct where the flocks are so small that they bearing on the decrease in the number can provide products only for home

In the light of the foregoing facts it the case of the farmers, at least, the But if the falling off in the number policy of curtailing the flock may be,

# Change Hens' Diet for Summer

months of June, July and August, and one part by weight of ground oats. should give careful consideration to try Husbandry of M. A. C.

"After a hen has laid heavily during the winter and spring," he says, "she should be fed a food richer in protein, for if she does not receive food containing the elements from which eggs making material.

spring ration. A moist mash should take care of themselves for the winter. Do not stir the moisture in with a stick the present. Too often the late-hatchor spoon.

and third crops of leaves.

can be made up of two parts of shrunk- favorable weather of spring months. en wheat (unmillable) and one part of Attention must be vigorous as regards cracked corn (by weight), and one lice in the later hatches, as the hotter

one part by weight of wheat bran, one than the well-known insect powder for part by weight of corn meal, one part this, as it is harmless except to insects.

Barred Plymouth Rock eggs for hatching from full blood stock prize-winning strain \$1.50 per 13.

J. A. BARNUM, Union Oity, Mich.

The poultryman who aims to keep by weight of gluten meal, one and one his hens laying their best during the fifths part by weight of meat scrap

"Feed the mash dry, and once per what he feeds his flock, avers Prof. C. day feed it most. Remove the hens and H. Burgess, of the Department of Poul- market them as soon as they begin to molt."

#### CARE OF THE LATE HATCHES.

BY ELLA E. ROCKWOOD.

A late hatch in the poultry yard is are made, she must draw upon the tis- not usually to be encouraged. Howsues of her own body to furnish egg- ever, as such things will occur occasionally it is better to take extra pains "To make the summer ration five per to push the little things along as fast cent of protein should be added to the as possible to a point where they can be fed once a day, the moisture being rather than by neglect cause an unrubbed into the mash with the hands. necessary loss, especially in years like ed chicks are left to shift for them-"Plenty of succulent feeds should selves at a season when they can harded oats. It is often worth while to nourishing food, milk, either sweet or plant a good patch of Swiss chard for sour, and a good warm coop at night, summer feeding, for there is no green will cause them to develop very rapber that can compare with this green tember will pay for raising this year.

Coas, paniel, Rocks, Cappingtons, Wyandottes, Campines, Minorcas one year old-pullets, now laying, that will give eggs thru this Summer and next Winter and heat this light eggs thru this Summer and next Winter and heat the light make fine breeding stock for next Spring. Spring. Spring. Spring. Spring orders now at a 22 for 18; the property of twenty-five. Black Minorcas one year old-pullets, now laying, that will give eggs thru this Summer and next Winter and ne also be fed, such as lettuce and sprout- ly be expected to do so. Plenty of good for coloring the yolk and keeping hens Since a turkey usually hatches two HOMESTEAD FARMS, Bloomingdale, Mich. healthy. Besides, if the tops of the and even three broods in a season if chard are cut, it will produce second allowed to do so, it will be found that later on the mortality in the flock will A grain ration for June and July not be so great as during the more unpart of soaked oats (by weight). the weather the more these pests seem "A mash ration can be made up of to thrive. There is nothing better

1898-1908-1918

Three Signal Years in American History

1898-War with Spain! Humanity and liberty brought by America to oppressed Cuba and Philippines, the United States taking its firm place as a world power.

1908-Peace and prosperity! Ameri-ca's battleship fleet, "Ready for a fight or a frolic," as Ad-miral "Bob" Evans remarked, gone on its 45,000-mile, around-the-world cruise, pointing out to all nations the fact that we had become a power to be reckoned with, and a cruise which European experts said could not be completed. But

it was! 1918-America in the Great War, throwing its every energy into the combat to make the

world a decent place to live in. In 1898, TRUMAN H. NEWBERRY, one of the organ-izers of the Michigan Naval Reserves, served through the Spanish war as a lieutenant on the "Yosemite," which was manned by Michigan's Reserves.

In 1908, TRUMAN H. NEWBERRY prepared the battleship fleet for its famous cruise and from assistant



Truman H. Newberry

Secretary of the Navy in the Roosevelt cabinet.

In1918, TRUMAN H. NEWBERRY, again a volunteer, a Commander in the Third Naval District, including New York City and Brooklyn navy yard, the most important naval division in the country.

A man of national distinction, of unflagging devotion to his country, of able service in peace and war, of high character, genial, approachable and sympathetic, TRUMAN H. NEWBERRY is a man on whom not only all Republicans but all the people of Michigan can unite.

In this crisis, the office demands the ablest and most experienced man available to help conduct the nation's affairs. TRUMAN H. NEWBERRY is such a man. Every Michigan voter can support his nomination and election with confidence in his record, his ability and his

# NEWBERRY

United States Senator

(Advertisement)

#### POULTRY

the chicks hatched by

your hens cost you 22 cents each?

They do. Let us prove it to you. We will hatch your eggs at 5c per chick hatched, and for less if you get a poor hatch.

We furnish container for eggs to be sent us and boxes for your chicks. Both sent parcel post.

#### Our Capacity --- Two-thirds of a Million or 40 Tons of Eggs Every Three Weeks

We also sell purebred Barred Rock, White Rock, White Leghorn, Brown Leghorn, Buff Leghorn, White Wyandotte, Rhode Island Red, Black Minorca and Ancona chicks. Lowest Prices. Safe delivery and satisfaction guaranteed. Send for catalog.

THE SMITH STANDARD CO., 1967 W. 74th Street, Cleveland, Ohio

# HOMESTEAD FARMS

There is still time to raise strong, hearty chickens, if you will send your order now. Orders can be filled in from a week to ten days. Order pure breed free range stock: Barred Rocks; R.C. and S. C. Rhode Island Reds; White Wyandottes; S. C. White and Brown Leghorns, S. C. Anconas. Also eggs for hathing from these breeds.

Pullets and Hens

#### BARRON ENGLISH 240 EGG

strain White Leghorns. Heavy winter layers. No better Leghorns in laying ability, type, size and very vigorous and hardy. Bred to lay and pay. No SHOW stock. Winners at all laying CONTESTS. 1000 yearing hens for sale at \$1.25 each. Special summer prices. Also 3,000 pullets at \$1.50 each and up, as to age. 1,000 choice breeding oockerels March hatch large vigorous males from 256 egg-bred hens for next year's breeding pens, buy NOW and save money. \$1.25 each special prize if ordered now for Sept. delivery or later. Write us your wants and send for circular. Devries Leghorn Farm & Hatchery, Box 222A, Zeeland, Michigan.

#### Chicks Chicks Chicks 250000 for 1918

Hatched for Cents Each

Conts Each

Do you know that

Cents by the same statement of the

Hubers Reliable Hatchery, 333 West Fremont Street, Fostoria, Ohio

#### **BABY CHICKS**

\$5.50 per 50; \$10 per 100. S. O. White and Brown Leghorns. Bred for egg production. Safe afrival guaranteed, Express or parcel post. Catalogue free. Wolverine Hatchery, Box 202, Zeeland, 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.

Baby Chicks by Parcel Post. Bred-to-lay S. C., \$12 per 100. Barred Plymouth Rocks \$15 postpaid. Hatch every week. Order direct from this adv. Sunnybrook Poultry Farms, Hillsdale, Mich. 6. G. Burroughs. Prop.

BUFF Leghorns—All stock and eggs at reduced prices for the remainder of the year. Buy now for next year. Dr. William A. Smith, Petepsburg, Mich.

BRED-To-Lay S.C.W. Leghorns and Barred Rocks. BEggs, \$1.25 for 15, \$2 for 26, \$3.50 for 50, ALPINE POULTRY FARM, R.2, Grand Rapids, Mich.

Chicks from our Bred-to-Lay White Leghorns. Fer-ris and Young strains \$12 per 100: from our Barred Rocks. Thompson strain, \$18 per 100. RUSSELL POULTRY RANCH. Petersburg, Mich.

Choice Chicks; June and July Brown of the American Street, White Leghorns at 14c, heavies at 16c, Also Minoreas, Anconas and Buff Leghorns at 16c. Grescent Egg Company, Allegan, Mich.

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

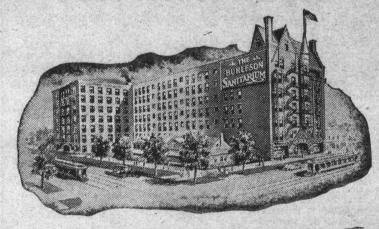
A real heavy laying strain, trapnested I'vears, records from 200 to 264 eggs. Ge our special summer prices on yearling heap old pullets and day old chicks. We ship C. O. D. an guarantee results. Catalog gives prices; describes stock; tell all about our farm and methods; results you can get by breed ing this strain. Send for your copy now—it is free.

GEORGE B. FERRIS 934 Union, Grand Rapids, Mich

IMPROVE YOUR POULTRY My Bred-to-lay Young's Strain S. C. White Leghorn and Ancona chicks are great money-makers. 100,000 strong, husky chicks @ 311 up per 100. Chicks sent by mail. Arrival and satisfaction guarantsed. Prompt shipment. Get my catalogue at once. W. VAN APPLEDORN, R. 7. Holland. Mich.

Additional Poultry Ads on Page 739

# Piles Cured Without the Knife



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

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

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

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

Flanders Farm, Orchard Lake, Mich.

CATTLE.

# Wildwood Farms

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

Several young bull calves on hand, three of which Several young buil 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 mading and pedigrees. Every animal BRED IN THE BREED BY THE BROWNERS. TO INTERNATIONAL WINNERS. HOUSE OF TAKEM

For Sale-Two Guernsey bull calves born re-spectively March 22 and April 7, 1918, grandsons of "Spoiswood Daisy Pearl", great-grand-sons of "May Rose King", very strong in "May Rose" blood on both sides, nicely marked. Edward Lowe, Michigan Trust Building, Grand Rapids, Michigan.

Registered Guernsey helfer born Oct. 1917.
Her half slster has record of 479
lbs, fat and nearly 1000 lbs, milk wich first calf. Also bull calf eligible to register. Cheap.
G. A. WIGENT. - Watervliet, 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. R. breeding, herd tuberculin tested.
T.V. HICKS, Battle Oreck, 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.

Guernseys 15 Registered head, all th tested. Nors's heads our herd, Bo fh is half sisters soid averaging 1850 each. His bull calves are booked ahead at reasonable prices. Avondale Stock Farm. Wayne, Mich.

For Sale Registered Guernsey bull cal-younn EBELS, R. 2, Holland, Mich.

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

### CLUNY STOCK FARM

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

Write us your wants.

R. BRUCE MCPHERSON, 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

OAK Leaf Farm. Herd sire Lenawee Pontiae Cal-amity King offer Registered Holstein bull calve from A. B. O. cows and the above sire whose dam hold the milk and butter record in the state of Ind. 'A days milk 7963, butter 22.51—315 days milk 23782.3. butter 926,775. E. H. GEARHART & SON, R. 4, Marcellus, Mich.

bulls, and give your herd a "push" Full descriptions, prices, etc. on request.

McPherson Farms Co., Howell, Mich.

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

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

\$50 Liberty Bond gets 1 mo, old grandson of Pon-tiac Maid 301-5 lb. Other granddam sister to grandsire of 42 lb. 4 yr. Herd free tuber. Apr. adv. fee females. Terms. M. L. McLaulin, Redford, Mich.

Guernseys—2 Registered bull calves. Good breeding, of the best, and at prices within reach of l. Write, payment. Hicks' Guernsey Farm, Saginaw, W.S., Mich. GEO. D. CLARKE, Vassar, Mich.

# Letters from Our Readers

KIND READER:-

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

THE EDITORS.

#### KEEP TAXES DOWN NOW.

As the editor has kindly offered space to subscribers for discussing the farmers at Greenville are receiving questions of interest to those engaged from fifty to sixty cents per hundred in agriculture, and as excessive taxa- for their potatoes, while at Detroit the tion is one of the paramount causes same potatoes are selling at from \$1.10 for dissatisfaction to the rural dweller, to \$1.16 per hundred. The Food Adwould it not be well to get the attitude ministration seems to think this is only and opinion of this class as regards a just profit for the middleman and the proposed expenditure at this time the railroads, but what puzzles me is of a large appropriation that was made if this is just, where does the man that by our last legislature for the purpose raises them get off at? We pay our of building additional office facilities groceryman eight cents per pound for at Lansing to accommodate the state's rolled oats, or \$2.56 per bushel, and bebusiness requirements. Eight hundred sides, the manufacturer turns the oat thousand dollars was roughly estimat. hulls into feed at a still greater profit, ed at that time to furnish the fund, and the highest price paid farmers for \$200,000 to be raised annually, but it is oats at this point at any time this year now estimated that owing to increased is niney cents. We keep a farm book value of material and labor it will cost every year and try to keep in touch perhaps \$2,000,000 to complete and fur- with where we're at, but, like F. D., we nish the proposed structure. Two an- find it's enough to drive a Jew peddler nual levies have already been collected to insanity to try and make both ends and turned into the treasury and at a come out even and keep our credit recent meeting of those appointed to with our banker and dealer good, and look after the matter the consensus of we have not ventured to buy an autoopinion seemed to be in favor of using mobile yet, taking our turn at milking the money on hand for the purpose of the cows night and morning and then starting the work in the near future, finishing up a few odd jobs that have and depending on the next legislature been left over during the day, after a to make additional appropriations to hard day's work, for our recreation. complete the work regardless of cost. It appears that the \$400,000 that has ing to burn the candle at both ends; been collected could be turned in to the but with help scarce and your credit general fund and used for other pur- constantly in mind, what are you going poses. Now, the question is, do the to do about it, especially when you taxpayers propose to look on with in- have no other help on the farm. Howdifference and allow themselves to be ever, the solution A S. offers sounds mulcted in this way. At a time when good to me and I hope to read the opinfarmers are compelled to let all im- ion of many others through the Michiprovements go for the purpose of get- gan Farmer.—E. J. Stewart, Owosso, ting the mere necessities of life and Mich. meeting expenses that cannot wait, it would seem that this would be a good time for our farm papers to get busy and start something that would be greatly appreciated by the already overburdened taxpayers of the state of Michigan.—J. B.

#### FARMERS NEED RECREATION.

I was glad to notice that our Michigan Farmer had given a page of its paper to complaints and to the betterin farming, and that is recreation. The aid your inquiries, it is invaluable. I backed up by many generations of ery description and has but very little year and read it, without saving by its backed up by many generations of the suggestions from six to ten times its large producers. Buy one of these or no recreation, and so turns to the suggestions from six to ten times its large producers. A mere recipe from the Michigan automobile and pays a profit of from cost. A mere recipe from the Michigan automobile and pays a profit of from cost. facturers do not think it worth while year. A virulent disease attacks your clear at least twenty-five per cent, and turn over the index of your Farmer many at the present time are making and find all the known remedies deenormous profits on huge war con- scribed." tracts. I have often wondered what kind of a noise we would hear from our city consumer if the farmer was guaranteed a profit of twenty-five per

buy have doubled and some trebled in price.

I notice by the Michigan Farmer that

Now, I hear someone say, "he is trying to burn the candle at both ends;

#### EARLY PRAISE FOR THE FARMER.

In browsing around recently at the state library in the Capitol at Lansing, we came across a book entitled "Transactions of the Michigan State Agricultural Society in 1849." This society was organized at Lansing on March 17 of that year, and its first president was Governor Epaphroditus Ransom, of Kalamazoo.

Joseph R. Williams gave an address ment of its farm friends. I read all the before the agricultural society of Kalarticles with a great deal of interest amazoo county on October 11, 1849, in but was especially interested in the which we find the following paraarticle written by F. D., of Galien, for graph: "The prejudice against book the reason that this has been my own farming is still strong. If you study experience in farming. In A. G.'s arti- the book in order to find how many excle he says that many people think the periments you can try, how many novfarmer is getting rich because he has elties you can run after, the book is bought an automobile. Let me say for you a bad guide. If you seek its that here is one of the main drawbacks counsel to save you from error, and farmer labors faithfully combating the venture to say that few men have takelements, insects and drawbacks of ev- en an agricultural paper for a single two hundred to three hundred per cent gan Farmer will often save your wife to get it. I have read that big manu- five times the value of the paper in a to risk their money unless they can sheep or cattle or fruit trees and you

Carry a few tools to the field each day and save trips to the barn.

#### Missed the Paper.

cent on his investment. Of course, the farm products are high at present, and the farmer is handling a lot of money, but what good does it do him when most of the farm supplies he has to tion."—J. P. P., Sherwood, Mich.

# FLANDERS FARMS DISPERSION SALE

65 Head Holsteins, Orchard Lake, Mich., June 26, 1918

Never before in the history of Holsteins has a herd of the quality of Flanders Farms Herd been offered for sale in the state of Michigan. The breeding is AAA1 and there is not a poor individual in the sale. The only cripple in the herd has been sold for beef. Don't come to this sale looking for a lot of culls. You won't find them at Flanders Farms. Mr. W. E. Flanders, the owner, has long been known in the automobile world as the builder of the best. He would have nothing to do with anything that was cheap or of inferior quality. The same is true with regard to his herd of Holsteins. "Nothing but the Best" has been his motto in building up his herd and "Nothing but the Best" is what you will have an opportunity to buy at this sale.

The entire herd of sixty-five will be sold including:-Three thirty pound cows in calf to King of the Pontiacs Segis.

Six daughters of thirty pounds cows. A twenty-nine pound three-year-old together with her twin bulls and yearling daughter sired by King of the Pontiacs Segis. All but two that have freshened have A. R. O. records. Forty are from A. R. O. dams. Twenty daughters and a dozen sons of King of the Pontiacs

Every one of breeding age in calf to King of the Pontiacs Segis. The entire herd has been under Federal Inspection and every animal over six months of age will be GUARANTEED FREE FROM TUBER-CULOSIS FOR SIXTY DAYS.

# If You Want Good Holsteins Attend This Sale

For Catalog Write to

Flanders Farms Orchard Lake, Mich.

Liverpool Sale & Pedigree Co. Liverpool, N.Y.

CATTLE

# Stonyhurst Stock Farm

Has a few fine bulls for sale. Are offering one this week from a 21.79 lb. Jr. 4 and sired by Pet Johanna Sir Hartog whose daughters are just coming freshone at 24 years has a 25 lbs. record.

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

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

# The Pontiac Herd

"Where the Champions come from"

Offer Bull Calves sired by sons of Pontiac Koradyke, Hengerveld DeKoi, Pontiac Dutchland, or Admiral reld Dekol, Fontiac De relective.

De you want a Pontiac in your herd?

Pontiac State Hospital, Pontiac, Mich.

# **HOMESTEAD FARMS**

A Federation of Interests Hotsteins - A herd of high class Holsteins; Young Bulls, Calves, Bred Heifers and cows.

Will you write to us for full description and photographs?

HOMESTEAD FARMS, Bloomingdale, Mich.

### The Traverse Herd Great Values In Bulls

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

TRAVERSE CITY STATE HOSPITAL, Traverse City, Michigan.

# Want Yearly Kecords!

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

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



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

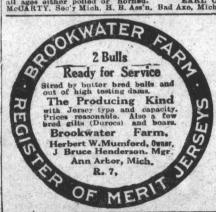
H OLSTEINS of quality. Bull calves from dams with records high as 31 lbs. in 7 days. Also collie pupples. E. A. HARDY. Rochester, Mich.

Holstein calves, 25 heifers, 42 bulls 15-16ths pure, such crated for shipment anywhers. Buy only the best, EDGEWOOD FARMS. Whitewater, Wis.

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 C. McGARTY, See'y Mich. H. B. Ass'n, Bad Axe, Mich.



Choice Bulls ready for service. Also heifers for sale. Strong in the Blood of Royal Majosty. Come and see them or write for particulars. THE WILDWOOD HERD; Alvin Balden, Capac, Mich., Phone 143-5,

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

For Sale Jersey Bull Goldie's Foxhall No. 161985. 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 heifers, all of solid color. NEWMAN'S STOOK FARM, R. I. Marlette, Mich.

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

The Holstein-Fleefan Association of America. But 184. Traitiebens, vt.

Jerseys for sale Ready for service bulls St. Lambert. Rateigh Majesty, breeding. WATERMAN & WATERMAN Meadowland Farm. Ann Arbor, Mich.

Year Old Jersey Bull. Ready for service, High producing stock registered and delivered \$40. Send for photograph. Fenton, Mich. JAYNE HILL FARMS,

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

Shorthorns Scotch and Scotch Topped ani mals of both sex for sale. Prices reasonable. GEO. D. DOSTER, Doster, Mich.

# For Beef and Milk.

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

BIDWELL STOCK FARM,
Box B, Tecumseh, Mich.

# 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.

G. H. PRESCOTT & SONS,

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

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

Shorthorns. Three scotch bulls ready for service. Price reasonable.

W. B. McQUILLAN, B. 7, Howell, Mich.

Shorthorns Maxwalton Monarch 2nd, 387322 half prother to 5 Grand Champtons in service. JOHN SCHMIDT, R. 5, Reed City, Mich.

ON of Harthorth Welfare heads our herd of milk-ling Shorthorns Comprising Chiffley of Clay bred cows, young bulls ready for sale and service, write us Liddel Bros.. R. 2, Clinton, Mich., Macon Phone. Shorthorns Fourvery desirable heifers 17 to 21 months old, and bull 8 mo. All roans. Price \$190. S. E. BOOTH, Morrice, Mich.

Shorthorns - Sired by a grandson of Cyrus Clay. No stock for sale. OOLLAB BROS, R. 2, Conklin, Mich.

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

J. B. HUMMEL, Mason, Mich. Maple Wood Shorthorns Two promising bull calves, train. Harter & Easton, Jenison, 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. Maxwaiton Sutton and White Hall Sulton by the Oscola Co. Shorthorn Breeders Ass. JOHN SCHMIDT, Soc. Reed City, Michs

Grand Traverse Shorthorn Asso. Reg. stock for M. E. DUCKLES, Sec.. Traverse City, Mich.

Cattle For Sale
2 Loads feeders and two loads yearling steers. Also
2 Loads fowl you any number 1, 2 and 3 years old from
600 to 1200 liss. Issae Shanstum. Fairfield, Iowa, R-3

Roan Bull Calf For Sale, 8 months old.

J. E. Tanswell, Mason, Mich.

2 Bulls Ready for Service

At Farmers' prices.

Long Beach Farm, Augusta, Michigan

# Richland Farms PLYMOUTH, MICH. BERKSHIRES

SPRING PIGS

Gladstone---Majestic---Dukes Successor breeding

#### Only a Few Left For Sale

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

DUROUS Orion Chief Perfection No. 68945, and Jen-of big type and excellent quality. All selected large type smooth sows. Thrifty, smooth, large boned spring type smooth sows. Thrifty, smooth, large boned spring gilts from these herd boars and choice sows at ver-reasonable prices. The Jennings Farms, Bailey, Mich

50 Duroc Sows and Gilts

for fall farrowing, bred to Orion's Faacy King 3385' the biggsst pig of his age ever sho a at Inter-national. I mile N. E. of town. Visitors welcome days in week. Newton Barnhart. St. Johns. Mich

Duroc Jerseys For Sale
Herd boar and spring pigs. Write Wells Parish
and Sons, R. 3, West Olive. Mich.

# DUROC JERSEYS

Duroc fall boars sired by Crimson Critic T., Satisfaction and Brookwater Principal, priced right. Bred sows all sold. M. C. TAYLOR, Milan, Mich.

Choice Duroc Jersey Gilts For Sale - Hastings. Mich. Additional Stock Ads. on Page 739



Best

Light Fair Culls

#### SECOND EDITION.

The markets in this edition were revised and corrected on Thursday afternoon, June 13.

#### WHEAT.

WHEAT.

The very small stocks of wheat are being still further depleted by exportations and domestic consumption. Relief is now in sight, however, in that harvesting the 1918 crop has already begun in the southwest. Over a considerable portion of the winter wheat states the crop is good. The present condition of the crop is three per cent above the ten-year average condition for June 1, according to the federal crop estimates which places the prospective winter wheat crop at 587,000,000 bushels. In the northern states the damage from winter-killing was much greater than in the central and southwestern districts. A year ago wheat was worth \$2,95 for No. 2 red on the Detroit market. Present quotations here are: tions here are:

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

#### CORN.

Prospects for an early resumption of exporting grain to Europe has given strength to the corn deal, and prices showed improvement early this week. The new crop is in excellent condition, although growth has been somewhat retarded by the recent cool weather. The acreage, however, is large and the stand is declared to be the best in many years. All corn meal and corn flour held in the east by jobbers has been taken over by the government. Farmers are too busy to deliver the grain to country elevators, and stocks are being reduced as a result. A year ago No. 3 corn brought \$1.74 on the Detroit market. Latest quotations are:

No. 3 corn ......\$1.45

No. 3 COTH .								
No 3 yellow							1.55	
No. 4 yellow	ě	 					1.45	
No. 5 yellow							1.30	
No. 6 yellow							1.20	
			9.9					

#### OATS.

Stand	ard							.791/2
No. 3	white							.79
No. 4	white						*	.78

#### RYE.

A slightly firmer tone has resulted from inquiries for this grain; cash No. 2 now being quoted at \$1.95 per bu.

#### BEANS.

#### HAY.

Offerings are increasing and market is dull and weak owing to an indiffer-ent demand. Present Detroit quota-

No. 1 timothy	\$19.00@19.50
Standard	18.00@18.50
Light mixed	
No. 2 timothy	17.00@17.50
No. 1 clover	12.00@13.00

#### POTATOES.

Michigan potatoes have made advances in nearly all the leading markets. This state continues to be the largest shipper of old potatoes. The supplies do not appear to have been as large as were figured a month or more ago. The condition and prices per cwt. for U. S. Grade No. 1 prevailing at various important market centers as reported by the local office of the United States Bureau of Markets are as follows for sacked stock:

Detroit (stronger)	\$1.50@1.67
Cleveland (stronger)	1.60@1.65
Buffalo (stronger)	1.75
Philadelphia (steady)	1.50@1.65
New York (fair)	1.75@1.90
Pittsburgh (variable)	1.80@1.90
Cincinnati (stronger)	1.75
Columbus (strong)	1.50@1.60
Indianapolis (stronger)	2.00@2.10
Chicago (stronger	1.90@2.00

#### BUTTER.

BUTTER.

Not a great deal of change is noted in the butter market since a week ago. Last week's receipts, however, were larger at a majority of the terminals than for the previous week, and slightly in excess of the receipts for the corresponding period a year ago. Buying for domestic consumption and for military requirements is very liberal, and the high values resulting from this outlet is keeping storage men from putting away much of the product. The Detroit market is firm with the fresh creamery extras quoted at 41½c and do firsts at 40½c. Higher market prevails in Chicago, with the creamery range at 35@42c. In New York the trade is higher with creameries bringing 42@45c. At Philadelphia western creamery stocks are up to 49c.

#### CHEESE

Cheese prices show some gain during the past week. The liberal consumption of this product is one big facsumption of this product is one big factor in maintaining a strong market at a season when the production is normally large. Prices at primary cheese markets range from 21@22½c for flats and daisies, while Young Americas bring 22½@25c. At Detroit flats are selling to jobbers at 21@24c for new offerings; Daisies bring 22½c, and limburger 21@22c. New York reports a firm trade, with whole milk flats at 23½@23¾c for fresh special, and do average run at 23@23¼c. The Philadelphia trade continues firm with full creams at 22@25c for old and 22@24c for new. for new.

#### EGGS.

While values are steady with those of last week, the situation of this trade is such that dealers are expecting the prices to go higher. At Detroit current receipts from the state are jobbing at 33½c and firsts in new cases 34c. In New York with a firm market reported fresh gathered extras bring 38@39c; dø storage packed 36½ @37½c, and firsts 34@36c. Philadelphia trade holds firm, with western extra firsts bringing \$11.40 per case. The Chicago market rules steady with firsts at 30@32c; ordinary firsts at 28 @30c; at mark, cases included 29@31c.

#### DETROIT CITY MARKET

The offerings on the city markets these days is made up almost entirely of truck crops. The markets, however, are being liberally patronized. Radishes bring \$1 per bu; potatoes 85c; ordinary lettuce 25@35c; head lettuce \$1.20@1.25; strawberries \$6.75@9 per case; eggs 45c; hay \$23@25 per ton.

#### **GRAND RAPIDS**

GRAND RAPIDS

This week and next will be strawberry time for the home-grown and a fair crop is promised, the yield depending on weather conditions. Berry prices on Monday's market ranged from \$2.75@3.50 per crate, but will very likely go lower with increased offerings. First home-grown peas started at \$4@4.50 per bushel. Pieplant has held up remarkably well, due to cold-pack canning in the homes. The few old potatoes offered sell at 60@70c. Hay is worth \$20@21.

#### LIVE STOCK DETROIT

Thursday, June 13, 1918. Market steady.

Cattle.	
Best heavy steers	\$15.50@17.00
Best hdy wt bu strs (grs)	13.25@13.75
Mixed strs and hfrs (grs)	10.50@11.75
Handy It butchers (grass)	9.50@10.00
Light butchers (grass)	8.50@ 9.00
Best cows (dry-fed)	
Butcher cows (grass)	8.50@ 9.00
Cutters	7.50@ 8.00
Canners	7.00@ 7.25
Best heavy bulls	11.00@11.75
Bologna bulls	9.00@ 9.75
Stock bulls	. 8.00@ 8.75
Stockers	
Milkers and springers	\$65@ 100

Veal Calves.	Best shipping steers 16.50@1	7.50
rket rules steady.	Plain and coarse 14.00@]	15.00
grades\$16.00@16.50	Native yearlings 16.00(a)1	16.50
rs 10.00@15.50	Best handy steers 15.00@1	16.00
Sheep and Lambs	Fair to good kinds 13.50@1	14.50
rket steady: quality common.	Western heifers 14.00@]	15.00
lambs \$ 17.00	Handy strs and hfrs mixd 12.50@]	13.00
lambs	Best fat cows 12.00@1	13.00
t to common $\dots$ $10.00@13.00$	Butcher cows 9.50@1	10.50
to good sheep 10.00@13.00	Calves,	
and common 7.00@ 8.25	Market rules strong at the follow	wing

Prices a	than la	st week.	
Pigs	 	\$ 17.00	)
Mixed	 	16.25@16.40	)

#### CHICAGO.

# Cattle.

Cattle.
Thursday, June 13, 1918.
Cattle.
Estimated receipts 13,000. Fed cattle steady to strong, butcher stock and bulls steady to lower. Good choice prime steers \$16.50@17.90; common medium butchers \$12.75@16.60; heifers \$8.50@15.50; cows \$8.50@15; bologna bulls \$9@14; canners and cutters \$7.27@8.25.

Hogs.

ters \$7.27@8.25.

Hogs.
Estimated receipts 34,000. Market 5@10c lower. Tops \$16.65; bulk of sales at \$16.35@16.65; heavy \$16.30@ sales at \$16.35@16.65; heavy \$16.30@16.40; mixed and lights \$16.40@16.50; packers' hogs \$15.80@16.15; medium and mixed \$16.15@16.25; light bacon \$16.45@16.55; pigs, good to choice at \$16.25@16.60; roughs \$15.40@15.75.

Sheep and Lambs.
Estimated receipts 9,000. Market opened strong and is becoming stronger. Good spring lambs selling at \$20.50; others \$17.60@18; common lambs at \$16@17.50.

\$16@17.50.

### Wednesday, June 12, 1918. Cattle.

Wednesday, June 12, 1918.

Cattle.

This week sees a higher cattle market than was ever witnessed before in the history of the trade, with steers selling today largely at \$15@17.50, the estimated day's receipts being only 7,000 head. The advance in prices for the first half of the week is fully 25@50c, with two cars of 1,450-lb. steers from Nebraska selling yesterday to a New York firm at \$17.95, or five cents higher than the previous high record established last September. The same firm bought some 1,002-lb. yearlings at \$17.60, the highest on record for the weight. A single steer sold the other day at \$18, and two head in different loads sold today at \$18.25. The commoner class of light steers sell at \$12.75@14.75, with a good class at \$16.75 and over and no steers with much weight going as low as \$17. Fat cows and heifers sell at \$8.40@15.75, canner and cutter cows at \$7.25@8.35, bulls at \$9@13.85 and calves at \$9@16.

Hogs.

Hogs are being marketed sparingly, only about 7,000 head arriving today.

Hogs.

Hogs are being marketed sparingly, only about 7,000 head arriving today, comparing with 34,000 yesterday. For all that, prices are a little lower today, hogs bringing \$15.30@16.15 for heavy packing lots to \$16.50@16.75 for the best light butchers. Pigs are selling mostly at \$15.25@16.75, choice feeders going at the highest prices. Sharp declines in hog prices east and west have been largely responsible for the recent breaks here. Receipts of hogs in the eleven principal markets for this year have passed the 15,000,000 mark and are the largest on record for that period, being about 1,700,000 head larger than for the same time last year Spring and Clipped Lambs.

er than for the same time last year Spring and Clipped Lambs.
Only about 8,000 lambs and sheep arrived here today and prices were well maintained for desirable offerings, with prices for prime lots about nominal in the absence of offerings. Ewes are quotable at \$7.50@14.50; wethers at \$12.75@15; yearlings at \$13@16; lambs \$12.50@18; spring lambs \$13.50@20.50, a sale being made of six cars of California thin lambs at \$14.25 for feeding purposes. feeding purposes.

#### BUFFALO.

Thursday, June 13, 1918.
Pigs sold here this morning from \$17.40@17.50; other grades of hogs at \$17.25@17.35; lambs brought \$18, and calves \$18. Cattle are steady.

steady. Live Stock Ex Prime heavy steers.....\$17.50@18.15 Yards, Chicago.

Native yearlings 16.00@16.50					
Best handy steers 15.00@16.00					
Fair to good kinds 13.50@14.50					
Western heifers 14.00@15.00					
Handy strs and hfrs mixd 12.50@13.00					
Best fat cows 12.00@13.00					
2000					
Butcher cows 9.50@10.50					
Calves.					
Market rules strong at the following					
prices:					
Tops\$ 17.25					
Fed calves 7.00@ 8.50					
Sheep and Lambs.					
Receipts two cars. Market steady.					
Top lambs\$ 18.75					
Yearlings					
Wethers 14.50@15.00					
Ewes 12.50@14.00					
Hogs.					
Receipts 15 cars. Market has de-					
clined since last week.					
Yorkers\$17.25@17.35					
Pigs 17.25@17.35					
7.790					

#### WOOL

A conference held in New York last week between manufacturers of woolen goods and government officials resulted in an announcement indicating that about 34 per cent reduction in the consumption of woolen goods by civilians would be necessary this coming year. Fifty-four per cent of all the wools will go to spinners of yarns for military cloth. As stated in these columns in previous issues, the price to be paid growers is the seaboard price prevailing July 30, 1917.

#### HAPPENINGS OF THE WEEK.

(Continued from page 718).

and Noyon the French wings are holding firm, although the enemy has advanced two and one-half miles at the center.—Americans stop an assault on the Marne front, while the Allies repel an attack at Rheims.—President Wilson is being urged to cooperate with the other Allies in an effort to save Siberia to the entente cause.—Germany now has full control of the armies of Finland.—Aerial postal service has been established between London and Paris.—A new star, the brightest discovered in several centuries, is detected by Prof. Oliver, of the University of Virginia.

Tuesday, June ...

The German attack between Noyon and Montdidier appears to be breaking down before strongly fortified allied lines.—Casualties from British hospitals bombed by German aviators number 991.—The Soviet government of Russia is reported as preparing a draft measure to raise troops for opposing the Germans.—Sentences of 25 years in prison have been imposed by a court-martial upon forty-five conscientious objectors from Oklahoma, who had refused to wear army uniforms.

MID-SUMMER SHORTHORN SALE.

#### MID-SUMMER SHORTHORN SALE.

(Continued from page 739)-Consigned by C. Carlson, Leroy,

Dale's Sultan, 654072, J. M. Heck, \$150. Fairview Sultan, 516338, Mr. Clark, \$205.

Lass' Sultan, 654076, F. Perkins \$245. Pocohontas' Prince, 654078, B. Parks,

Consigned by M. P. Cook, of Flint, Dan Lee, Genesee County Farm \$145. Butter Boy, 555218, Horace Scott,

\$130. Consigned by C. J. Deter, Webber-

Garnet Sultan, 479016, Mr. Wolcott, \$180.

Consigned by R. C. Spaulding, Fenton, Mich.:
Maple Grove Lad, 649130, G. J.
Wright, \$75.
Red Jacket, 609560, B. Parks, \$135.

#### A BOOK FOR LIVE STOCK MEN.

Thursday, June 13, 1918.

Pigs sold here this morning from 17.40@17.50; other grades of hogs at 17.25@17.35; lambs brought \$18, and alves \$18. Cattle are steady.

Wednesday. June 12, 1918.
Cattle.

Receipts today two cars. Market leady.

Time heavy steers ....\$17.50@18.15

An album and history of last year's International Show at Chicago is now ready for distribution. This thoroughly illustrated and well-bound book will make an interesting and attractive volume for the library of any live stock man. Copies can be obtained at fifty cents each by writing the International Live Stock Exposition, Union Stock Yards, Chicago.

# Mid-Summer Shorthorn Sale

The Mid-summer Shorthorn Sale held at Flint under the auspices of the Michigan Shorthorn Breeders' Association, as noted in the last issue, was well attended and the offerings were well distributed in the state, where they will continue to benefit the Michigan Shorthorn industry. The following is a list of the sales:

Water Lily Monarch, 616990, Fred Carter, \$200.

Consigned by L. D. Otto, Charlotte, Mich.:

Kilwinning Star, 593275, Robert Parks, \$185.

Missie Royal, 620933, Mr. Parkhurst, \$305.

Consigned by F. S. Postal Estate

Females.

Consigned by M. P. Cook, of Flint, \$125

Consigned by John A. Anderson, of herd, Mich. Clio, Mich.: Maude of Clio Fifth, 490243, E. C. \$135.

Ionia, Mich.:

orange Beauty, 246058, A. L. Pant, field, Mich.:
Village Master 2nd, 603850, E. S.
Consigned by C. Carlson, of Leroy, Bristol, \$130.
Consigned by W. S. Adams, Litch-

Consigned by W. S. Adams, Litch-Princess Sharon 2nd, Mr. Hanson, field, Mich.:
Village Master 2nd, 669482, C. A. Rose Sharon, J. E. Burroughs, \$240. Bassett, \$95.
White Girl, Mr. Hanson, \$130.
Consigned by Albee & Hawley, Durch Consigned by C. J. Deter, Webberand, Mich.:

Express Sharon 2nd, Mr. Hanson, 670702 Mr. Stewart 180 Mich.: \$180.

ville, Mich.: Baroness Hu Johnson, \$175. Hudson A 3rd, 618376, R. \$90.

Johnson, \$175.
Roan Beauty, 220851, B. Strong, \$245.
Consigned by B. D. Kelley & Son,
Ypsilanti, Mich.:
Burr Oak Violet, 583465, M. J. Shear,
Ger

Fancy Lady, 230049, F. J. Flower, \$180. Consigned by L. C. Kelley, Plymouth,

Mich .: May Belle, 63977, L. C. Becker, \$300. Mich.: Consigned by John Lessiter's Sons, Beau

Clarkston, Mich.:
Albina, 618346, J. F. McClausen, \$295.
Sally Sultana, 511913, W. J. Bell, \$105.

Consigned by Michigan Agricultural College, East Lansing, Mich.:
Snow Boy, 595059, Mr. Spaulding, \$125.
Pant, \$230.

Consigned by W. F. Brickley & Son, Ionia, Mich.:
Snow Boy, 595059, Mr. Spaulding, \$125.
(Confinued on preceding page)

College Melody, 539641, George Doster, \$155. Consigned by F. S. Postal Estate,

Evart, Mich.:

Buchan Fancy 24th, 498901, W. J.
Bell, \$430. Bell, \$430. Mina May 3rd, 498927, W. J. Bell,

Ury's Queen, 498941, W. J. Bell, \$600. Consigned by E. D. Rice, Flint,

Donna Victoria, 610712, E. S. Bristol, \$135. Lena 2nd, 215063, S. J. Flower, \$180. Madeline 2nd, 215065, E. S. Bristol,

Rebecca 5th, 223899, W. J. Bell, \$220. Virginia Girl, 544946, J. E. Burroughs

Consigned by John Schmidt, Reed City, Mich.: Bell Robin 5th, 466544, Albert John-

son, \$260. Monarch's Bell, 588503. F. J. Flower,

Consigned by T. M. Southworth & Sons, Allen, Mich.
Alexandrina 8th, 69705, L. P. Otto,

Consigned by Michael Wagner, Fremont, Ohio: Eureka May, 542427, F. Edwards,

Julia S, 236197, Mr. Strong, \$500. Bess B, 44601, A. L. Pant, \$410. Roan Nonpareil, 571261, F. Edwards,

Queen, 208665, F. S. Postal, \$240. Bulls.

Consigned by O. A. Hoopingarner, Bronson, Mich.: Silver Thread, 619696, W. J. Leese,

The Guard, 507461, Mr. Clark, \$210. Consigned by E. V. & W. J. Hosley, Howell, Mich.: Red King, Mr. Stimson, \$125. Roan King 8th, W. W. Knapp, \$90.

Consigned by J. G. Hughes, Howell, Diamond Archer, H. J. Mier & Son,

\$100. Snowstorm, 435079, A. L. Pant, \$240. Consigned by John Lessiter's Sons, Clarksville, Mich.: Baron Victor, 618340, W. J. Bell

Harold, 618342, John Southworth,

Consigned by Michigan Agricultural College, Lansing, Mich.:
Choice Mysie, Wm. Claxton, \$190.
Ingham Lad, E. F. Howe, \$105.
Consigned by Theodore Nickles, of Metamora, Mich.:

Evart, Mich.: Springhill Red, 622391, Wm. Kester,

Consigned by E. D. Rice, Flint, Mich. Osceola Gloster, 610710, W. J. Bell,

Osceola King, 610711, G. A. John-

Oster, \$140. Queen Mary, 40033, R. E. Potter, son, \$95. Consigned by E. B. Salisbury, Shep-

White Hope, 605168, Mr. Dexter, Towne, \$240.

Maude of Clio Ninth, 544386, O. M. City, Mich.:

Lady Belle's Monarch, 588495, W. J.

York, \$180.

Star of Clio, 544387, Arthur Cross, Bell, \$105.

Northern Monarch 3rd, 612573, Chas. Consigned by John Schmidt, Reed

Consigned by W. F. Brickley & Son, White, \$115.
Consigned by Adams Bros., Litchnia. Mich.:

Famous Sultan, 670703, Mr. Stewart,

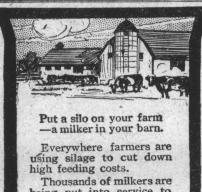
Harry's Boy, 670704, Mr. Hanson, Consigned by John A. Anderson, Clio,

Mich .: Genesee Chief 2nd, 655210, S. & C. Irwin, \$105. Prince of Clio 3rd, 655211, J. Ford,

Red Robin, 665213, J. Berlin, \$105. Consigned by W. J. Baird, DeWitt,

Beaufort, 665525, Alfred Lohrcock \$45. Clinton's Best, 638909, E. B. Faust,

Consigned by W. F. Brickley & Son,



being put into service to reduce labor on the farm. Join the McClure army of

feed and labor savers. Erect a Saginaw or Liberty ilo. Install a McClure Milker.

Write today for silo and milker information. Address

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e's just one way of being sure of a There's just one way or being sure was full Silo of clean cut ensilage. That is to fill with your own equipment. A 3 or 4 H. P. gasoline engine will operate a small PAPEC. If a saving of \$75.00 to \$150.00 yearly appeals to you, write today for our new 1918 catalogue—it's free.

PAPEC MACHINE COMPANY 150 Main St., Shortsville, N. Y.

\$13,700,000

Is the Estimated Loss by Fire and Theft on Automobiles in 1917 Carrying No Insurance.

The wise man will keep his car locked or placed in a garage, also, take automobile insurance in the CITIZENS' MUTUAL AU-TOMOBILE INSURANCE COM-PANY, of Howell, Michigan.

The Company started before the war; became thoroughly organized with a large membership before the raise in the price of automobiles and repairs and

The Company owns its own office building; has a large amount of equipment, and is a strong organization.

It has paid over 875 claims promptly and has created a reserve fund of about \$70,000 with a membership of over 32,000 of careful automobile owners selected outside of the large cities. The rates are very low in comparison with stock rates. That is the reason about five hundred new members are joining each

Cost only \$1.00 for policy and twenty-five cents per H. P.

W. E. Robb, Secretary, Howell, Mich.



INSYDE TYRES Inner Armor for Auto Tires. Double mileage, prevent blowouts and punctures. Easily applied in any tire. Used over and over in several tires, Thousands sold. Details free. Agents wanted. American Accessories Co., Dept. 712 Cincinnati, O.

EGGS
Notice to our Poultry Farm Shippers. General quality Eggs being poorer, we are now able to again pay a high premium for fancy stock. Let you shipments come, or AMERICAN BUTTER OTHERS.

Ship To The Old Reliable House Daniel McCaffrey's Sons, 623-625 Wabash Bldg., Pissaburgh Pa.

FRUIT

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

POULTRY

Hatching Eggs-Plymouth Rocks (all varieties) An-Sheridan Poultry Yards, Sheridan, Mich

John's Big beautiful hen hatched Barred Books, good layers 30 eggs \$3, 100 \$8, hatch guaranteed. Prepaid by mail. Photos circulars. John Northon, Clare, Mich

AYBILT S. C. W. LEGHORNS

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

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

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SPECIAL 30 eggs \$2.25 R. I. Reds, Rose or INTERLAKES FARM, Lawrence, Mich.

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Cass City, Mich.

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

I. C. 's. 7 last fall gitts bred for next fall farrow.
• also this spring's pigs from 3 sires, good stock.
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O. I. C.'s all sold except some fall gilts. Order O. J. THOMPSON, Rockford, Mich.

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Smooth Jumbo a grandson of Peter Mouw's old boar
Smooth Jumbo a 800 lb. yearling. A top notcher fit to
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If you get one you will have to hurry.
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Large Type P. C. no public sale this year; 50 sows and gilts all queens of the breed go at private treaty.
W. J. HAGELSHAW. - Augusta, Mich.

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

Nothing for sale at present. Spring pigs of coming fine.

C. E. GARNANT, Eaton Rapids, Mich.

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W. E. LIVINGSTON, Parma, Mich.

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

Large Type P. C. fall gilts, sire 800 lb. yearling to be bred to 1000 lb. 2 year old for July & Aug. 2 extragood fall boars. WM. J. CLARKE, R.7, Mason, Mich. BIG TYPE Poland Chinas: Brood sows all sold. Have a few fall pigs. Prices right.

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

L. S. P. C. all sold out, except the largest farrow. H. O. SWARTZ, Shoolcraft, Mich. Hampshire Pigs only for sale now, a bargain JOHN W. SNYDER, R. 4, St. Johns, Mich

HORSES

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Percheron Stallions and mares of reasonable prices; inspection invited.

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FOR SALE Two Percheron stallions: two Percheron old. E. J. ALDRIGH.

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W. E. LEOKY, Holmswille, Ohio.

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

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

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Some Good Breeding Ewes and registered RAMS for sale.

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That's the day we sign up.

That's the day we tell Uncle Sam just how hard we want to win this war. That's the day our government has officially set for us to purchase War Savings Stamps.

On June 28th every man, woman and child in the United States will be called upon to pledge his or her full quota of War Savings Stamp purchases for 1918.

You will be expected to pledge the full amount that you can affordno more—but by the same token, no less.

In every state, county, city, town and vil lage the War Savings Committees are preparing for this big patriotic rally of June 28th. Unless you have already bought War Savings Stamps to the \$1,000 limit, get busy with paper and pencil and figure out the utmost you can do.

Remember this. You take no chances when you go the limit on War Savings Stamps. They are the best and safest investment in the world.

They pay you 4% interest compounded quarterly. They can't go below par. You can get back every dollar you put into War Savings Stamps any time you need it. You can turn them in at the Post Office any time for their full value plus interest.

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