

VOL. CLI. No.1

DETROIT, MICH., SATURDAY, JULY 6, 1918

# Short-Seasoned Crops for Michigan

By J. F. COX, Professor of Farm Crops, M. A. C.

planted now on land where frost has done serious damage will secure a rapid start. The enemy has gained the first-line trenches but there is still time to drive him back. There are many crops which can yet be seeded with assurance of success.

Beans can be planted early in July and will mature in a favorable season. Potatoes can also be planted as late as the first week of July throughout southern and central Michigan with fair assurance of maturing the crop. Corn for silage purposes will give good yields if planted immediately,

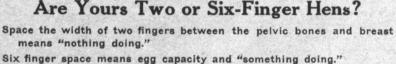
and sowed corn either drilled or broadcasted between now and July 15 will give a heavy yield of nutritious fodder. It seems particularly advisable under present conditions for stock men to return to the old practice of planting sowed corn, drilling or broadcasting at the rate of a peck to a half bushel per acre. Heavy yields of fodder or coarse hay can be secured by this practice.

Buckwheat will mature grain in sixty to seventy days. Is adapted to a wide range of soil and will germinate under extremely dry conditions. The usual seeding is three pecks per acre drilled or broadcasted. As a catch crop and crop to seed where others fail, buckwheat has long been considered the most reliable, but unfortunately the seed supply is somewhat limited though seed can at present be secured

Millet is a most dependable forage crop for early July seeding and will furnish good yields of a useful hay crop. The seed of the common millet is most plentiful, though some Golden is available. From thirty to forty pounds of seed is drilled or broadcasted.

Sorghum is available and is a useful crop for forage purposes. It is another crop which will start under dry conditions.

HE recent heavy frost of June In fact, best results will be secured by Early Amber variety of sorghum is summer season. It furnishes excel-24 did great damage to beans, planting in late June or early July. best adapted. corn and potatoes throughout For silage, sorghum may be drilled in Soy beans planted in rows like com- The Dwarf Essex variety is by far Michigan. In many sections of west- rows thirty-six to twenty-four inches mon beans or sowed broadcast will the best, drilled from two to four ern Michigan total failures of these apart at the rate of ten pounds per furnish a large supply of leguminous pounds per acre in rows twenty-two crons are reported. At the present acre. It is cultivated and put in the forage for has, pasturage or to go into inches apart and cultivated or broadtime seed beds are in excellent condi- silo like corn. For coarse hay or fod- the silo. Soys can be planted until casted at the rate of four pounds per tion for planting and should rain oc- der purposes drill or broadcast from July 19 for this purpose. cur within the next week or two crops forty to sixty pounds per acre. The Rape may be seeded throughout the



A flexible "feel" to this portion of the hen's anatomy means quality and high production. A hard or fatty "feel" means lack of pep

in the egg bag. Keep your good "feeler," three to six-finger hens, it means more money for you. Turn to page three to learn how.

### Everybody Works with Father



A Scene on a Historic Porch, Familiar to Our Older Readers

every reader of the Michigan wearily lifting and pushing on gets all his muscle. Farmer, and especially at this the handle thereof. time of the year when haying is on.

its glory and almost every per- while they wearily turn the

graph somehow looks on the old scythe on top of the glance sidewise at dad's grim kind o' natural to nearly gritty stone and Tom and Sally features and wonder where he

of perspiration seems to be handle. Father looks pleasant These are exceedingly busy away ahead of the demand and the scythe blade is held times on the farm, even for the farmer boys furnish a lot more gracefully and reposes the water jug with its cob seal. of the briny stuff that gets in- more lightly on the top of the The old grindstone is now in to their eyes and goes to waste stone, and it takes longer to

HE accompanying photo- fect day sees dad bearing down grindstone and steal a quick

But it's different when Sally About this time the supply presides at the old grindstone (Continued on page 6).

lent hog, sheep and cattle pasturage. acre.

\$1.00 A YEAR \$3.00 FOR 5 YEARS

Flat turnips may be seeded throughout July and drilled or broadcasted at the rate of four pounds of seed per acre, or planted in rows twenty to thirty inches apart using two or three pounds of seed and cultivated. Larger yields will be secured by drilling in rows.

### The Seed Supply.

There is ample supply of early Delaware seed corn of high germination held in the war board seed reserve at Grand Rapids, with the A. J. Brown Seed Company. This corn may be secured promptly on order from the Brown Company. at \$5.00 per bushel.

Several thousand bushels are held in this reserve. Michigan seedsmen also report considerable Red Cob ensilage corn and other varieties.

The seedsmen report a good supply of millet, rape and Amber sorghum. It is doubtful, however, whether there is enough buckwheat to furnish the great demand, though at present buckwheat seed is available. The supply of soy bean seed on hand is quite large, the varieties, however, being southern varieties which will furnish a large supply of forage but which will not mature seed. Those who act promptly can still plant beans and buckwheat for grain purposes and corn for silage.

Buckwheat, millet, rape, sorghum, turnips, sowed corn, soy beans for hay or silage, may be planted as late as July 15.

Editor's Note.--Reports from all parts of the state indicate that low crops were badly damaged in most sections by the recent frost. The most serious damage to field crops seems to have occurred in western Michigan from Oceana county down, the frosted area extending as far south as central Indiana. This will be a serious handicap to the farmers in the frosted area, but the loss will be minimized by growing substitute crops on these fields.

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RATES OF ADVERTISING 45 cents per line agate type measurement, or \$6.30 per inch (14 agate lines per inch) per insertion. No advi-
TERMS OF SUBSCRIPTION: One Year, 20 issues
I. R. WATERBURY Business Manager
M. J. LAWRENCEPresident F. H. NANCEVice-President P. T. LAWRENCE
CHICAGO OFFICE -111 W. Washington Street. CLEVELAND OFFICE 1011-1015 Oregon Ave., N.E. PHILADELPHIA OFFICE -261-263 South Third St.

nsorted for less than \$1.35 each insertion. No objectionable advertisements inserted at any price. Member Standard Farm Papers Association and Audit Bureau of Circulation.

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

DETROIT, JULY 6, 1918



CURRENT COMMENT.

Policies.

torial discussion of the action of the Federal Farm Loan Bank for this district in refusing a loan on the ground great bulk of mortgage loans made by that the needs of the Quartermaster amendment was forty-six to nineteen. that the land in question did not con- American farmers will ultimately be tain sufficient area to be properly des- made through the federal land banks ignated as a farm. In order that this at a very pronounced saving of interproposition might be discussed intelli- est, and to the great advantage of aggently, we corresponded with a mem- riculture as a business. Undoubtedly ber of the Federal Farm Loan Board as this business grows, defects will be at Washington, and interviewed the found and corrected in the law itself, secretary of the Federal Land Bank as well as in its administration, and of St. Paul, with a view of securing the service will thus continually bean accurate knowledge of the policy come more satisfactory to its farmer laid down in this regard, and the rea- patrons. In the meantime, construcsons for its establishment.

gations was a better realization of the cerned. task which has confronted the Federal Farm Loan Board and the federal land banks in developing this branch of The Wool that the government has government service from the founda- Situation. tion. When it is remembered that the of more than \$16,000,000 in loans dur- the public mind with regard to the toward the organization of a comprethe enormity of the task will be appre- ceive for their product. ciated. At the outset it was necessary ed in a uniform manner by the federal of wool a matter of judgment rather chang is a notable example. farm loan banks of the several dis- than of absolute certainty. Notwith- The plan calls for the organization his boys. Whether this was due to a tricts.

on this point is as follows:

### Area of Farms.

As a basis of determining what area es the board requires the following test

Generally: The farm must First. putting it to the use to which it is generally adapted and using average methods, an income sufficient to main-

THE MICHIGAN FARMER

tion payments where the application of the prospec-tive borrower shows that he is by exerience capable of producing such an income from such a tract, such area may be accepted as sufficient, provided the land has a stable and perma-nent market value sufficient to warrant the loan applied for. This ruling does not apply to fruit and orchard have already been the sublands which jects of definite ruling by this board.

In the investigation above noted it was clearly brought out that in the making of a loan on the amortization plan which will not mature until the expiration of a period of thirty-six years, an economic test as above outlined may be more properly applied. and is more essential from the standpoint of safe banking than would be the case with a short-time loan which in all probability would be discharged by the borrower himself, whereas in a NUMBER ONE long-time loan the completion of payments may devolve upon a succeeding generation.

The difficulty encountered by the Federal Farm Loan Board in outlining a satisfactory policy in relation to the area of a farm upon which federal loans will be made has been more difficult because of the fact that the rules inaugurated must be uniform in character, applying alike to all sections of the country, notwithstanding the fact that conditions vary greatly in different states and different sections of the same state. This, however, is a most important question in its relation to the best development of American agriculture, and the application of this economic ruling will undoubtedly be In another column more or less modified through the ex-Federal Farm Loan of this issue will perience gained as the system bebe found a letter comes more firmly established and asking for the edi- more generally used by the farmers of the country.

tive discussion of the problems involv-The striking result of these investi- ed should be welcomed by all con-

ment order.

tain the family of the applicant and pound, and insure him the established strictly cooperative nature not organ- and aid it in every possible way.

discharge the interest and amortiza- government price as determined by a ized for profit, and as such will be free government inspector at the receiving to adopt such grading rules as they Second. Specially: Where through intensive farming or the practice of a specialty a sufficient income has been regularly derived from a tract deficient in area for ordinary farming, or make local shipments to the designat- established for dealers by the Food ed receivers or sell to local buyers. Administration. This should prove the The latter will be the easier course in most, practical solution yet advanced most cases.

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ZIN

tive and have made a good many pur- plan also offers greater possibilities chases at interior points at prices av- for the growers than any other which eraging around sixty-five cents per has yet been advanced, inasmuch as it pound for best Michigan fleece wools. would enable the marketing of their In some localities sales have been re- products in large volume under compeported as high as sixty-seven cents per tent business supervision at a minipound, while in other localities grow- mum cost and with the elimination of ers are holding for seventy cents per middlemen's profits at the point of orpound, which some good judges be- igin at least. lieve should be about the price to the Further facts and details with regrower for the best grades of Michi- gard to this plan will be presented gan fleece wools.

ter received by one Michigan wool state should watch for them and study grower from the dealer to whom he them carefully, to the end that he may has been accustomed to sell his wool. be fully informed as to the possible In this letter he states, "The price for benefits which may be derived from good long staple wool three-eighths or such an organization of state-wide one-quarter is sixty-five cents, no more, scope, no less. Short staple and black must be discounted. This is the government price, so you cannot make anything by Wheat Price ity granted it, as noted holding it." From our information, we Adjustment. in the last issue, the believe this letter to be entirely unwarranted and misleading. While six- poration has made an adjustment of ty-five cents may be a fair price for the minimum price of wheat to guarthis wool, it is not the exact estab- antee the western growers \$2.00 per lished government price, which as bushel for their product on board cars above noted, is made on a scoured bas- in the inter-mountain territory. is, and cannot be determined to an ex- The congressional deadlock on the act fraction even by an expert. This matter of wheat price adjustment conletter is being forwarded to Prof. Geo. tinues. On July 1, the first day of the Brown, of the Agricultural College, new fiscal year, the senate by a large who has been appointed by the Chief majority refused to yield to the house of the Wool Division of the War Indus- opposition to the senate amendment tries Board to cooperate with the to the annual agricultural appropri-Board in its work of collecting the ation bill providing for a mini-Michigan wool clip, and we hope to mum guarantee of \$2.50 per bushel for publish a statement from him with re-wheat. This amendment was adopted gard to this matter at an early date. by the senate last March by a vote of

General are such that it is desirable It is impossible to predict what comto have the wool clip moved as rapidly promise may finally be effected, but as possible. It is, however, equally de- the success of the senators from imsirable for wool growers to secure the portant wheat growing states in their full government price less the cost and fight against the defeat of this amenddesignated profit for handling. Our ment would seem to insure that some readers will be kept advised of the congressional action will result, promost accurate information as to what viding for a readjustment of the minithat price should be for the different mum guarantee on wheat, unless a grades of Michigan wool as soon as general agreement is reached for a exact knowledge on this point is avail- price adjustment by the Food Adminisable.

fixed a price on this year's at Traverse City with a large number quality of the product, much of it wool clip, and has provided of county agricultural agents and Field grading No. 1 and testing as high as federal land bank for this district has the machinery for handling it, there Agent in Marketing, Hale Tennant, of sixty-two and a half pounds per bushel. built its organization and made a total still remains considerable confusion in the M. A. C., to take the initial step ing its first fiscal year, something of prices which wool growers should re- hensive plan for marketing Michigan Boys' and Girls' est is being taken in potatoes and other food products. The This is in large measure due to e plan outlined follows somewhat closefor the Federal Farm Loan Board to fact that the price established is made ly- the lines of successful marketing In one community which recently came formulate rules and regulations under on the scoured basis, which makes the associations in other states, of which to our attention, a pig club is being orwhich the business would be transact- price adjustment on varying grades the California Fruit Growers' Ex- ganized. The local director of the work

standing the fact that the profit which of local shipping associations in each scarcity of pigs in the community or In the matter of the area upon which may be taken by the officially desig- county, and for one or possibly two to the cupidity of their owners in not a loan would be made, the board took nated receivers of wool for the gov- central agencies or exchanges which desiring to sell them to the boys for the view that it was better to submit ernment and by local buyers has been will keep in touch with all markets this work at a nominal price we did the farm to an economic test rather established there is a tendency on the and act as selling agencies for the lo- not ascertain. Finally, through the perthan to determine the matter from the part of wool buyers everywhere to cal organizations of producers. Under sistence of the director and the cooperstandpoint of acreage alone. The rul- play safe even though they will not be the plan all farm bureaus would report ation of a public spirited farmer in the ing of the Federal Farm Loan Board permitted to retain any profit in ex- the holdings of potatoes or other pro- community, enough pigs were secured cess of that allowed by the govern- duce in their various sections to the to enable all the boys who qualified to central exchange, so that full informa- go on with the club work. In order to obviate the tendency on tion may be available in regard to sup- There is no line of educational work constitutes a farm for loaning purpos- the part of buyers to hold country plies as well as demand. Michigan in any rural community which promisprices down, the government has ad- products would be standardized and es more for the future of the agriculvised the pooling of clips by farmers advertised in the markets of the coun- ture of that community than this boy

> would save to the seller the local deal- Under the plan as outlined, the pro- nity will be well repaid if they will iner's profit of one and a half cents per ducers' organizations are to be of a terest themselves in this line of work

for the settlement of the much mooted Realizing this, local buyers are ac- grading question in this state. The

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through these columns as they are de-We are in receipt of a copy of a let- veloped. Every potato grower in the

> Pursuant to the author-United States Grain Cor-

The Chief of the Wool Division of forty-nine to eighteen, and the recent There is little doubt but that the the War Industries Board advises us vote against the abandonment of the

tration which will satisfy producers.

In the meantime, the new wheat A large delegation crop is beginning to move in the south-A Comprehensive of northern Michi- west at prices ranging two to four Notwithstanding the fact Marketing Plan. gan farmers and po- cents above the government guarantato growers met teed price, due largely to the superior

### A good deal of interclub work by the boys and girls of Michigan.

had great difficulty in securing pigs for

Club Work.

be of sufficient area to yield at the and the shipment of wool direct to the try as a step toward stimulating their and girl demonstration club work. The hands of an ordinarily capable farmer, designated government receivers. This movement marketward.

### How to Pick the Layers In the Farm Flock By E. C. FOREMAN



In her working clothes. This hen laid 256 eggs in one year and is the mother of the prize pullet in the Mission Egg Laying Contest.

HE average hen entered in the present "Missouri Egg Laying Contest," has paid a profit of \$2.09 above feed cost during the first seven months, or approximately \$3.60 per year. The leading pen of five hens gave a profit of \$17.39 in seven months, \$3.48 each, or \$6.00 per year.

With the above facts confronting us, why, then, is there such a lack of enthusiasm in the poultry ranks, and how are we going to correct this condition? It is true the price of grain has advanced without the corresponding increase for poultry products, but money can be made and is being made by those that know how. What, then, is the solution? Intelligent culling must be applied, and a grading-up process inaugurated on all the farm flocks throughout the state.

Over 20 Per Cent Non-producers.

Every farm has its slackers as well as workers. On the average farm from twenty to forty per cent of the flock should be culled and consigned to the meat market. Due to lack of system and knowledge most farmers have been marketing their best layers and retaining the "big, fine looking hens," along with those that have been "family pets" for the last five years. We need not labor under delusions any

A Simple and Effective Method of Selection which Enables Every Owner of Hens to Eliminate Non-Producers

between the high and low producing of poultry carry a surplus of yellow hen, for us to grope along blindly. pigment or fat previous to the time Two methods of selection will be dealt they start laying. At that time their with: (1) summer and fall selection; shanks and beak are bright yellow. (2) the quality test.

elimination of all slacker hens, with- and a gradual fading of these parts reout any reduction in the egg yield. sults. A heavy producer will in every It also means higher flock averages, case show the effects of this physical lower grain and labor bills, and great- drain. er profits.

lustrations are of high and low pro- dicates lack of blood circulation and ducing hens. One a 256-egg hen, the vitality, while a full bright waxy comb other a zero hen. The heavy produc- of the heavy producer means vitality ers show breeding and also the effects and a strong blood circulation. of the strain of manufacturing thirtytwo pounds of eggs. Her legs and beak have lost their deep yellow color, is the heaviest layer. She generally and are bleached almost white. Her defers changing her feathers until the plumage is faded and ragged. The latter part of October or November zero hen is in full millinery display, and quickly moults in again. The opnever did a tap of work and don't in- posite is true of the drones, they usutend to. She is the kind most people ally commence in July or August, retain-nice lustrous plumage, bright moult very slowly, taking from one yellow legs and beak, not a broken or month to six weeks longer than the soiled feather in her make-up. This producers, then wait until the warm feeding-out process is explained by the spring weather before trying to per-

longer. There is too sharp a contrast fact that all yellow-skinned varieties When production starts, the supply of By intelligent culling we mean the fat is diverted into making egg yolks

The comb is the health certificate More About the Two Hens Pictured. of the hen. The shriveled, dry, scurvy The two Barred Plymouth Rock il- looking comb of the low producer in-

### Late Moulters Best Layers.

In most cases a late moulting hen



Index finger of right hand on tip of breast bone, showing flexibility and contractibility of egg sack in a heavy producer. Four-finger capacity.



All dressed up and nothing to do. This hen spends her time parad-ing up and down, showing her fine clothes. She has not laid an egg.

petuate themselves by laying eggs. The other method of selection by the "quality test" system can be applied at any season of the year with pronounced accuracy. It is not necessary to winter a large number of hens, to feed and care for them for six months and wait for the signs of production, mentioned in above test, to appear. This method must not be confused with other systems, published previously, because it differs very much.

### A Test for Egg Capacity.

The accompanying illustrations are of two White Plymouth Rock hens, both laying, but of two different types, high and low producers. We are dealing now with the pelvic region, which corresponds to the udder of a dairy cow, and we look for the same characteristics in the egg sack of the hen that we do in the udder of a heavy milker, quality and capacity.

Capacity is generally measured by the width or number of fingers that can be placed perpendicular across the abdomen, between the breast and the pelvic bones. This distance varies greatly with different hens. The nonproducer has only one or two finger capacity. The slacker, or non-profitable hen, may have from three to six finger capacity, the same as the heavy layer, but it lacks quality, and we (Continued on page 20).

Index finger of right hand on tip of breast bone, showing flabby in-flated egg sack of the meat type or low producing hen. Such a hen should be sent to the butcher. Handling Farm Manure In Rush Seasons

LMOST everyone who has made A and study of the matter would agree that the only way to conserve all of the fertilizing elements in farm manure is to place it on the land as soon as it is available. There are some conditions, however, which preilable for future use. At the same placed on rolling or hilly land carry it is not wise to make such a risk.

impossible to spread manure as soon while forty per cent lie in the solid nure that should be kept in mind when- well known fact that when horse maas it is made is in the rush season. If part. If we wish to put it in another ever any system for its handling is nure or any other dry manure, is

### By I. J. MATHEWS

The ideal way is to spread the manure on the land as soon as made, but in rush seasons there is neither time or place to do this. This article tells you what to do with it to conserve its valuable fertilizing elements.

per cent of all the fertilizing elements the growing plants. The other condition which makes it lie in the liquid part of the manure,

supply and it becomes necessary there- while the manure is being stored un- ments are in the liquid manure while eye full of foul smelling gas. This gas fore, to so arrange the materials and der ordinary conditions for three or fifteen per cent are in the solid portion. is nothing other than ammonia, a comappliances at hand that the greatest four weeks until the work lightens In other words, the liquid portion is bination of nitrogen and hydrogen, and amount of fertilizing constituents in sufficiently to put it on the soil, we much more valuable than the solid, and for this reason every bit of ammonia the manure shall be saved and made probably would find that there is no where manure is placed out in piles gas should be saved since it contains season too rushing nor no work that under the eaves of the barn or wheeled the nitrogen which is so costly when time that it is agreed manure should pays better than putting the manure out to the side of the hill with the ex- bought as a fertilizer. The commercial be put on the land as soon as made, it directly onto the soil as soon as it is pectation that the rain will wash out ammonia, so-called, which is bought on is just as well agreed that it should made. However, since we have been portions of it that are too heavy to haul the market for use on wash day is not be placed upon hilly or rolling land, accustomed to think this job can not to the field, it will readily be seen that nothing more nor less than ammonia but a short while before that land is to be done during these rush seasons, it any manure supply so handled might gas dissolved in water. Ammonia gas be plowed or worked up. Freshets and becomes necessary to provide some as well be dumped into the river in its dissolves very readily in water and is showers when falling upon manure so suitable storage place for the manure. entirety since the solid portions of the somewhat heavier than air and when Taking all the farm manures, by and manure that remain are very inert and ammonia is dissolved in water this gas away a very large amount of the fer- large, it comes about as close to the it takes a long time before they are may be driven off very quickly by an tilizing ingredients and for this reason truth as we can get to say that sixty decomposed sufficiently to be used by application of heat so in both the liquid

there was some way of getting at the way, we might say that eighty-five per mapped out. One of the first is that

the liquid portion of the manure is much more valuable than the solid; the next one is that under normal conditions the nitrogen of the manure is the most valuable part of it. When the small boy goes out to the barn to clean out the stable that he neglected clude such disposition of the manure exact amount of loss that takes place cent of the available fertilizing ele- the morning before, he usually gets an and solid portions of manure there is a There are some facts concerning ma- large amount of ammonia gas. It is a (Continued on page 8).

# Suggestions for Our Busy Farmers

HOME-MADE GARDEN CULTI-VATOR.

The farmer's ingenuity and mechan- trying .-- H. L. Spooner. ical skill may be quite accurately judged by the things he permits to go to waste on the farm. The accompanying illustration shows a home-made

tal strips are bolted on. The handles a tree. There is an endless variety of keep the water off. are four feet long and twenty inches shapes, limited only by the shapes in wide at the ends. The two strips which the limbs grow. Often the whole through which the axle is fastened are gate may be fashioned from the limbs can be drained by what is known as a twenty-four inches long and the up- of one tree. In most woodlots there vertical drain, that is, you dig a well right from top of hoe to the rung are many queer growths of limbs, from at one side of this depression and if through the handles is twenty-two inches. The width of the cut is eight and a half inches.

This hoe will run easier than many purchased cultivators because of the high wheel. It is not difficult to make.

#### MARKING TOOLS.

To save losses of metal tools from borrowing neighbors whose intentions are good, but who are careless in returning them, they should be marked with the owner's name in such a way that the marks cannot be effaced. This is a very easy matter. Melt a little tallow or beeswax and spread it over the place where the name is to be written. Write the name down through the wax with a big needle or awl and pour a few drops of nitric acid over the wax with a rag and the name will secured. be on the iron.-S. H.

### A FREE CROP OF CABBAGE.

and eventually reach a good size.

This extra crop costs nothing except

a little time used in removing the ing the brakes more than is necessary. find it or not. If you do then you can of food conservation is well worth down the power and coasting to the and have them empty into this vertical

### DON'T HAVE TIRES RESET.

hand garden cultivator. The wheel is mer, the tires on the wagon wheels of blowouts. By repairing small injuries will work well, But of course, you can a discarded bicycle wheel and the ten become loose. Of course, this usu- the life of the tire can be increased. have no assurance that you will find a teeth are the head of a cultivator hoe ally happens just at a busy time when bolted to the frame. The handles and one cannot afford to lose the time to fort to dodge stones and all small ob- would have your expense for nothing. two strips to which they are attached visit the blacksmith shop and get stacles in the road, will save money on are made of 1x2-inch oak and the up- them reset. If one is prepared, how- tires. It soon becomes an instinct to right to which the teeth are attached ever, this trip may be avoided. Instead drive carefully and avoid unnecessary of having the tire cut and set over, cutting and bruising of the tires. heat a half gallon of linseed oil, pour it into a shallow dish, and turn the WHAT SHALL I DO WITH A WA. nine wire and make a pattern for the wheel through it several times. It is surprising how quick the felloes will

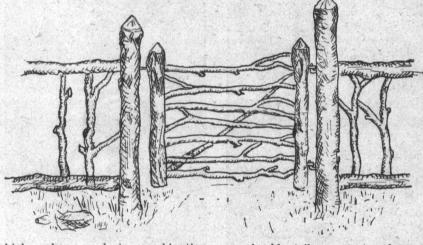
small surplus heads, and in these days You can stop it in this way by shutting put a tile drain through the depression made necessary to avoid accident.

During the hot dry weather of sum- sionally for cuts that will later be ing this strata of gravel everything

### TERHOLE?

swell and make the tire as tight as ever.—H. L. S. A RUSTIC GATE. A gate for the farm home that is inexpensive, and yet adds a touch of beauty to the surroundings may be is a  $4x4\frac{1}{2}$ -inch plank, cut down to beauty to the surroundings may be is worth. We have drawn some sand  $2x2\frac{1}{2}$  inches above where the horizon- easily made from the smaller limbs of on the low spots but it does not help much. The soil is very rich if we could Ottawa Co. Mrs. A. H.

Sometimes a wet depression like this



the letters. In a few minutes wipe off many odd and beautiful effects may be

### HOW TO SAVE TIRES.

Own an air gauge and test the tires In cutting heads of early caupage, at least one each week whether they if they are carefully cut from the in- seem to be properly inflated or not. It side, leaving the outer leaves on the is not possible to judge the pressure stalk intact, several small heads will in a tire without the gauge and it pays outlet for your vertical drain. soon appear. By removing all of these to run them only when the gauge except two or three, the remaining proves that they are carrying the ones will soon grow into solid heads amount of air recommended by the manufacturer.

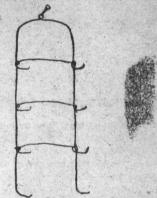
which, when used in combination, you should strike a strata of gravel now in progress within the state for down below the hardpan at any rea- the eradication of the highbush barsonable depth, it is possible that the berry. The bark on the roots of the water from this depression might be plants pulled is worth twenty-five cents all taken care of with this vertical a pound, the pathologists have been drain. This system has been known to advised. work well in some instances while in -

You could dig this vertical drain Stop the car gradually without us. Nobody can tell you whether you can state nursery inspector.

stopping place. Speeding injures the drain, say two and one-half feet below tires, especially when quick stops are the surface. A cap can be put over the top of the vertical drain and the whole It pays to examine the tires occa- thing filled up. If you succeed in find-The driver who always makes an ef- subterranean outlet and then you

#### SEED CORN HANGERS.

This is the way we made our seed corn hangers: Take a piece of number loops. The loops are made four inches long and three and a half inches wide, and the prongs to receive the ears are



two and a half inches long. This requires about sixteen and a half inches of wire to make a loop. These loops can be hung in lengths of fifteen to twenty from a nail, so they will hold from thirty to forty ears of corn.

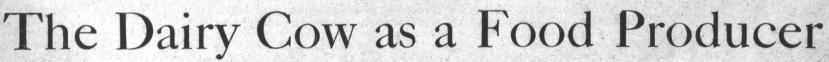
They hold the ears out with the butts downward so that the corn dries out quickly. They are cheap and are quickly made and when not in use can be stored in a small box.-J. Justice.

### ROOT OF BARBERRY HAS MAR-KET VALUE.

Opportunities for the man with business instinct to fatten the family exchequer are seen by the Department of Botany of M. A. C. in the campaign

"I believe there is a good demand in other cases it does not work at all. To the drug market at this time for this be successful you have got to find a bark," says Dr. G. H. Coons. "This, of strata of gravel so that you can get an course, is for the dried bark, not the green."

In some parts of the state shrubs to with a well machine-the kind used the number of five hundred or more for making crock wells. Drill a hole on single estates are being torn out down till you reach a strata of gravel. in compliance with the orders of the 6



the steer as a food producer. Out of stock. the realm of agricultural production, experience usually works such matters out correctly and it is a question of the survival of the fittest. The reason why it is necessary to substitute the dairy cow for the beef steer under such conditions is simply because the dairy cow can produce more food from a given amount of feed and produce it cheaper than the beef steer.

If one will consult Prof. Jordan's book on "Feeding of Farm Animals," they will find that very careful exconclusively that the dairy cow can consume on the average 5.55 pounds the dairy cow is the fact that she re- animals to go.

Digestible organic substance reof edible solids:

Milk (average) ..... 5.55 lbs. Steers (average) .....36.30 lbs. 

This table is worth considering. It they are more profitable.

Hogs come closer in the way of pro- pay as often as once a week.

T is difficult for some people to un- make better use of the food that she of digestible organic substance to pro- turns daily cash dividends. The man derstand why it is that in coun- consumes by way of producing food duce one pound of eatable solids, engaged in dairying gets his pay in tries that become densely populat- for the human family than any other while the steer has to consume 36.3 cash almost every day. People who ed the dairy cow gradually drives out of our various species of domestic live pounds, sheep and lamb 37.9 pounds. sell cream to a creamery get their There ducing cheap food for the human fam- is no phase of dairying where the quired to produce one pound ily than any other of our domestic farmer has to wait for more than two animals, except the dairy cow, produc- weeks to get his pay, consequently, he ing a pound of eatable food from 6.4 can use this money to pay current expounds of organic substance. Here penses. It furnishes a system where-Sheep and lambs (av)...37.9 lbs. again, actual experience has worked by he can do a cash business and this Swine (average) ..... 6.4 lbs. out the problem and shows why hogs cannot be done with any other branch Calves (average) ..... 12.3 lbs. and the dairy cow are more popular in of live stock husbandry. That is one Found that (average) ..... 12.4 lbs. and the dairy cow are more popular in of live stock husbandry. That is one such countries as Germany. England reason why the corr is popular such countries as Germany, England reason why the cow is popular. At and Holland and all other densely the present time, taking into consider-of domestic live stock. It is because price of dairy products, the margin of profit is exceedingly small and yet the periments have been made which show shows that the dairy cow only has to Another great argument in favor of dairy cow will be the last one of these

### All Good Things are Sure to Grow By W. F. TAYOR

E see from Mr. Taylor's article that cow-testers are being put to another service that is certain to make for efficiency. Besides his regular work, the tester in Oceana county will test skim-milk for the members of the association, to determine if the cream separators are wasting cream or not. Have you thought of the advantages it would be to you and your neighborhood to have a man test each cow in yours and your neighbor's herds? It's worth a think.

HAVE no disposition to flatter our ed, and thus if any machine is not county agent, nor to magnify his skimming clean the fact will be disworth to the county. Well, yes, I covered.

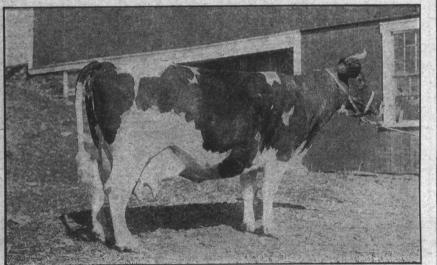
would like to say a lot of good things Already a feeling of most friendly for him for he deserves them, but this rivalry is beginning to manifest itself is not the time nor the place to say and as the time for the tester to arthem. What I do want to make clear, rive draws near, each man's interest is, the county agent has time to do in his herd grows. By the time the very many helpful things, things that tester has been once around and remake strongly for the betterment of sults are known, the interest will be the county, particularly the rural sec- greater in every herd of those cows tions, which could hardly be done at than ever it was before. all, without him.

live county agent.

been a few people wishing and work- of life on account of this organization. ing just a little, for a cooperative cow- When the cows do well, their owners testing association here in Oceana are likewise fortunate. We confidentcounty. Some of the time it has seem- ly believe that the average increase of ed as if the project had gone to sleep dairy products among the members of never to wake up, but so it is with this association, will be not less than most new enterprises. Not that it fifteen per cent, and it may be much was difficult to organize such an effort, more. Something like this is what alhad anyone had the time to spend, but ways follows when men get more inthis matter of time was our limiting terested in their business.

No matter what line of effort we Every county in Michigan needs a may follow on the farm, interest and enthusiasm are essential to success. For more than two years there have The cows are bound to get more out

factor. We were all too busy with But there is another and a greater our own personal matters to give it object in this movement. It is all we the attention necessary to an organi- can do to feed a good cow now and



Here is a Good Holstein Cow-Good to Look at and a High-class Producer.

zation. When therefore we secured a get off without loss. We surely can permanent county agent we saw our not afford to keep the cow that does opportunity.

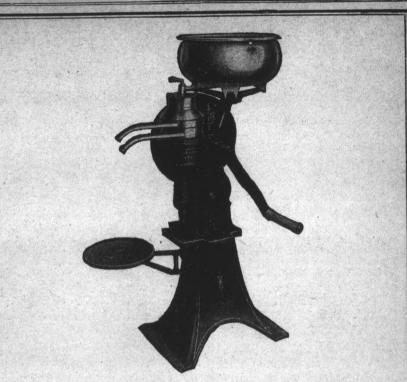
it, it took but a few days to round up will be high. If we do not feed well, twenty-one days' work for the tester in we lose a lot of the valuable food we each month. If our tester is allowed do furnish. The only way to find out to do the "Register of Merit testing" which are the good cows is to test for four of our members this is all we them. The cost of this effort in moncan take care of, as he will have to ey is small indeed, in proportion to the put in four days more on that account. possible good that may be gotten out Twenty-five days in a month is enough of it. for steady employment for the tester. It will take more than the twenty-sixth but the poor ones are "slackers" and day to finish his reports and take care they "fight for the Germans." The only of other extra work that is bound to way to find them is to use the Babshow up.

test cows, owing to conditions grow- Watch for reports of some of our ing out of the war, but we secured a great cows. Watch for the increase in bright boy just out of high-school, and production in our average herds. See he is going to make good.

association is to encourage better of the story. Whenever, wherever methods of feeding and caring for the men begin to think more, as they cows. This young man does not ex- come to test oftener and guess more pect to be able to give much advice in seldom, as gradually they lose their this line, but we have some most pro- faith in the moon, and begin in dead gressive dairymen in our organization, earnest to study the earth and its and it will not be long until he will be mysteries, they begin to grow. Such able to carry from these men's prac- growth means financial and intellectice some extremely valuable hints. tual betterment, and these should rehe tested on every farm where desir-

not pay for her feed. Grain is too high, When he really found time to go at and so long as the war goes on, feeds

Good cows are helping to win the war cock test. The Cow-testing Associa-It is hard to secure good men to tion is the most practical way to do it. the poor cows go to increase the meat One of the objects of a cow-testing supply. But even this is not the best Skim-milk from the separator will sult after a while in moral and spirit-(Continued on page 6).



This is a 750-pound latest style



Acknowledged by cow owners the world over to be the closest skimming, the easiest running and the longest wearing separator

> 360 pounds of butter would have been needed to buy this machine in 1914. 255 pounds of butter will buy it now. 96 bushels of wheat would have been needed to buy this machine in 1914.

- 55 bushels of wheat will buy it now.
- 139 bushels of corn would have been needed to buy this machine in 1914.
- 87 bushels of corn will buy it now.

There neven has been a time when you needed a De Laval so much. There never was a time when you could so well afford to buy it. Don't waste food and money and time trying to get along without a cream separator, or with a half-worn-out or inferior machine. Order your De Laval NOW when you need it most.

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

THE DE LAVAL SEPARATOR CO.



5-5



FARQUHAR Thresher will A FARQUHAR Thresher will of grain in the straw. Our sepa-rating principle is backed by 50 years actual field service. Suc-cessfully handles all kinds of grain with light operating power. Design simple, easy to adjust, and long lived.

Our Rake Separator illustrated above is a most practical and economical ma-chine for the farmer who does his own threshing. For the merchant thresher-man, we offer the celebrated Farquhar Vibrator with Self Feeder and Wind Stacker as shown below. The Farquhar Pea and Bean Thresher and Farquhar Peanut Picker are leaders in their respective classes.

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without tearing up your walls for pipes or flues or heating your cellar. The only pipeless furnace which come only piperso intract with the piperson of th pletely in





n't pall like other cutters. Absolutely no danger. Cuts Four to Seven Acres a Day with one man and one horse. Here is what one farmer says: Gentlemen: Am well pleased with your Corn Harvester as it works equally well in light or heavy corn. I cut 45 shocks in 3 hours, just after a heavy roin when the soil was very loose, but did not pull the corn. Thanks for prompt shipmant. Ire-main yours for success. Yours truly. D. H. SPNINGER. Celins, Ohie

Sold Direct to the Farmer or booklet and circulars telling all about this la ving machine; also testimonials of many users LOVE MANUFACTURING COMPANY seldom, as gradually they lose their bonds. He emphasized the importance these many perfect days and nights, ual growth.

is the giving of our best effort to any to type. cause that helps to make the men and women of a community earnest and resolute in pursuit of a definite ideal that is worth while.

Every dairy county should have a lege will assist you also.

### Holstein Breeders a Live Bunch

HE Central Michigan Holstein Breeders' Association held their annual basket picnic Wednesday, June 19, at the farm home of Gottlieb Balduff & Son. eight miles southwest of Lansing.

The forenoon was spent in a trip about the farm and in looking over the large herd of Holstein cattle. Mr. Balduff has a splendid herd of cattle and a fine dairy farm.

At noon three hundred people assembled on the spacious front yard for the picnic dinner. Mr. Balduff and family were the best of entertainers, providing everyone present with a bountiful dish of ice cream, and then forced the ladies to retreat or put on their gas masks by passing the smokes to the men.

Following the dinner, J. B. Strange called the assemblage to order and announced the first speaker of the day, Mr. N. B. Hull, president of the Michigan Milk Producers' Association. Mr. Hull spoke of the value of the dairy industry at the present time, and explained why it was necessary to have an efficient organization of the dairymen. The work of the association for the past year was reviewed, showing very plainly that the association was doing everything in its power to help the dairy industry. In closing, Mr. Hull said: "The dairymen of Michigan must have a price for his dairy products that will give him a just profit, but any man who will ask more than that at this time, is a slacker and just as much an agent of the kaiser as the

commander of a German submarine." Hon. Fred M. Warner, ex-governor, was the next speaker. Mr. Warner gave the dairymen some very timely advice and suggestions, but he devoted most of his time to rapping the kaiser. He explained the good work of the Red Cross and Y. M. C. A. and urged everyone present to give them their wholehearted support. Mr. Warner drove his points home with extracts from several of his son's letters. His son is now an officer in the American army in France. Each and every one of these letters praised the above mentioned organizations and encouraged. the American people to do all they can to make their work more effective.

This concluded the speeches of the day, the rest of the time being spent in visiting.

### PRESIDENT ATKINS' APPEAL.

At the recent annual meeting of the of fish for supper. Holstein-Friesian Association of America at Milwaukee, President Aitken's hot in the kitchen she believes she address dealt with the splendid part will go out and sit on the porch and the Holstein cow is playing in the pare potatoes for dinner. It's so nice great war, and a special appeal was and shady on that back porch that made to the members to redouble their even the farmer's daughter-in-law, who efforts in order to maintain and in- happened to be visiting and helping and \$52,651 in high-class railroad "porch" or veranda is right in style disposed of for \$14@15.50.

faith in the moon, and begin in dead of state and local Holstein organiza- much more so than it was last Febearnest to study the earth and its mys- tions (of which there are now 176 in ruary. teries, they begin to grow. Such thirty-four states) and asked the mem- And even the bottom step can be growth means financial and intellec- bers to give their support to the prin- utilized by the little kids to play "cat's tual betterment, and these should re- ciples for which each organization cradle" without getting in the way of sult after a while in moral and spirit- stood. Type and breeding was another any other doings thereabouts. And strong feature of the president's ad- sometimes there are other doings on The more we invest in life, the dress, in which he stated that he be- the kitchen porch after dark when one more we are bound to get out of it. lieved that eighty per cent of all the of the big boys on a neighboring farm Better than the investment of money, high-record cows are reasonably true comes over, but more about that later.

### FOUND HARMLESS.

cow-testing association. Your county L. H. Cooledge, of the Bacteriological er who will recall those days when agent will help organize and the col- Experiment Station of M. A. C., have this service started and we printed a cleared up, apparently, the question full page map on the front cover of as to whether milk from cows affected the Michigan Farmer. We helped lay with infectious abortion is harmful to out the first route and made the man human beings. According to Mr. Cool- and our hired man was the first mail edge's experiments, which are being carrier. given to the public in the form of a

### Prices for "Pedigreed" Grains

The Michigan Agricultural College has been informed by the Michigan Crop Improvement Association that the following will be the schedule of prices which will be asked in 1918 for certified pedigreed grains:

Red Rock wheat \$3.25 for lots of over ten bushels; \$3.50 for lots under ten bushels; rosen rye \$3 for lots over ten bushels; \$3.25 for lots under ten bushels; winter barley \$2.90 for lots over ten bushels, \$3 for lots under ten bushels.

This scale, which was determined at a conference attended by Food Administrator Prescott, was based on the government price plus the actual cost of inspection fees, rogueing out the weeds, cartage to station, loss on market value of cleaned seed, cleaning threshers and bins, cleaning and weighing seed and billing and correspondence, plus ten per cent on the added cost of these items only.

technical bulletin, the germs of this diseases, called bacterium abortus, tion could be made if it was properly work only on bovine species of animals. The question is one which within recent years has been of much concern to dairymen and physicians, owing to the considerable spread of in- cement and this partition is so much fectious abortion among the dairy exposed to knocks that it should be herds of the state.

### EVERYBODY WORKS WITH FATHER.

(Continued from first page). get a good edge. Sally finally says she is getting tired, and father wishes he hadn't let Tom go fishing that forenoon, even if it did rain. And Tom feels like a colt and works harder having some fun walking six miles ding-busted old when he gets home with a nice mess

And the farmer's wife says it is so

This picture was taken by the writer some years ago on his home farm BACTERIUM ABORTUS IN MILK near Climax, and it was on this farm where rural free delivery started over twenty-one years ago. There are thou-Investigations recently completed by sands of readers of the Michigan Farm-

The details of a portion of the first route were talked over on this porch. with the government post office inspector and it was on this farm that Michigan's first carrier worked until he shouldered his mail sack and started out on his bicycle to go over his route.

And so this old porch has quite a history. In the picture our father is holding the scythe blade on the grindstone. It is the same old stone we have spent hundreds of hours toiling over, and the old jug is one we carried out in the field for several years. The cob shown is a new one, of course. as we had plenty of them and Hoover hadn't begun to even think about the conservation of corn cobs. One day while cultivating corn we tried to see how close we could come to the jug by casting a small stone at about ten rods. In some way we happened to come as close as the handle and for a spell thereafter the old jug had a wire handle. It cut us deeply to think we were so lucky as to unfortunately hit the handle instead of the jug, otherwise we might have had a new jug.

J. H. BROWN.

### CEMENT STALL PARTITIONS.

I am thinking of putting in model cow stalls with cement partitions, and would like to know whether any readers have had experience with the ce-ment partitions. Osceola Co.

J. E. S.

X.L

I have never seen cement stall partitions in the model stall. In my own it is a wooden partition. I have no doubt but a satisfactory cement partireinforced, but I am quite sure that the cost would be, much more than a wooden partition. The form would have to be made and then filled with thoroughly reinforced, otherwise I am pretty sure that they would be broken out, but they certainly could be made. My judgment would be that a wooden partition would be just as satisfactory and would cost less.

COLON C. LILLIE.

### SILAGE DISPLACES CORN.

Stockmen in Carroll county, Illinois, out to the lake and back, and hopes are finding their silos come in handy scythe will be at this time of corn scarcity and dearsharp enough to suit dad for a spell ness. Stockmen say the corn now being fed to pigs and sows costs them \$1.75 a bushel, and silage is used more generally than ever before. A prominent stockman of that district recently marketed some fall shoats which had been fed corn, oats and rye.

### POOR CATTLE FIND A POOR

Most of the yearling cattle marketed crease the food supply of the world at out in various ways, thought that she of late in Chicago sold badly, as they large. Mr. Aitken showed that the as- would try operating the old dash were poorly fed. Choice yearlings sold sociation now carries in its reserve churn on the cool porch where there as high as \$17.50, but there were many and surplus, \$205,000 in Liberty Bonds, was plenty of company. And so the short-fed yearlings which had to be

Deed-Mol

### What of the Future ONE MAN OPERATES BOTH TRACTOR of Live Stock?

T would seem that the live stock industry of the United States at the present time is passing through a very important crisis in its history. Can it be that the food demand of the world at the present time is bringing to this comparatively new country, cheap food conditions that are identical to those which have been brought about in the older countries of the world long ago?

If we study the history of the agriculture of any of the older nations we find that live stock products-beef, pork, etc., in the earlier history of the country was one of the most common food products of the people, that gradually in the course of time as the population of those countries increased, there was such a demand for grains and they became so high-priced that when fed to live stock the cost of the animal product was so great that they became in a measure prohibitive.

This brought about a gradual lessening of the consumption of animal products for food and a substitute of the grains direct. For instance, the corn or the wheat or the oats grown on a certain area when used direct as food for human consumption will support many more people than it will if it is first fed to live stock and then the live stock products is used as food, consequently, when food becomes scarce the splendid quality of work and the enough there is such a demand for the grains that live stock becomes a secondary proposition.

This explains why there are so many people in the older countries of the world that only have meat once a week or once a month, and we are told that in some countries children grow to manhood and womanhood scarcely tasting meat, simply because the price makes it prohibitive. It is difficult for us in this country to realize any such condition as that, and yet at the present time the market price of grain is so great that the farmer finds it extremely difficult to feed these grains to live stock and produce live stock products at a profit. If this continues, there is only one solution to the problem and that is a reduction of live stock in this country to such a degree that they are largely fed upon roughage and grain wastes or by-products of the country because a farmer will be unable to feed good corn or prime oats or barley to live stock and sell the animal products at a profit.

If this great war had not been thrust upon the world at the present time it would have been years before anything like this would have been brought about. Now it is a question in my mind if the American farmer hasn't got to solve this problem almost immediately. Hogs ought to sell in Chicago today for about twenty cents a pound to warrant a man in feeding them corn at the present price. The wholesale price of butter ought to be forty-eight or fifty cents to warrant the dairyman in feeding his cows corn at the market price and make a profit. The farmer may be willing to do these things for a certain length of time from patriotic motives but the farmer like all other business men, must pay his debts or go out of business and so he will be compelled if things continue as they are, to cut down his live stock so that he only feeds the waste products he raises on his farm to live stock, then there will be such a reduction in animal products that ordinary people canhave meat only occasionally, neither can they have butter regularly as they can now.

Xk

I am not discussing the question whether this will be best or wise for agriculture, but simply calling attention to the fact that this adjustment may have to be made sooner than the farmers of the United Sates realize. COLON C. LILLIE.

VERY farmer who sees the new Moline-Universal Model D plowing is astonished at its speed, ease at which it operates. After seeing the Moline-Universal work, you will realize that the number of plows pulled is less important than the amount of work accomplished.

### **Great Capacity for Work**

Speed, power and light weight are combined in the new Moline-Universal tractor to a remarkable degree. As a tractor to a remarkable degree. As a result, under any ordinary plowing conditions, the Moline-Universal pull-ing 2 plows at 3½ m.p.h. will plow 9 acres in a 10-hour day—equal to a 3-plow tractor traveling 2¼ m.p.h., the usual tractor speed. Thus the Moline-Universal gives you large capacity for heavy work ample power for all helt heavy work, ample power for all belt work on the average farm, with these distinct advantages over other tractorslight weight; greater economy and ease of operation; ability to do all farm work including cultivating, and ONE-MAN control of both tractor and implement

from the seat of the implement, where he must sit in order to do good work.

### **Does Better Plowing**

An advantage of speed plowing is the better quality of the work. With properly shaped moldboards and the Moline-Universal tractor plowing at 3½ m.p.h. the soil is more thoroughly pulverized and compacted than at slower speeds. It is left in such a level and fine condition that furrow marks are hard to distinguish.

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And keep this in mind always-the Moline-Universal is built for positive reliability. The powerful 4-cylinder, overhead-valve, vibrationless engine delivers full 9 h.p. at drawbar and 18h.p. on belt; unusually large bearings lubricated under 35 lbs. pressure; Remy electric starting, lighting and ignition system with governor generator; all moving parts completely enclosed; 15 Hyatt roller bearings; 5 adjustable ball thrust bearings; 7 splined shafts; differ-ential lock; heat treated and steel cut

gears-these give "positive reliability," and make the new Moline-Universal the best tractor money can buy.

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Self starter relieves the back breaking strain of cranking, makes tractor opera tion easy for non-robust help. In fact, many women and boys are successfully running Moline - Universal tractors. The self starter is a feature every overator will appreciate. Electric lights increase the working capacity of the Moline-Universal so that you can use the tractor night and day in the busy season. It gives you an emergency power always available to make up for any unavoidable delays.

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lages and country, any method that period crops that are soon abandoned, can be devised to increase the supply and all that can be secured from the should not only be welcomed but ground on which they grew the same adopted.

planted early in the spring, mature grown in considerable quantities and and are gathered before the season is canned for winter use. No matter but little, if any, more than one-half how the peas are used the crop is out gone. There are other crops that do of the way soon after the first of July not require the whole season in which and the same ground can be used for to grow and mature, that can be very late season crops. handily utilized to occupy the same There are two advantages that ground the latter part of the season should not be overlooked when two which was occupied by the early crops garden crops are raised from a part of the first part of the season.

planted very early in the spring and from that portion of the garden, which require but a short period of time, are should be considered of prime importthe radishes, lettuce and garden peas. ance. In the second place, when a These crops have had their period of valuable late crop is growing on growth and usefulness by the first of ground formerly occupied by an early July. They can be disposed of and the crop, it is pretty likely to be hoed and same ground dug up thoroughly and the mass of weeds that come late in the ground utilized by such crops as the season will be kept in subjection will make the most perfect growth in and not allowed to mature seeds which the fall of the year. Cabbage plants will drop on the ground and give trouset in such ground will make an ex- ble the following years. The early cellent growth and make perfect heads crop rows are generally unsightly porby the last of October and the first of tions of the garden late in the season November.

and the plants are thinned to from sumption in the family, and relieve, in eight to twelve inches apart in the a considerable degree, the draft on rows, they will make a good crop by foods made from wheat. make a good crop.

The radishes and lettuce are not of those who wisely use them.

stuffs are needed to supply the ed in large quantities and laid by for wants of families in cities, vil- winter use. They are among the short season, doubles the income from such Some of the garden crops that are parts of the garden. The peas can be

the garden the same season. In the Among the garden crops that are first place we are doubling the income if they are not utilized for late crops. Early varieties of potatoes can be During these years of scarcity and dug during July and the ground fork- high prices for essential food stuffs, it ed over and either set to late cab- is worth the effort to do all that can bage or sown to yellow bagas. If the be done to double the food products of bagas are sown any time before the the garden. The garden products help twentieth of July, if the ground is rich to make a variety of foods for con-

the tenth of November, the usual time Garden crops, if persistently used, when such crops are gathered. The will not only help save other foods, English turnips can be sown as late but by their beneficial effects on the as the fifteenth of August and then consumers help to promote the health, and consequently the happiness of

### Handling Farm Manure In Rush Season (Continued from page 3).

thrown out in a heap, there is bound to of the shed should be arranged with be some heat with further decomposi- eave spouts so at any time surplus wation of the solid or woody portions. ter may be run on the pile of manure.

proach the barn and if we had not seen with the horse manure, however, it is the sight many times before, we would not necessary to run in extra amounts believe the manure to be on fire, with of water. Added to this, there is andanger of burning up since there seems other precaution which should be takto be much smoke and gas coming out en and that is to keep the flies out. of the top of the pile. However, the The manure pile is the place where gas that is passing off is the most val- flies breed, with all the consequent uable part of the manure. The fact damage which an army of flies can do, that the manure heats, of itself, does and if there are any windows in this no particular harm, but the coinci- manure shed, they should by all meansdence that the manure in heating be screened. The door, however, should drives off the ammonia gas which is be solid and fly-tight. In this way the dissolved in the moisture of the ma- flies will gather on the screens at the nure is the fact which makes it dan- windows whereas if a screen door is gerous to allow this thing to occur.

storage, it is absolutely imperative to directly inside. have the bottom of the pit tightly closed so that the liquid portion of the ma- a manure storage plan and this plan nure will be saved and to have the should have in mind not only the saveaves of the storage house so arranged ing of the greatest amount of the ferthat rain water can be put in from tilizer value of the manure, but also time to time when needed to cool down the bettering of sanitary conditions the decomposing pile of manure and about the farm. There is no one nuiso re-dissolve the ammonia that may ance that causes so much trouble as have been partially expelled by the the fly and since he and his like may heating.

ing elements are so costly, it behooves piles, it would seem that any manure us even more than any other year, to shed should profitably conserve the save all that is available in the supply liquid portion of the manure as well as of farm manure on every farm. To do providing some means whereby the esthis requires some sort of a storage caping ammonia gas caused in heating house. An old shed may be used and may be retained and redissolved in wathe manure dumped into this. With a ter. If in addition to this, this shed is litelt cement and time, it will be pos- by some means or other kept free from sible to hollow out the floor of the shed flies, we shall have a manure storage so that the liquid portion of the ma- that is directly in line with the spirit nure will neither be wasted nor allow- of the times-embodying both consered to leech away. Then too, the roof vation and sanitation.

Sometimes in the morning we ap- If there is enough cow manure mixed used, flies would gather on the door And so in any system of manure and as soon as it is opened they flock

It is necessary to have some sort of be "nipped in the bud" by screening in This year when the various fertiliz- their breeding places, or the manure JULY 6, 1918.

The peach tree borer lives most of its life as a worm embedded beneath the bark of the tree, usually just below the surface of the soil. Here it starts as a very small worm, eating away the life of the tree, getting larger and larger until it undergoes a change into a pupa and then a moth, which lays eggs for more worms to carry on their destructive work on the peach trees. The moths lay the eggs on the trunk and branches of the trees during the summer-most of the eggs being laid during July, August and September. The eggs hatch in from ten to fifteen days and the young borers enter the tree. By frost the borers have all entered the trees and some will be very small while others are nearly full grown.

Leonard Haseman, of the University of Missouri College of Agriculture, offers the following suggestions for controlling the insects:

Draw the soil away from the trunk of the tree to a depth of four inches or until the roots are exposed, and search for the tunnels. With a sharp knife follow these tunnels until the worms are found, and then kill them. The presence of a mass of gum at the base of a peach tree usually indicates the presence of borers. This gum is thickened sap which escapes where the tree is injured. There may be a number of borers in a single tree. The worker should get at least all the large ones before leaving the tree.

### SOME SPRAY PROFITS.

An example of the profits from spraying is illustrated by the experience of Charles Tanzberger, of Missouri. Mr. Tanzberger's orchard is seventeen years old and was never sprayed until last year. He offered his orchard of one hundred and thirty apple trees for a spraying demonstration. In 1917 as a result of proper spraying, the one hundred and thirty trees produced \$1.-897.55 worth of fruit. The total cost of spray materials, together with the cost of labor, amounted to \$84. Thus; the net profit resulting from spraying was \$1,813.55. The orchard had never been profitable before. For example, the same orchard of one hundred and thirty trees, was set just as heavily with fruit early in the season of 1916 as it was last spring, yet it produced without spraying only enough apples for three barrels of vinegar. Mr. Tanzberger says:

"My apples were divided into first and second grades. Out of my five hundred barrels of Winesap apples, I had about eighty barrels of seconds. The culls, which I kept myself, made three barrels of cider.

"I sold all the apples (five hundred barrels) to one man. He paid me one price all the way through, which was \$3.00 a barrel.

"All that I had to do was to pick the apples. The commission man barreled them and stood the barrels and hauled them away from the place also.

Setting late cabbage after the peas and potatoes and sowing turnips, is an old scheme followed by many, and any who may feel inclined to try it need not hesitate. Other crops which require only a part of the summer to make a crop can be raised by a little effort.

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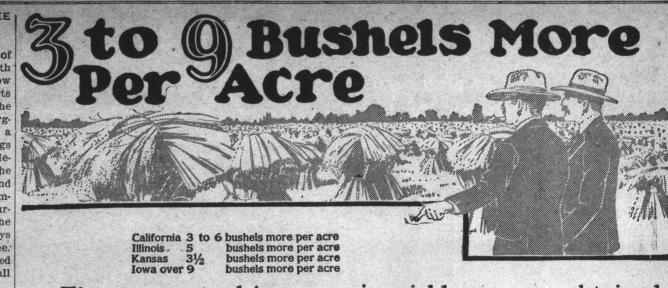
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These are actual increases in yield per acre obtained on big farms in those states for several years by drilling instead of broadcasting. You gain both in yield and in seed saved by using a

### John Deere Solar Van Brunt Fertilizer Grain Drill Plants all the Ground-No Costly Bare Spots

Coarse, medium size or very small seed can be planted with this drill. The force feed used on Van Brunt drills has a *patented* gate, adjustable to handle any size seed from alfalfa to large bearded oats, peas and beans.

All the ground is seeded—no choking up in the seed box. Change in quantity of seed by the feed shifter lever is exactly the same in each and every feed. The force-feed compels the seed to leave the seed box in even, continuous streams, but the seed is not crushed.

JOHN DEERE-VAN BRUNT FERTILIZER GRAIN DRILL.

No clogging up—the Van Brunt successfully plants seed in mud, gumbo or trash. The seed is protected until it reaches the bottom of the furrow.

Disc bearings guaranteed to last the lifetime of the drill. The furrow openers, the hard-working part of any drill are made of highest quality steel.

The highly perfected fertilizer feed cups distribute without clogging or choking, all kinds of commercial fertilizers, in any quantity desired.

> **Grass seed attachment** can be furnished. It sows broadcast or in drills, as you desire. Van Brunt Drills are furnished in sizes and with equipment that will meet your requirements.

### Free Books

"Better Grain Yields From the Same Fields"—32 pages of valuable information on how to select seed, how to test it, depth to plant, best method of planting, etc. Also, "Better Farm Implements and How to Use Them"—a 156page text book on farm implements. Worth dollars.

To get these books, just state he implements in which you are interested and ask for package BF213.

John Deere, Moline, Ill.



### URGE GLASS CANS FOR MAPLE SYRUP.

Michigan maple syrup, which heretofore has wended its way to breakfast tables of the nation in tin containers, will do its traveling in 1919 in glass bottles if recommendations of members of the Michigan Maple Syrup Makers' Association are heeded by producers. The association, speaking through the forestry department of M. A. C., is asking the producers to order bottles for next year so that tin can be saved for war work.

"If glass bottles are used a serious waste can be eliminated," according to Prof. E. H. Sanford, secretary of the association. "The fact that the bottles will make the syrup visible to the purchaser should also make for better sales.

"The objection that it will be much more difficult to prepare the syrup for shipment in bottles is offset by the fact that the glass containers have a market value in every household. If quart jars are used they can be emptied and made ready for the housewives' canning season. The gallon containers can be made use of in 'a similar fashion."

### ENDORSES THE RURAL MOTOR EXPRESS.

The United States Food Administration has endorsed the extension of the rural motor express as an aid to food production and distribution. In a letter to the Highways Transport Committee of the Council of National Defense, Mr. Hoover says:

"The development of the rural motor express idea, in my opinion, is in line of progress and should redound to the benefit of the producer, the consumer and the railroads. This means of transportation should facilitate delivery, conserve labor, conserve food stuffs and should effect delivery of food in better condition."

The rural motor express plan which is already in operation in the vicinity of numerous cities is essentially a regular motor truck service enabling the farmers to send farm products to town and get supplies, machinery and repairs without making a personal trip.

### TO ENROLL WOMEN AS FARM WORKERS.

An effort to find employment in the country for Michigan women who are ambitious to become "farmerettes" will be made this season by the federal office of farm labor, located in Lansing.

"We are not making any special appeal to women to enlist for work on the farms, except in fruit orchards," Director A. B. Cook declared, "but if there are women who would nevertheless like to try their skill in agricultural pursuits we will endeavor to place them with willing employers."

Communications to the local farm labor office, which is federal headquarters for Michigan, need only to be addressed to East Lansing.

A CHANCE TO CONSERVE.

If the 2,300 threshing machines used in Michigan wasted only three or four out of every thousand they threshed, the loss of wheat alone in this state every year would equal a quantity sufficient to furnish a normal supply of bread to a half million people for three months.

### HIGH PRICES FOR SHEEP.

The demand for breeding ewes in the Chicago market greatly exceeds the supply, and it frequently requires a week to fill a buying order for a single carload. Prices are very high, and some ewe breeding lambs were bought a few days ago at \$18.50 per 100 lbs.

# **More Wheat--**Less Labor

Plow your field, follow at once with the harrow and then the Culti-Packer. You can pull the two together if you have a tractor. In nine soils out of ten, you will then be ready for seeding without further work. The Culti-Packer crushes all lumps, firms out the air spaces, and stirs the surface soil, leaving a mellow mulched bed for the drill.

Put the Culti-Packer right back of the drill and you will firm the soil around the seed, hasten sprouting and get the most even, sturdy stand of wheat you ever had.

The Culti-Packer has paid for itself on wheat alone for thousands of farmers, and it is just as good on every other crop you raise-corn, oats, alfalfa, beets, potatoes, rice, cotton, sugar cane.

Fifteen minutes work in the field will prove these claims and show you how to get more wheat with less labor.

Phone Your John Deere Dealer Today-Make Sure of Your Culti-Packer

### **The Culti-Packer**

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A sturdy simple farm tool. Just two rows of semisteel wheels, mounted on 1 3-4-inch axle and fitted with dust-proof roller bearings. Wheels quick detachable for straddling corn.

### Soil Sense

A 48-page book on soils with over 100 field photos. Ask your John Deere dealer or write direct.

Factories at Berea, Ohio





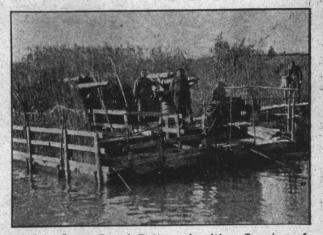
# WORLD EVENTS IN PICTURES



Italians Firing on Enemy Attempting to Cross the Piave River.—(Italian Official Photo).



Lieut. Rickenbacher, U. S. Aviator, Formerly Pershing's Chauffeur.



Italian Camouflaged Battery Awaiting Opening of Austrian Offensive.—(Italian Official Photo).



British Soldiers who Repulsed Attack on Italian Front.-(Br. Official Photo).



Battery Manned by French and British Gunners Resists Enemy.



Children of Royal Family, who are Popular Among Italian People.

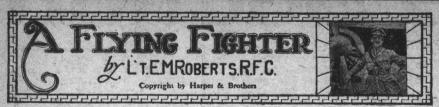
Polish Nurses, Members of Polish White Cross Ready to Sail for France; Recruited by Madam Paderewski, wife of Famous Pianist.

"The Spirit of Mercy," Posed for by Vivian A. Brown, Age Five Years.





King of Italy Keeping in Close Touch with Army .-- (Italian Official Photo). Giant British Gun and Eight-inch Shells Used at Front.--Brit. Official Photo. Copyright by Underwood & Underwood, New York



#### (Continued from last week).

We then sent a message by air to his aerodrome, telling of the fight and the men of his unit a little god, whose burial, and a short time later we re- word is law and whom you dare not ceived the same sort of message con- disobey if you wish to avoid unpleascerning "Pizz," and we all felt better. ant consequences.

But patrol work and artillery fire spotting, with now and then a long reconnaissance trip, were not all of our tasks. We used to take photographs up in the air and found that quite interesting. These things made up our daily routine and it had to be some very exceptional thing in the end whether the job is dangerous or not, which impressed anybody. The exigencies of our calling were such that we grew not only indifferent to danger, but we became also very blase towards keen rivalry, even to a fighting point, among the various squadrons, but what hard feeling there was generally vanished when some man died. In that day in May. We got to the Hun lines case it was found that he had always and they were waiting for us it seemed. ry was held sacred by all.

Routine is likely to give life very commonplace aspects, as we thought, until some daredevil pilot would vol- and I confess that I was thoroughly plane us to the ground and add a few frightened-almost frantic. The pilot somersaults or loops just before he landed in the field, just to break the graphs, and he had to stay within the monotony. Some of the pilots had a habit of just missing the tops of our huts in order that the noise of the mot- little to do. I was kneeling in my seat or might break our sleep in the small and looking for Huns but not a one hours of the morning. We might get came, nor was there any reason why up and curse the man until the air they should in all that "Archie" exhibiwas blue, and shout vengeful words af- tion. The chances were very good that sian ex-czar has been slain by the Red ter him, but that would do no good. the Hun anti-aircraft batteries would guards. The fact is that right down in your get us down without some Heinie havheart you loved the same fellow like a ing to take a risk. We circled and cirbrother.

the ground and shudder at sights that lection of the Hun first, second and they themselves have been responsible third lines as had ever been made. for when over the lines of the enemy. Moreover, you always have a feeling prolong the agony by photographing for any of the boys who are doing their the Hun reserve positions; not that he France one year ago today, and Secre-bit in the danger zone. And after that wanted to, for he was as frightened as tary Baker announces that between bit in the danger zone. And after that wanted to, for he was as frightened as you get into your bus and go up and I was. And after that we concluded we do more of it.

Even a pilot ofttimes stands on the ground and shivers to see some of the our planes in the aerodrome we discovthings another flyer is doing. But he ered that ninety-six holes, of various will climb into his own machine and go sizes, made by high explosive shrapnel up and do the same stunts himself.

son to wish myself back on the ground old bus would have settled down in taking but business basis. For this a commission with wide powers tak a commission with wide powers will be sent. One amplification of the mission's work will be to render agri-shell fire that I had seen. The man the motor might kick up. I was interested in the course which methods who is wounded in the trenches or out on the open field does not fall very far some of the shrapnel balls had taken as a rule, and he has a fighting chance and discovered that many of them had for his life. But the flyer who is hit in come too close for solid comfort. One the air has a small chance, and it made of them, for instance, must have miss- 7 me think of the old saying, "If you're ed my ankles by the veriest fraction of hit on the ground there you are, but if an inch. Another one had gone through breweries you're hit in the air where are you?" the plane near the pilot and accounted

vice for better or for worse and I made leather coat. up my mind to stick to it. I saw a lot of machines shot down in the course of the holes in our planes. They were not There were 573 foe planes bagged in time. Some of them took fire up in the small by any means. One of them was May, and 1,500 tons of bombs dropped air. Others crumbled to bits as they large enough for a cat to be thrown by allied airmen in three months. hit the ground, and in nearly all cases through. I guess that a whole shraptheir crews were killed. Now and then nel case must have gone through the the men in the machine would still live plane. Shrapnel holes in the planes a day or two before they made their and the smaller perforations left by last trip west. But in only a few cases machine gun bullets had ceased to be did men live long after they had come of any consequence to the boys, howto earth from any great height in a ever. machine which was out of control.

the thought never occurred to me that the aerodromes they used to establish my end would come in this fashion.

the commanding officer one day. He old joke. The only performance which needed a gunner for a pilot who was counted at this time was to come hurtgoing to take photographs. I felt less ling through the air for several thou-

because I had no choice, of course. The commanding officer of a squadron is to

So when the officer said, "Roberts, you go with Hyatt as gunner," I said: "Yes, sir."

That was all there was to it. I might have thought a lot, but those thoughts will always remain unspoken. For orders must be obeyed to the letter, under penalty of court martial for cowardice, so reads the little book called King's Rules and Regulations.

We got to a good height in very little everything. There was a great deal of time. In those days the average photograph was taken at the height of from 6,000 to 7,000 feet.

It happened to be a perfectly clear een everybody's friend and his mem- As soon as we stuck our noses over their lines they started to shell us for all they were worth. I had never seen such a shelling of an aeroplane before, was intent upon making good photo-7,000 feet altitude in order to get them. There being no Hun plane up, I had cled over the German lines until Hvatt In the air service men will stand on had taken fifty-six photos, as fine a col-

> When Hyatt had done that he had to might just as well fly back home.

Well, when we counted the holes in sizes, made by high explosive shrapnel had robbed our planes of much of their carrying capacity. A few more and the id hus rould have sottled down in But there are times when I had rea- carrying capacity. A few more and the

I was interested in the course which methods.

However, I had joined the air ser- for a slit nine inches long in Hyatt's lives that Austria will now try to link up the broken salients. It is claimed

I must make another remark about

When I first entered the air service I used to think this thing over, but men still counted such things, and on records based on the number of holes was summoned to appear before in a machine. But that got to be an going to take photographs. I felt less ling through the air for several thou-like flying on that day than I had ever sand feet, land on the nose of the ma-done, but I went nevertheless—I went chine, and then get from under the billions. Of this amount \$15,000,000 is sive is momentarily expected.

make patching up worth while. If that breathe, as they contained a sort of could be done from ten to fifteen thou- gas. Old Randie, one of our pilots, was sand feet, well and good, and if en sent over one day to get a Hun sauroute the gasoline tank took fire, good sage. He went up three times before night. Nothing short of that could get he finally got it. a thrill out of the tough lot they had around the aerodromes.

with the captive balloons of the Huns. moved up or down the road a hundred The purpose of our attacks on them yards before it ascended . Generally, it was to set them on fire, for nothing was from two to three miles behind the short of that could ever hurt them un- lines. less you shot them full of machine gun up rather high, so our machines had a out. With his load of bombs aboard he fair chance at them, if they could sur- started up. The Hun watched him prise them.

captive balloons were of a deadly nature not only in so far that the phos- him, so he had his balloon pulled down phorus they contained would ignite the as soon as Randie came at all near gas, but in addition to that they were him. deadly if dropped on the men in the trenches, as they produced incurable

JULY 6, 1918.

wreck with enough life left in you to burns, and the fumes were horrible to

This particular sausage had had a great deal of our attention. It never We used to have considerable fun came up twice in the same place, but

We all wondered what this Hun was bullets. These captive balloons went up to, and Randie was sent up to find come, for to the Hun an Allied flying The bombs we used to drop on the machine means death in various ways. This one knew that Randie was after

> But the Hun seemed very anixous to (Continued on page 13).



#### Wednesday, June 26.

The Italians have opened an offen-Allies. sive against the enemy in the moun-The tain region; London receives news that the Austrians are penned in on the east side of the Piave, the Aus-trian war office admits reverses along the Piave, but announce the retrograde movement has been carried out in accordance with plans, and without loss of material.

News reaches London that the Rus

The Kaiser puts an army of 3,000 men, with big guns, at Pote on the eastern coast of the Black Sea. 243,436 drafted men are to leave in

the July 1 draft quota. This number includes all of Class 1 with the new of Michigan selects will go to Camp Custer according to this call, for initial training. The first American army landed in

sixty-five and seventy per cent of the 900,000 American soldiers in France are actually combat troops. Texas became a bone-dry state at

midnight June 25.

### Thursday, June 27.

Secretary Baker will start the drawing for new registrants who have attained their majority during the year ending June 5. The lottery will effect 44,500 young men. The state starts an inspection of

breweries which are now "near beer." making Italy expects another blow and be

up the broken salients. the Austrians lost 180,000 men in the attempted offensive.

#### Friday, June 28.

Six hundred thousand Yankee Soldiers now in line ready to meet the expected new German offensive on the western front. This force aquals third of the enemy power for battle, and more American soldiers are reaching France every two months than Germany will be able to recruit in a year

The United States envoys to Russia will be accompanied by an ally "armed guard," one contingent of which will be made up of Japanese troops. It is expected that the United States will take charge of the new eastern front in Russia.

The non-partisan vote defeated the

to be appropriated to the use of the government "shippers' board" The

asks sailors' union to arbitrate in the D. & C. strike. State troopers are stationed at Mon-

roe to watch for violators of the pro-hibition law at the Ohio line. Wm. Alden Smith may enter the United States senatorial race.

### Saturday, June 29.

Allies again block Paris and channel drive; foe is turned back at Ypres by Haig; the French advance on a front of four and a half miles, taking 1,000 prisoners.

Yankee troops now man eight sec-

tors on the western front. President Wilson consults with the French ambassador, Mr. Jules Jusserand, as to palns for aid for Russia. . Murder of the Russian ex-czar is de-

nied by envoy. Northern Michigan suffers a serious

loss from blazing forests; all available men in Otsego and nearby counties are called to help. The loss is estimated at \$75,000.

Lumber mills of W. H. White & Co., at Boyne City, burns. Loss estimated at about \$300,000.

British munition steamship Atlan-tian carrying supplies from a United States port has been torpedoes and sunk, the report states there were no lives lost.

France, through the Chamber of Deputies, has declared the Fourth of July would be regarded as a legal holiday.

#### Sunday, June 30.

Italy's blow weakens foe positions all along the front. The Austrians have lost their offensive and are badly crippled all along the Piave. British yacht fights German torpedo

boat, loses ship, but puts up a bloody battle. Monday, July 1.

The Italians attacking Austro-Hunarian lines on the Asiags Plateau, have taken Monte D' Valbella, captur-ing 800 prisoners and cannon and are holding their positions against repeat-

ed counter attacks. Eugene V. Debs, four times socialist candidate for the presidency of the United States, has been arrested upon

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an espionage charge. Coal allotment to Michigan is con-siderably less than one-half of the domestic requirements of the state.

#### Tuesday, July 2.

Italians take 2,020 Austrian prisonthan north of the Venetian plains, gaining in a several heights where the enemy were strongly fortified. United States havy program is to

be speeded up and work is to be begun at once on the construction of forty-eight new war ships.

The first United States army under General Leggett is now fighting on the front at Cantigny or on the Marne. The army is composed of six divisions or about 220,000 men. two hours.



(Continued on page 15).

alive.

4 1

### The Girl and the Calf By ROSALIND WILSON

my own. When I spoke to my father morning very early my mother was about it, he was also interested, see- looking out of our kitchen window and ing in it the beginning of a herd of saw a black and white calf down the. blooded stock. So the two of us at- road. Thinking it was mine she starttended the first meeting of the Calf ed down the road after' it, but the calf Club at the Farmers' & Merchants' was in a hurry and she lost sight of it State Bank at Carson City, and I sign- before going far. She inquired of sev-



Rosalind and Her Champion Holstein. calf, my father agreeing to back my

note. When the shipment of calves for the club came, my father went to town with me and helped me pick out a good one and bring it home. The first near the house, feeding her skim-milk HERE are some of the boys who Look closely and fondly on this pic-hay and plenty of oats. Then in about Here at the Michigan Farmer. The ture, you farmer fathers and methors two months I turned her into our alfalfa field, where she could eat her center of the business section on hearts. Some of you Michigan Farmer fill of tender alfalfa shoots, though I Main street. Among the hundreds of readers have boys in line marching on continued the allowance of milk and soldiers marching are a lot of boys that street. And remember, we took the children in her department about oats

the ground and I took care of them ture appears in this paper nearly ev- ocean to fight for their country. during the summer.

I kept the calf in the alfalfa field until late in November and then put her in the barn with the other stock. I at once began feeding her carrots and alfalfa hay and as the time came nearer for the calf show, I began feeding beets which I knew were more fattening than carrots and would put her in good condition for the show.

Soon after I got my calf, I discovered that she was very lousy. I asked my father what I should do about it and he advised that I give her an application of Zenoleum and offered to help me apply it. So we made a solution of the proper strength and I held the calf while he put on the "louse killer." All went well until Bossie decided she did not like to be doctored and began to swing her head and switch her tail, with the result that I got spattered all over and even got Zenoleum in my eyes, but I hung on until father finished the job. He thought it a great joke to see me standing there in an old ragged dress with my eyes shut and hanging onto ery one of them may be in France In the first, second and third double suspenders to his Detroit overalls, the calf for dear life. I had to repeat fighting the kaiser and his horde. it in August and again in February. We have made the acquaintance of and to the right of the street are a in a Pennsylvania wash-pan. He sits The last time, however, we tried a many of these boys who tell us the number of farmer boys we got ac- down to a Grand Rapids table and eats new remedy. Someone told me that folks at home take the Michigan Farm- quainted with. Several of these boys Indiana hominy, fried in St. Joseph ashes would kill lice, so I put some on er. On numerous occasions during told us they had read this paper for lard on a St. Louis stove. her back. But one day while I was at the past seven months these soldiers several years and wished they might When breakfast is over he puts a school and my folks were away from from the camp have come down town get the copy that contained this spe- Kansas City bridle on a Tennessee home it rained, and, of course, the calf and marched on our streets, some- cial picture. And it is possible that mule and plows a Mississippi farm happened to be out. The ashes were what as you see them doing in this more than one farmer may be able to covered by an Ohio mortgage. When so thick on her back that they stuck picture. The first few times they ap- send a copy on to the boy over there. bedtime comes he reads a chapter fast and the combination of ashes and peared they did not present quite so This picture is a timely one to ap- printed in a Chicago prayer-book writwater raised big blisters, which it took trim a military appearance but they pear at this time. Here's hoping that ten in Jerusalem, crawls under a pair me some time to heal up.

and would come up to any of us when like the dickens, as the Huns are al- after a glorious victory has been won pi dog, the only home-raised product we called her and sometimes would ready finding out

to raise a calf and have it all for the family. For instance, one ed up for a thoroughbred Holstein eral people whom she met, if they had even went to the neighbors in her search but could find no trace of our stray Bossie. She finally gave it up and came home just in time for breakfast, only to find the calf peacefully nibbling the grass at the end of a

> expense. cost of feeding the calf; that is, I me set a fair price and in this way I Agricultural College. kept my records from month to month. much it cost to feed the calf and tak-

ing it over with my father, I have they keep in the center of the scene and showed them to her. come to the conclusion that it costs and fuss around all the time, and prono more to feed pure-bred cattle than duce nothing useful.

it does grades, and you can always sell them at a better price.

I have thoroughly enjoyed raising my calf, and although I am not sure that I can continue in the Calf Club HEN I first heard of the Calf follow us around when we didn't want during the coming year, I certainly Club, I thought it would be fine her. She even furnished amusement feel that I have been well repaid for my time. I have learned a lot about the feeding of stock and about the im- Miss Smith at home?" portance of raising blooded stock, and although I have done most of the ac- gaged." tual work. I know I would not have been able to do nearly as well, if it I'm what she's engaged to." had not been for the advice of my father, Mr. Stebbins, the organizer of our club, and Mr. Edwards, of the seen a stray Holstein calf, and she Michigan Agricultural College, who took such an interest in our work.

### **OUR FEATHERED POLICEMEN.**

The birds are our feathered policerope. Mother had been chasing a calf men that help protect our crops from belonging to one of the neighbors and, bugs and worms. A mother bird with men that help protect our crops from of course, we had a good laugh at her a nest full of young birds needs two to three hundred bugs and worms a I have kept a careful record of the day to feed them. Plenty of birds around makes a hard drive on our enewould have a certain ration that I mies, the insects. Cats are great bird would feed her and then compute at catchers and especially stray cats, but asked to be shown some tablecloths. As a matter of fact, after finding how even the puss that enjoys a good home A salesman brought a pile and showed the end of the month how many and food loves to hunt birds. The them to her, but she said she had pounds or bushels of feed she had eat- birds should be given all protection seen those elsewhere-nothing suited en ; then I would get my father to help possible.-Extension Division N. Dak. her.

Some men are like bumblebees-

"By the Way" IT WAS HE.

Young Man at the Door .- "Is-is-

Stern Father .- "Yes, but she's en-

Meek Young Man .- "Yes, I know it.

NOVEL PATTERN.



An elderly lady entered a store and

"Haven't you something new?" she asked.

The clerk then brought another pile

"These are the newest patterns," he said. "You will notice that the edge runs right around the border and the center is in the middle."

YOU BET.

Every married man can name one

### NO EXPERIENCE.

A Kindergarten teacher was telling who recently left their farm homes in this picture especially for this paper sparrows; concerning their ways and I knew roots were good for growing various parts of Michigan. They have because it was to be the last time habits. Among other things she said: calves, so I planted some beets and been in training for some time at these boys were to parade outside of "The sparrows eat up the worms. Now carrots. My father plowed and fitted Camp Custer and by the time this pic- Camp Custer before going over the children, which would you rather have, worms or sparrows?"

"I've never had sparrows," piped up a tiny boy near the front.

The solemn truth isn't half as entertaining as a cheerful lie.

It's a lot better for the whole of us to be eating American oats, or rice; or corn or barley, or Irish-American pertaties than to have the Kaiser feeding us German crow at the point of a sixteen-inch gun," says Mrs. O'Flaherty.

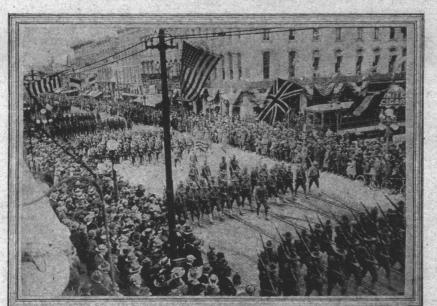
### BUY AT HOME.

In discussing how a lack of cooperation causes waste in getting the product from the producer to the consumer, Dr. Henry Jackson Waters, for-. merly president of the Kansas State Agricultural College, recited the following in his address to the graduating class of the Colorado Agricultural College:

How the Mississippi Farmer Lives. He gets up with the alarm of a Con-

necticut clock, fastens his Chicago center washes his face with Cincinnati soap

on the farm.



From the Furrow to the Trench

By J. H. BROWN

scene is in Battle Creek in the brothers and sisters, wives and sweet-

### Under the Flags of the Allies

ranks of soluters shown in the have now become some of the very every boy may come back again and of blankets made in New Jersey, to be The call was kind of a family pet best soldiers on earth and can fight march in triumph in this same street kept awake by the howl of a Missisipfor keeps.

14-14

product assures quality.

The 3 and 6 H. P. sizes are

built to use kerosene, dis-

tillate, stove oil, tops or gasoline. The  $1\frac{1}{2}$  H. P.

size uses gasoline only

ECLIPSE

Assured Quality Engines

ENERATIONS know that the nameplate "Fairbanks-Morse" on any

This is the famous "Z" engine - all sizes

with more than rated power - that over

150,000 farmers have backed with \$10,000,-

000-to do their work best. No farm engine

Cuts fuel costs in two — the 3 and 6 H. P.

engines giving more than rated power on

You Also Get This Local Dealer Service

Go to the Fairbanks-Morse Dealer. He is in position

to render you prompt and personal service. He has exactly the "Z" for your need in stock

delivery. See it in operation on his floor.

kerosene at half gasoline war-time prices.

ever before has made such a record.



TULY 6, 1918.

### (Continued from page 13).

ed how to get out of a spinning nose dive without injuring himself or the machine. Then the roll was applied while the machine was upside down at the top of a loop.

Soon the scout schools were teaching their pupils to do all such stunts, and they were applied to gain time or to win advantage over an adversary while engaged in combat, or to dodge antiaircraft shells. In this manner the art of flying was developed by leaps and bounds.

It was surprising to see the number of evolutions a machine could be put through by a pilot who could do stunts properly. It was a common courrence too see the machines come back from the lines and patrol work doing all kinds of funny stunts. They would cut all sorts of queer figures like a litter of playful kittens. There were a number of other stunts in which the pilots took pride, such as flying a few feet from the ground behind the German lines, or skipping just over the tops of the parapets of the Hun front lines, using their machine guns as they went. These manoeuvres were very dangerous, but a flying man in his prime never thinks of danger-if he did he would quit flying.

In the early part of 1916 I used to fly as observer for a daredevil pilot best known as K. K.'s one ambition was to touch the wheels of his under carriage on the ground somewhere behind the Hun lines.

Generally when a man does things that are forbidden something happens. Fate seems to punish one for the things that are foolhardy. And if fate had punished K on this special occasion I might not be here to tell the tale. But fortunately fate waited until our return to the aerodrome.

We were up on an early morning patrol, having started at dawn, and there was no action behind the German lines, as was usually the case at that hour in the morning. The sun was just starting to show itself over the horizon and with it came the promise of a fine day, which meant lots of work.

I was busy looking for a battery of German guns which had been reported active the night before, when all at once the Hun aircraft batteries opened fire on us. The explosion of the shells came so thick and heavy that our machine was tossed around by the concussion as if it were a cigarette paper. K shut off his power, and I kept watch to find the batteries that were doing the shooting. I found one on the way down but I soon lost all eagerness to put it out of action, for K made no attempt at getting back to our lines.

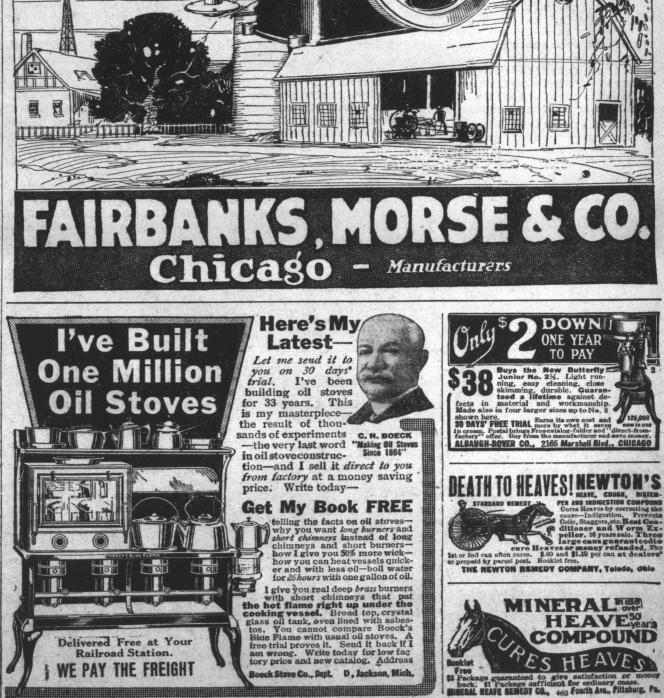
I looked over to make sure that he was not wounded, and, as the engine still turned, I wondered what was happening.

We went down behind the German lines until we were just over the tree tops. K then opened the throttle and the engine responded all right, but he closed it again, and I can't describe the strange sensation I had. I swallowed my heart, and made up my mind that I was to be a prisoner for the duration of the war.

That thought was not pleasant, especially after hearing the hair-raising tales which were told of the way our prisoners were being treated by the Germans. I shouted to K that the engine was all right, but he merely looked at me. I put a drum of ammunition on my Lewis gun, for I had made up my mind to kill him if he were a spy, and then I would make the attempt to fly the machine back myself.

(Continued next week).

A woman may insist on having the last word in an argument, but even after you've granted her that you've got to be mighty careful or she'll start another argument.





# Having the "Time of Your Life"

life in a dull little burg like Nful war was over. I was having the time of my life in those old days, and time I think of home with its safety do it. Tell yourself that it's your part and peacefulness, and realize that I may never know it again. I think now if the war would only end I should never complain again, but I suppose I should. I'm very human after all."

The intensely human element in the writer reveals itself in the one phrase, "I was having the time of my life, and didn't know it." Isn't it the most natural thing about us humans, from the desire to be "big," and their utter lack of realization of the good time they are having as youngsters. Haven't that they "are seeing their best days?" from childhood into the mysterious guarantee a good finished product. and glorious realm of grownupness.

The future ever beckons. When we are grown up we plan to have our good time after we've attained certain objects. When we get a certain salary or can live in a given street or know the best people in our town or perhaps write a book, then we'll be satisfied and enjoy life. But this very prosaic drab today is too ordinary to usual human attitude? We're always going to have "the time of our lives" but never do, just because we do not make up our minds to have that good time today.

Today, that's the only time you're Why not make it the time of sure of. your life? It would be very easy, for having a good time depends entirely on your state of mind and not at all in it called for twenty-five dollars and the presence of the large amount of on the thing you are doing. Haven't fifty cents. When the owner of the bran, which is about twenty-six per you seen some women who were in pump went to pay the bill he said he cent. The bran has no elastic qualitheir glory when scrubbing the kitch- did not object to paying it, but to sat- ties, consequently is not inflated by en floor or getting a tremendous isfy his curiosity he would like to the gas which is generated by the washing on the line before any of the know what the fifty cents was for. The yeast, but it does become inflated with neighbors could, while others were un- man answered: "The fifty cents was water. This has to be met with plenty on excursions or at parties, supposedly and the twenty-five dollars was for period for fermentation, very soft having a good time? The difference knowing how." Skill is not only know- dough and an oven not too hot. Thus was entirely in the mental attitude, ing what to do, but how to do it. An far the bakers have used only twenty-One woman was doing the thing she expert can make good bread out of al- five per cent of substitutes, with this enjoyed, while the other wouldn't en- most any kind of flour. pletely out of tune.

cation is sending out literature on them to the war flours. This, I be- make use of all of them. training little children. In one of the lieve, is a good suggestion. When we While it is not absolutely essential, the shoulder. After an illness have to her. But the advice is none the less handling was caused chiefly by the poured scalding water over it the pre- "Prenatal Care," and "Infant Care."

EW York is a wonderful city, but sound. If we can make ourselves love in making the world safe for democra-I should not care to live here what we have to do life is much easier cy, even if the thing is only washing and during the fermenting period it all the time," writes a woman and we can have our good time daily your own dishes. If you do them will continue to slacken. In the case whose husband's war activities have -and know it. Of course, it is no yourself you are leaving some other of barley it is not necessary to scald. taken her from a small Michigan vil- easy matter to make yourself love the woman free to do the work of a man The period of fermentation should be lage to the wonder city of America. thing you just naturally despise, but who has gone to fight for you. And short as it rises quickly and soon be-"Just think, only a few months ago I at least you can refuse to harbor the while you are having your good time, was chafing at having to spend my thought that you hate it. You can know it. Don't wait for war or some jolly yourself at first with the idea other disaster to come along and open less popular but can be used in much

Now I would give all I possess if we that it isn't so bad after all, and in your eyes to what you've been enjoy- the same manner as corn and oatmeal. were safely back there and this dread- time even the ugliest thing you have ing. Get the most out of each mo- This must be cooked or scalded before to do will come to look good to you. ment, whether you're in the kitchen or Have the time of your life today by out for a good time. Then, and then didn't know it. The tears come every doing the thing nearest and liking to only, will you really enjoy living. DEBORAH.

### Victorious Victory Bread By An Ex-Baker

and acquaintances on this sub- ity of the gluten. ject. I am forced to the conclusion there is considerable defeat in be- toughness to dough. It is the tough cradle to the grave? We see it in ing unable to produce palatable, diges- gray mass found after the flour has children readily enough, their ardent tible, victory or war bread. It is not been washed. It is what makes wet ing white bread, it will burn on the conserving food if we use up good flour sticky. It is this tenacious elasflours and our bread is not edible; as tic quality which makes wheat flour in some cases of which I have heard. superior to all others in bread making. we reminded them time and time over Perhaps there never was a time when Barley contains almost as much glu- sogginess is one of the most difficult so many recipes were given, but a ten, and oatmeal a considerable larger things to avoid. This certainly must Yet their keenest desire is to get away mere cold formula is not sufficient to percentage, than wheat, but the elas-

upon arriving, examined the pump caused most of the trouble. with one blow of the hammer the dif-

S I have conversed with friends difference in the character and qual-

tic quality is lacking. Corn and rice form of food that is more destructive There is an element in skill that is have a much smaller percentage of to good digestion and good health. never written in a recipe. I heard of gluten and are also lacking in this Pans much smaller in size should be a man once who had trouble with his quality. If this is borne in mind when used. Loaves weighing from one pump; after exhausting his own skill using them in bread making it will he called in the aid of an expert who, eliminate the difficulty which has

When whole-wheat flour is used ficulty was ended. When the bill came alone the chief trouble is caused by war bread can be made with success,

The following table shows the comparative chemical composition of wheat have a good time in. Isn't that the and other bread-making materials and their caloric value:

	Pro.	Car.	Water.	Fat.	Ash.	Fiber.	Fuel Value.	
Oatmeal	16.1	67.5	7.3	7.2	1.9	.9	1860	
Rice	8.6	68.0	8.5	6.1	8.8	16.1	1680	
Wheat entire	13.8	71.9	11.4	1.9	1.0	.9	1675	ĝ
Wheat patent	11.7	74.5	12.3	1.1	.4	.1	1650	ĝ
Corn	7.1	78.4	7.1	1.3	.6	.9	1645	ŝ
Barley	10.5	72.8	11.9	2.2	2.6	6.5	1640	
Rye	6.8	78.7	12.9	.9	.7	.4	1630	ij

happy and irritable when at picnics or for hitting the pump with the hammer, of yeast in order to hold it up, a short with and teeth each morning. As the amount there is not much difficulty, this, but free clinics have been estabanything because she was com- The suggestion has been made that but when we are obliged to buy one the former recipes be used as a base pound of substitutes for every pound lished in of white flour, a larger percentage light or stare at the lamp. As the

articles is the admonition, written by a mother, "Love what you have to do," were using white flour alone every yet in order to get the best results, them refrain from reading or close with the further sage advice to moth- new lot that we received had to be the cornmeal and oatmeal should be work until they are thoroughly strong. ers to "retire into themselves several tried out before we knew definitely scalded. This breaks up the starch See that your schoolhouses are proptimes a day, no matter how tired they how it should b handled. Sometimes and enables it to become more thor- erly lighted. feel, and repeat these words, I love the flour was very weak and the dough oughly united with the wheat flour. Helpful suggestions for the care of what I have to do."" I know at least had to be made exceptionally stiff, The proprietor of one of the finest both eyes and teeth may be secured by one mother who would have to live in while at other times it was very strong bakeries on the south side of the city writing the Chief of the Children's Bua chronic state of retirement, the care and the dough had to be made very of Chicago, recently told me that when reau, United States Department of Laof small children is so entirely foreign soft. The difference required in the he put the oatmeal into a bowl and bor, Washington, D. C., for pamphlets,

vious evening he always had the best oatmeal bread.

When scalded flour is used the doughs must be set quite stiff as much water is absorbed during this process, comes exhausted. On account of the much higher price of rice flour, it is using.

One of the most important things in connection with being successful with all these different kinds of bread is the baking off, and the size of the loaves. Pans used for baking onepound loaves of white bread will require two pounds of war bread in order to fill the pans sufficiently to give the dough support. When thirty-three to forty per cent of war flour is used it is difficult to bake it thoroughly. Gluten is the element which gives This amount will require one hour or more.

If the oven is as hot as when baktop before the center is done, consequently the oven should be at a moderate heat. With loaves of this size be avoided as there is nothing in the pound to one and a half gives much finer results and can be baked through without difficulty.

When these ideas followed out can be digested, and can be eaten with considerable relish.

20

### CLEAN THE BABY'S TEETH.

Good sight is perhaps the most important thing in life, yet more than one-fifth of the men rejected for army service were rejected because of defective sight and one-half as many more were rejected because of poor teeth. Mothers are being urged during this national baby year to give more attention to the care of the eyes and teeth of their children.

The child's teeth should be cleaned as soon as it has any. Wrap a bit of sterilized muslin around the finger, dip in boracic acid solution. and swab the his own teeth at least twice daily. At least once a year, if possible, have a dentist look his teeth over and fill any cavities. Many parents cannot afford

Do not let the baby lie in strong sun-The United States Bureau of Edu- from which to work and then adapt must be used in bread in order to children grow up, see that they study

MICHIGAN FARMER PATTERNS.

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

Little Cubes of Sugar Little grains of wheat, Save them with the bacon And other kinds of meat.

Ill-fed fighters weaken Ill-fed nations yield. It's up to us to keep our allies Strong to take the field.

rood

LITTLE CUBES OF SUGAR.

Every dinner table Wherever people eat, Will help decide the verdict Victory or defeat.

COMBINATION MUFFINS.

The following recipes have been thoroughly tested by specially trained spe cialists and housekeepers: Barley Flour and Oat Muffins.

1 cup milk or water,

1 tablespoon fat,

2 tablespoons syrup,

2 eggs.

4 level teaspoons baking powder,

1 teaspoon salt, 1½ cups barley flour,

3/4 cup ground rolled oats.

Buckwheat and Oat Muffins.

Same as above, using one cup buckwheat and three-fourths cup of rolled oats Buckwheat and Corn Muffins.

Same as above, using one cup buckwheat and one cup corn flour.

Barley and Corn Muffins.

Same as above, using two and onethird cups barley flour and one-half cup corn flour.

Oatmeal and Corn Muffins. Same as above, using three-fourths cup ground rolled oats, and one cup of corn flour.

Buckwheat and Barley Muffins. Same as above, using one-third cup for the blouse, and 2% yards for the of buckwheat and two and one-third skirt. Price 10 cents. cups barley flour.

#### CONTRIBUTED RECIPES.

Household Editor .- Being interested in the recipes for using substitutes, I am sending some which I find very good.

Molasses Cookies.

3% cup shortening, 2 eggs,

38

1 cup molasses,

- 1 cup hot water,
- 2 teaspoons soda dissolved,
- 1 teaspoon salt,
- 4½ cups barley flour, 1. teaspoon cinnamon,
- 1 teaspoon ginger,

Drop from spoon on greased tin and bake in hot oven.

Oatmeal Cookies. 2 cups sour cream,

1½ cups sugar,

2 eggs,

2 teaspoons soda dissolved,

1 teaspoon salt,

1 teaspoon cinnamon,

- 1 teaspoon vanilla,
- 3 cups oatmeal.
- 2 cups barley flour.

Drop from spoon and bake in hot oven. This recipe will make about fifty cookies.

- Corn Bread.
- 1 cup molasses,
- 3 cups sour milk,
- 1 egg,
- 2 teaspoons soda,
- 1 teaspoon salt,
- 3 cups cornmeal, 2½ cups barley flour.

This will make two good loaves. Bake in moderate oven until the bread shrinks from sides of tins.

Money and time spent to beautify the home is the best investment one can possibly make. The department, at and Washington, the M. A. C., or the Uni-ladi versity of Michigan will gladly furnish any information along these lines.



es bust measure. Size medium re-quires 5½ yards of 36-inch material.

No. 2104—A Charming Lounging Robe. Cut in four sizes, small, medi-um, large and extra large. Size medi-um requires 614 yards of 44-inch mate-



No. 2455-Girls' Dress. Cut in four sizes, 8, 10, 12 and 14 years. Size 12 requires 21/2 yards of 27-inch material

No. 2479-Girls' Dress. Cut in five sizes, 6, 8, 10, 12 and 14 years. Size 12 requires 3% yards of 44 inch mate-rial. Price 10 cents.



for Misses and No. 2473—Dress Small Women. Cut in three sizes, 16, 18 and 20 years. Size 18 will require 5¾ yards of 36-inch material. The skirt measures two yards at the foot.

No. 2480—Ladies' Dress. Cut in six sizes, 34, 36, 38, 40, 42 and 44 inches measure. Size 38 requires six material. The skirt bust measure. Size 38 requires six yards of 36-inch material. The skirt measures a little more than two yards at the foot. Price 10 cents.



No. 2137-Girls' Dress. Cut in four sizes, 4, 6, 8 and 10 years. It requires 3% yards of 36-inch material for an eight-year size. Price 10 cents.

No. 2450—Sun Bonnets for Ladies ad Girls. Pattern including both styles is cut in one size—medium for ladies, and girls. It requires for No. 1, 1½ yards; for No. 2, 1¾ yards of 32-inch material. Price 10 cents.

### The Mystery of Rubber

raw materials in general use, the one that is least understood by science is one that is most common-rubber.

Few people realize that of all the.

Rubber still baffles the skill of the chemist.

When rubber is vulcanized, no one knows what actually

takes place. No one knows why continued pressure on a sheet of rubber has the same deteriorating effect as heat. There are theories galore, but no positive accepted truths. Rubber

makers still have worlds to conquer.

tubes.

car itself.

premature old age.

This is why it is possible for there to

be such an amazing condition as exists

today in the manufacture of inner

By the control of a secret process, the

Empire Rubber & Tire Company of

Trenton, N. J., have been able to

make a tube which instead of having

to be replaced every year or so,

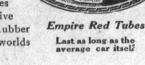
ordinarily lasts as long as the average

What usually junks an inner tube is

After the ordinary tube has been in

service about so long, it gets brittle

and "checky" and finally won't hold



itself usually possesses, For twelve years this secret process has been used in making Empire Red Tubes. In all that time, there has

air. But the Empire process gives to

the tube longer life than crude rubber

never been an off year, nor a change in the process, because no improvement has been neces-

sary.

Many of the first tubes made by the Empire process are still in servicepunctured and patched up but yet in the running.

This record of ten years has proved that in the vast majority of cases an Empire Red Tube will last as long

The only mystery about Empire Red Tubes is how they are made.

as the average car itself.

Everyone knows the superlative service they render.

They have changed the status of the inner tube from that of an accessory that wears out and goes to the junk-heap to that of a part of the permanent equipment of a car.

Use Empire Red Tubes and cut your tube expense in half.

The Empire Tire Dealer





then you'll get the real deliciousness of pure, fresh, fragrant leaves blended to perfection. At your grocer. Sealed packets only.





No. 2457—Ladies' Apron. Cut in four sizes, small 32-34; medium 36-38; large 40-42, and extra large 44-46 inch-es bust measure. Size medium re-

Price 10 cents.

Price 10 cents. rial.



# College Awards State Championships

Profit from farm flock of hens \$276.55.

ciency in food production? No, within the state. they are not imaginary figures-they are a summary of real reports from ear method," he said, "and then I real boys and girls who have been plowed the field early in the spring boy who made out better with his awarded the crop and garden championships of Michigan. The selection of the winners was made by the Boys' and Girls' Club Department of the college from among the 30,000 young people who, during 1917, were members of boys' and girls' clubs in every part of the state.

When Michigan undertook to do its bit in 1917 towards helping keep the boys in khaki well supplied with food, the Boys' and Girls' Club Department of the M. A. C. called on the young people of the state to enlist. These young people, between the ages of ten and eighteen years, were formed into gardening clubs, poultry clubs, corngrowing clubs, bean-growing clubs, and a number of other producing organizations.

The most efficient producers from among all these, and there were in the neighborhood of 30,000, have been selected as the all-state champions.

The coveted ribbons for corn growing were awarded to Harold Ray Coffman, seventeen years of age, of St.



Harold Coffman, the Best Corn Grower.

Johns, in Calhoun county: Glenn Whidby, sixteen, of Delton, won second place. The championship in bean producing was won by Glenn Aldrich, thirteen, of Big Rapids, and first place among the gardeners was won by Frederic Kibbee, sixteen, of Coldwater. A girl, Miss Ruth Coller, sixteen, of Ceresco, was best among the members of the poultry clubs, and Miss Bertha Collier, fifteen, of Battle Creek, was selected for first place among the members of the garment making clubs.

And here let it be said that it was ability, and not luck, which enabled the champions to win as they did.

Take the case of Harold Coffman, the boy who won the corn prize. He Bertha Collier, an Expert at Garment barvested eighty-three bushels of shell-Making.

Profit from one acre of corn \$133.03. ed corn off an acre of land. From this in club work and have something of the Creek, who during the year made Profit from one acre of beans \$158.40. he realized a net profit of \$133.03, be his own there would be fewer boys articles valued at over \$40. Profit from a small garden \$113.00. cause much of his corn was of such leaving the farm to go to the city." good quality that he was able to dispose of most of it at seed corn prices. who won second place among the corn among this year's club members will Harold's account of the methods he clubs, did almost as well as his St. be announced.

OW do these strike you, Mr. pursued to achieve these results might Johns' rival. Glenn harvested 88.7 Farmer, as examples of effi- well be followed by many of his elders bushels, but he was not able to make "I tested my corn by the individual from his acre were \$98.95.



Ruth Collier, the Girl who Won with Poultry.

and allowed the stock to run on it until a week before I planted the corn. This firmed the soil so that there were no air spaces in it. Then I planted my corn and it came up in about two weeks. I kept the ground well cultivated until the tassels began to appear. "My corn was caught by the frost

on October 6, but it was nearly ripe by this time. I went through and selected the seed corn and began harvesting on October 15 and finished on October 30.

"The best method of curing the seed corn, I found, was to hang the ears without touching, in an upstairs room, with the windows wide open.

"If I had to raise my acre of corn over again I could cut the cost of production and could also dry more seed corn. I believe that if every boy on a farm was given a chance to take part

#### The Boy who knows Beans, Glenn urich, of big naplus.

try. chickens with a total net profit to her- Agriculture. self of \$276.55. Her total income for the year was \$393.58. In addition to district, county, township and city supthe state prize. Ruth also won two ervisors at work on a paid basis, while county prizes.

A Coldwater boy, Frederic Kibbee, also enlisted. started out with a plot of ground threequarters of an acre in area, and from was able to sell for \$190. His expenses calf clubs, thirty-five pig clubs, sevenfor the summer were \$77, making his ty-five poultry clubs, ten sugar beet profit \$113.

awarded to Miss Bertha Collier, of Bat- ning clubs.

All the young people will hold their Glenn Whidby, of Delton, the boy honors until 1919, when the winners



Glen Whidby, of Delton, a Close Second with Corn.

### LEADERS OF JUNIOR CLUBS TO CONVENE.

The thousand leaders of the Boys' and Girls' Clubs of Michigan will meet at the Michigan Agricultural College at East Lansing from July 9 to 13 for a five days' conference. The conference, which will be in the form of a training school for club workers, will consider plans for the further enlistment of the younger generation of Michigan's citizens in the work of food production. E. C. Lindemann, state, leader of Boys' and Girls' Clubs, and Miss Anna B. Cowles, leader of the Girls' Clubs, will direct the deliberations.

### CLUB NEWS.

Fifty thousand Michigan boys and girls whose homes are in eighty different towns and cities, are plying their hoes and raising crops this summer to help whip the Hohenzollerns.

"Eighty Michigan cities are carrying on organized work for children," but there are probably many more cities where gardening work is being done. The eighty municipalities mentioned are simply those in which the work is organized under the Boys' and Girls' Club Department of the M. A. C. During the year she raised 246 and the United States Department of

> There are also seventy-four state, one thousand volunteer workers have

In addition to these gardening clubs there are approximately fifty corn this he secured garden crops which he clubs, seventy-five potato clubs, ten clubs, thirty bean clubs, ten sheep The prize for garment making was clubs and one hundred and fifty can-



Glenn Aldrich, of Big Rapids, the beans than any of the hundreds of others who took up bean growing, harvested a crop of twelve bushels from a plot of ground about nine-tenths of an acre

in extent. He was able to sell his crop for seed at \$15 a bushel. Glenn fooled anthracnose and blight, the two old foes of the bean crop in

quite as much profit. His net returns

Michigan, by scrupulously selecting his seed. "When I sold my beans in 1916 I selected the seed I planted in 1917," his report says. "I also hand-picked them because I thought I would get

better results. I removed all the diseased, bruised and small beans from the seed I was going to plant. "The way I overcome diseases is to

select large, healthy stocks before threshing and have these threshed separate for seed, and pick out the diseased beans if it is necessary." Made Poultry Pay.

Miss Ruth Coller, of Ceresco, was most successful among the boys and girls who undertook to help with poul-



### JULY 6, 1918.

### 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.

### Thinks Big Farmer Now it has occurred to me that there are two plans that might work Favored

subscribe to and receive six other farm devise means to help them over the magazines, to which I am writing this same request, as it is a question which is of interest to the general farming public. So I feel that you will not disappoint me when I ask you to discuss would be found and by settling in colit through your columns, and I shall onles most of the hardships could be watch closely for it.

MR. BLANK, Paw Paw, Mich.:

refuse your application for a loan, ow-ing to the fact that there is not enough land in this tract to be called a farm.

H. K. JENNINGS, Sec'y. Federal Land Bank of St. Paul.

1. How much land is required to constitute a farm?

2. Does the federal land bank law as enacted, designate how much land shall constitute a farm, subject to a federal loan?

3. Does the same law arbitrarily grant to the executive committee of any federal land bank the right to say how much land shall constitute a farm?

4. If this law does grant such powers to any committee, then it must be best suited to these localities and help one more law enacted for the benefit solve the problems, but it would not of the big fellow. Am I right?

The farm in question contains seventeen acres and is operated as a general farming proposition. It has build- large numbers of young cattle on the ings worth \$1,000. The owner sought vast areas of waste land to be fur-\$500 for the purpose of paying off an nished in southern counties where the incumbrance of \$500, also to complete grain is easier to get, thus saving started improvements.

ed by local committee, also the bank's question and be a good thing for the representative. The Michigan Trust state besides. Co., Grand Rapids; the Ancient Order of Gleaners, also the cashier of the local bank affirmed this loan. Surely the security was ample. Personal equation must be right. Then why should the federal bank refuse unless they wish to go on record as helping the big fellows? V. C. SHERROD.

#### NORTHERN MICHIGAN.

tion in regard to food production and How many little chicken coops would food conservation it would seem that the present is an opportune time to used for a leanto shed. Three or four exploit the advantages of settling the of them would build a hen coop. large tracts of cut-over land in the northern part of Michigan.

ing to settle northern Michigan. There tool shed large enough to hold all the are the large lumber companies who tools on an eighty-acre farm, and to hold the bulk of it and don't pay my mind it would have been put to would, as soon, or rather hold it until stead of defacing our public highways. it is worth more but, of course, that Such waste of lumber helps to inwon't be until someone else has done crease the price and the man who some real work.

Some of these might be classed as the manufacturer charges enough land sharks. They feel that their more for his products to pay for the responsibility ends when they have se- lumber used .-- I. H. W. cured a payment down that will make it an equally good deal for them whether the buyer makes good or not.

Then there are the development bureaus. These are made up partly of letter by M. N. S. on "How Far Should the two classes just mentioned, to- the Farmer Go?" is in full accord with gether with some sincere people who my way of thinking .-- W. H., Reading, would really like to see some results. Michigan.

out in this region. One would be a sort of colonization under the super-S I am an old subscriber to the vision of the state or some other re-Michigan Farmer and value it sponsible agent that would give proshighly, all of its contents, I also pective settlers confidence and then hard places by going at it in a systematic way, selecting a suitable location and advertising so people would be acquainted with their plans. Settlers eliminated. In some cases even, one team and set of tools might do for two families. Lime and fertilizer Dear Sir:—The executive committee might be bought in carlots, educational of this bank has found it necessary to and social problems would take care of themselves, good roads and all their attending advantages could be had, such as rural free delivery, etc. Also telephones and even railroad branches, and presto, this wilderness of brush would blossom into a happy and pros-perous settlement that would soon take care of itself and grow till northern Michigan would instead of being almost a disgrace to our fair state, become a rich and beautiful section

How about the frost, someone asks. Well, it has been proven that settlement in extensive tracts tends to lessen the danger of frost and experts could determine what crops would be accomplish anything to get the colony started, then forget. The other plan would be for men of means to graze large numbers of veal calves to grow This property was favorably apprais- into beef which might help on the food

HENRY DALE.

### DOING THEIR BIT (?)

Not long ago while traveling one of the main roads to the county seat my eye was greeted by a huge sign board, featuring the automobile industry.

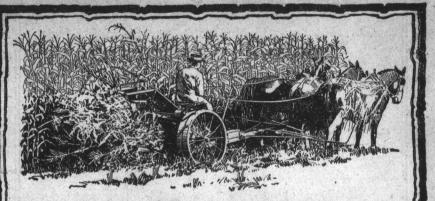
Now I am not saying a thing against the automobile for they are all right in their place, but look at the amount At this time of unprecedented agita- of lumber used in a sign 10x30 feet. it build? It would house a binder if

This sign board set me to looking around, and on a seven mile road there There are three factors at work try- were sign boards enough to build a axes on it so but that they better use if it were housing tools in-

builds on his farm has to pay increas-Then there are real estate agents. ed prices for his lumber. And again,

### AGREES WITH M. N. S.

I would like to state that the recent



### **Corn Harvest Help**

WHEN you are wondering where on earth you will get help to cut or husk your corn this fall, remember this:

or two men to handle the job, will cut six to eight acres a day, bind the corn into neat, easily handled bundles, and load them on a wagon to be hauled to ensilage cutter or husker and shredder.

Or, if you must leave the stalks in the field, a corn picker will take off all the ears, husk them, and load them direct into a wagon, also at the rate of five to seven acres a day. If you use a binder, you get all the crop. If you use a picker, you get all the ears. The same help that planted and cultivated your corn can harvest it, at the right time, and at the lower passible expense. the lowest possible expense.

### Deering, McCormick, Milwaukee, or Osborne Corn Binders **Deering or McCormick Corn Pickers**

furnish the best kind of corn harvest help. There may be enough of them to go around this fall, but if you want to be sure of having your machine in time, place your order with the local dealer, or write to us for full information, just as soon as you can.

International Harvester Company of America (Incorporated) USA Champion **CHICAGO** H Deering McCormick Milwauko Osborne

### **An Organization for Michigan Farmers**

More than \$1,000,000.00 of business written the first year. This proves the demand for our Company. More than \$120,000.00 of first real estate mortgages on deposit with the state treasurer which proves our responsibility.

Your liability can be protected by our reliability This is no time to take long chances. In these critical times "safety first"

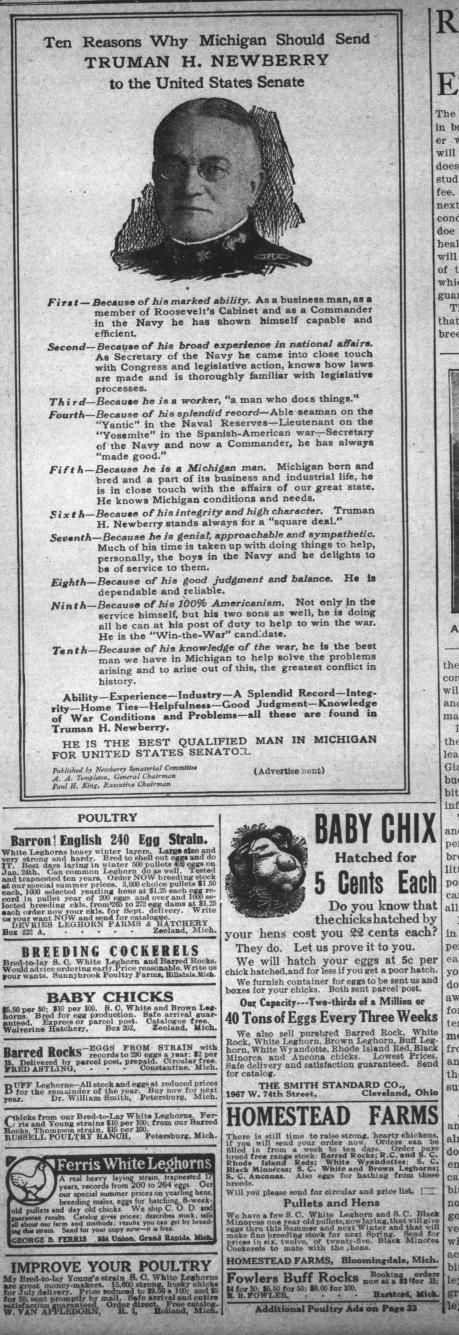
should be the watchword. Cooperate with us and insure your livestock against death from accident and disease and thus save more than \$3,000,000.00 annually to the farmers of Michigan and to society.

Consult our local agent in your vicinity. MICHIGAN LIVE STOCK INSURANCE COMPANY Harmon J. Wells, Sec.-Treas. Graebner Bldg., Saginaw, W. S., Mich. Colon C. Lillie, Pres. 319 Widdicomb Bldg., Grand Rapids, Mich.



Additional Stock Ads. on Page 23

JULY 6, 1918.



20-20

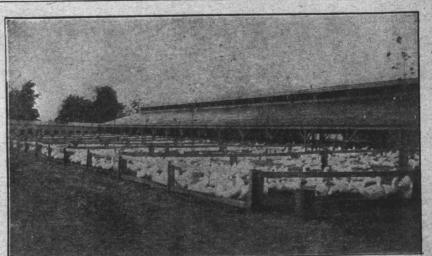
### Rabbit Breeding and Feeding By G. A. BALDEN

The most important thing to consider variety of good wholesome foods that in breeding rabbits is nature, the near- if properly fed will bring results and er we can follow nature the greater for a nursing doe and her young nothwill be our success. If you have only ing is better than milk, bread, rolled does and no good buck, find the best oats, some carrots and oats, either stud buck possible and pay the service ground or whole, and nice clover or fee. It will be money well spent. The alfalfa. Young growing rabbits require next important point is the healthy more feed than a matured one and condition of the stock. If a buck or must be fed accordingly. doe shows signs of being sickly or un- The large breeds, like the Flemish healthy, refuse to breed them, for it Giants, should have feed of some kind will take many breedings to breed out before them constantly. They will not of the stock the sick. diseased blood overeat. While Belgian and smaller which has been bred into it at an un- breeds will overeat if given the chance. guarded moment.

that must be observed with every minutes. breed of rabbits, and that is to breed Feed regularly, and give plenty of

 $\mathbf{E}$  ACH breeder thinks his method bread occasionally, boiled vegetables is the correct one, hence we find mixed with cornneal, barley meal and many methods used in breeding. bran, also alfalfa meal. We have a

Feed only what they will clean up in a There is one very important point short time, say about twenty or thirty



A Commercial Poultry Plant Run by One of the Large Packing Houses to Supply its Demand for Ducks and Geese.

### condition. Failure to observe this point disinfect, and you will be well repaid will result in rough coated youngsters for all your trouble. and many times Angora coated will make their appearance.

Do not breed your stock too young, they should be seven months old at. least and twelve months for Flemish measure quality by the flexibility and Giants is even better. This is for fineness of the egg sack. A hen with bucks as well as does. As a rule, rab- large capacity, but having a thick, fat, bits over three years old will produce flabby egg sack, or an inflated egg inferior stock.

another interesting subject, and de- capacity having an egg sack that is pends largely upon the object of the thin, mellow and contractable as breeding. If for the shows, about two shown in illustration. Therefore, we litters is right, and for general pur- say the greater the capacity combined pose as many as five litters, but good with contractability of the egg sack, care is necessary if this many are the more eggs we can expect. allowed.

in breeding stock is to have it in a when applied in conjunction with caperfectly healthy condition, as any dis- pacity. Both are necessary characterease or deformity will be bred into the istics of a heavy layer. They indicate youngsters, and never breed bucks or the possibilities of the individual does with coats showing moult. Do mechanism within the hen. The acaway with old stock as fast as possible, tual efficiency in egg production will for it is of little value for breeding af- then rest with the person operating ter three years of age. The correct the machinery. method is to breed the finest stock from the best strains, free from moult and disease, that it be young and in the pink of condition-such breeding is sure to bring results.

#### Feeding.

domesticated, vegetables must be giv- of meat. en sparingly, never wet, as that will Of those raised primarily for meat, cause "pot belly" in the strongest rab- such as the Belgian, New Zealand, bit. Oats are considered the most Flemish, and similar varieties, the nourishing of all the grains, barley is young animals are most prized. The good, but heating. Most of the root meat is of good flavor, practically all vegetables are good, especially carrots, lean and is prepared in much the same which are really a necessity, as they manner as chicken. In Europe rabbits act as liver medicine and keep the rab- and hares are staple foods and are bits in good health. So with oats, bar- raised in well developed rabbitries. ley, carrots, turnips, beets of all kinds. The production of rabbit meat is most green alfalfa or clover, vetches, pars- practical on a small scale for home or ley, kale, clean sweet hay, a piece of local consumption.

them when their coats are in perfect fresh water. Keep your hutches clean,

### HOW TO PICK THE FARM LAYER.

(Continued from page 3). sack, will not produce nearly so large The number of litters in a year is a number of eggs that a hen of equal

Capacity determines the length of Remember, the most important point cycle-quality determines the rythm

### FACTS ABOUT RABBIT MEAT.

Suggestions by the Food Administration that hare and rabbit are suitable substitutes for the means neede a ior A variety of feed is of great import- export have added to the general interance. Naturally the rabbit will eat est in these little animals. Rabbits almost anything herbaceous, but when and hares vary considerably in quality

JULY 6, 1918.



SHORTHORNS



Warts on Teats—Thin Cow.—Could you tell me of a remedy for warts on a cow's teats? She has never had them until after dropping her second calf, which was in January, 1918. Would be glad also, to know how to make her gain in flesh. She is past three years old, has a good appetite and good feed, but she does not pick up in flesh— looks sort of bony. C. W. DeB., Bed-ford, Mich.—The cause of warts is none too well understood; however, a wart very often follows an abrasion or irritation of the skin. Warts on the teats of cows are often very trouble-some, yet they may be greatly benefit-ed or entirely removed by smearing them thickly after each milking, with pure olive oil. However, if they per-sist it is well to cut them off with a sharp pair of scissors and touch the sore with a stick of lunar caustic. It is also good practice to continue ap-plying the oil, and whereever the wart sore with a stick of lunar caustic. It is also good practice to continue ap-plying the oil, and whereever the wart persists in growing, touch it occasion-ally with the caustic. If you will give this cow ½ oz. doses of Fowler's solu-tion of arsenic, it will act as a tonic, besides, it will greatly assist in remov-ing and prevent the growth of warts. ing, and prevent the growth of warts. Kindly understand that drugs will not put flesh on stock—this must be done by furnishing the animal with sufficient nutritious food.

cient nutritious food. Heifer Gives Bloody Milk.—We have a four-year-old heifer that came fresh last winter, since then she has thrived and milked well up to ten days ago. Since then she has been giving bloody milk from one hind quarter. Last fall one of my cows had same kind of ud-der trouble and failed to get well. C. F., Metamora, Mich.—Doubtless your cow bruises her udder or perhaps one of the other cows hook her. Dissolve ¼ lb. acetate of lead, ¼ lb. sulphate of zinc in one gallon of cold water, add one pint tincture arnica and wet the bruised part of udder three times a day. In a case of this kind it is neces-sary to ascertain cause and remove it. sary to ascertain cause and remove it.

"

sary to ascertain cause and remove it. Warts.—I have a heifer two years old that is troubled with warts under her lower lip; I have applied caustic potash and castor oil to them, but they don't disappear very fast. There is not, in fact, many of them, only a small patch under her lower lip; fortunately they have not as yet made their way inside the mouth, but I am afraid this will be the case if they are not com-pletely eradicated soon. Could you in-form me of some remedy that would effectively and permanently remove this trouble? F. V. T., Menominee, Mich.—Apply a saturated solution of salicylic acid in alcohol two or three times a week. Give her 2 drs. of Fow-ler's solution at a dose in feed or drinking water twice daily. Forage Poisoning.—I have three

drinking water twice daily. Forage Poisoning.—I have three spring pigs that did well until two weeks ago. Since then they held their head to one side, act as if blind, stag-ger and reel when they walk. Toward evening they seem to move about fair-ly well. What is wrong with them? D. S. Inkster, Mich.—Doubtless your pigs have eaten infected food of some kind. 'Change their feed, give each pig 10 grs. of bicarbonate soda and 2 grs. of potassium bromide at a dose in feed or water three times a day. Keep them or water three times a day. Keep them in a dry place and feed them less corn and more green feed. If their bowels are costive, give castor oil.

Cow Gives Bloody Milk.—I have a cow that just freshened and she gives bloody milk from one quarter. Before she went dry some blood came from this quarter and there was a small hard obstruction in teat situated mid-mer between test and and udder. Con way between teat end and udder. Can she be cured? M. McC., Rives Junction, Mich.—Apply one part iodine and ten parts fresh lard directly over the bunch in teat three times a week. She should be milked cautiously. An obstruction of this kind is pest rem surgically, however, this is best work that should be done by a competent Vet., or else the operation is unsuccessful. Calf Has Bloody Scours.—We have a calf two months old that is suffering from bloody scours: this is the second

from bloody scours; this is the second case we have had in our dairy lately and I would like to know if the disease is contagious. Their food supply conand I would like to have a supply con-is contagious. Their food supply con-sists of skim-milk and grass. G. J., New Lothrop, Mich.—Add a small tea-spoonful of subnitrate of bismuth and a teaspoonful of paregoric to each feed of milk. This medicine should be giv-en three times a day. Perhaps this ali-ment is contagious, therefore I would suggest that you clean and disinfect your calf pen in order to destroy the infection. A substance of the state of the state of the set of th







### FIRST EDITION.

.. The markets in this edition were re-vised and corrected on Tuesday afternoon, July 2.

### WHEAT.

As yet the Food Administration has As yet the Food Administration has not fixed the new price on wheat, ex-cept for some parts of the country where the new crop is moving. Local dealers expect orders to make the change in prices here in a short time. change in prices here in a short time. There is very little old wheat to mar-ket but the new crop is now beginning to move, Kansas City receiving fifty-seven cars on Monday, most of this be-ing of the 1918 crop. The quality is reported excellent. The United States Senate by a large majority refused to accede from its former demand for a Senate by a large majority refused to recede from its former demand for a minimum of \$2.50 for 1918 wheat. While the crop in the northern states may be just a little late, it is develop-ing finely, and the general impression is that the yield will be fully up to the early estimates, and probably will ex-ceed them. A hopeful sign in the pres-ent situation is the increase of 222,000 bushels in the United States visible supply for the past week. One year ago the local market quoted wheat at \$2.50 per bushel for No. 2 red. Present quotations here for cash wheat are:

### quotations here for cash wheat are: No. 2 red wheat......\$2.17 No. 2 white......\$2.15 No. 2 mixed.......2.15 ..... 2.15

### CORN.

Corn prices are going up. Market is firm and the grain is rapidly grow-ing scarcer. The United States visible supply shows a decrease of 685,000 bushels for the week. Buyers are out for high-class corn to export, but there is not much of this kind offered. There are a good many students who believe world conditions warrant the continu-ation of high corn prices. Our new crop is developing very satisfactorily. Recent rains have relieved the situation over a large area where the lack of moisture was beginning to be felt. of moisture was beginning to be felt. Farm work is too crowdd at present to permit farmers to market this grain, while the government has ordered that elevator men load wheat and oats ahead of corn. One year ago the price for No. 2 corn on the local market was \$1.76 per bushel. Following are the latest cash prices at Detroit: No. 3 corn.....\$1.60

#### OATS.

Higher prices are now being paid for oats than obtained last week. The 

RYE.

Rye prices have suffered another de-cline and cash No. 2 is quoted on the local inactive market at \$1.75 per bu. At Chicago the same grade is \$1.74@ Milkers and springers... \$60@ 125 yesterday's average.

the new plants are looking unusually promising. At Detroit beans are quot-ed at \$9.50 per cwt. The price report-ed at Greenville is \$7.50 for the hand-CHEESE. picked.

Chicago trade is as follows: Michigan pea beans..\$10.00@11.50 Red kidneys ..... 11.50@12.00 Brown Swedish ..... 8.50@ 9.00

### HAY.

While prices are steady with last week the demand for hay has shown considerable improvement due to the shortage in yield from lack of moisture. Local prices are:

Local prices are: No. 1 timothy ... \$17.50@18.00 Standard ..... 16.50@17.00 Light mixed .... 16.50@17.00 No. 2 timothy .... 15.50@16.00 Pittsburgh.—Demand for hay of the better grades has become very brisk while receipts are extremely light. No market here for poor stock. Quotations are higher as follows:

while there for poor stock market here for poor stock are higher as follows: No. 1 timothy......\$23.00@23.50 No. 1 light mixed... 20.00@21.00 No. 1 clover mixed.. 19.00@20.00 No. 1 clover mixed... 18.00@19.00

POTATOES.

Only fourteen cars of old potatoes were moved on Monday and not a sin-gle car originating in Michigan was reported. The market for old stock is practically over. Detroit price for the round whites in bulk is \$2.33 per cwt. At Buffalo the same grade, sacked, is bringing \$1.90@2.10. Practically all the other markets are out of old stock. The acreage planted in Michigan is generally estimated as a normal one, and recent rains have put the crop in excellent condition.

### BUTTER.

**DUTTLEX.** The butter markets show but little change from last week. The tendency is toward a firmer trade. Offerings are large but the current demand is ab-sorbing an unusually large proportion of these daily receipts. There was less criticism the past week regarding qual-ity, the general run now being of a high order. The Food Administration has announced regulations for the con-trol of butter dealers, who are now altrol of butter dealers, who are now al-lowed a definite margin for the ser-vice they render in the handling of butter. A copy of these regulations will appear in the next issue of the Michigan Farmer. Detroit prices for fresh creamery butter are 42c for the firsts and 43c for extras. At Chicago the price ranges from 37@43c, with trade is a liftle easier, with creamer-ies ranging from 42½@45½c, and the packing stock at 33c. Western creamtrol of butter dealers, who are now al-

CHEESE. In spite of the large receipts of cheese, prices keep working toward a higher level. Offerings are taken care of readily, all the important markets reporting an unusually broad demand and firm to higher prices. At Detroit fats are quoted at 22¼ @24¼ for new and 25½ c for old; daisies are quoted at 23¼ @24¼ c. A firm trade prevails at Chicago, with Young Americas now quoted at 24½ @24¼ c; daisies, double 23@23¼ c; do single 23¼ @23½ c per pound. Fresh specials sell in New York at 24¼ c and average run at 23¼ c, while whole milk cheese brings 23@24% c in Philadelphia. EGGS.

### EGGS.

**LGGS.** A very good demand exists for eggs and with a reduction in the receipts from country points and in deliveries at a majority of the large markets, the prices are looking upward. Current receipts from Michigan are quoted at 33½c at Detroit, while firsts in new cases bring 37½c. The Chicago price for firsts is 34@35½c, ordinary firsts 32@34c, at mark cases included 31@ 34½c. These prices are higher than those reported last week. The New York trade rules firm with western stock ranging from 36@53c.

### WOOL

It seems that Michigan dealers are It seems that Michigan dealers are generally offering 65c for the best wool. Some farmers have sold at 67c while others are holding for 70c, be-lieving that government fixed prices for the scoured product warrants such a quotation for good staple. See Edi-torial Comment on second page of this issue

DETROIT CITY MARKET There is considerable trading in the unicipal markets these days. Prices There is considerable trading in the municipal markets these days. Prices are holding up well. We note the fol-lowing prices: Radishes \$1 per bu; lettuce 15@20c for common; 75c for head; string beans \$2.25; peas \$2.25; eggs 50c; hay \$19@23 per ton. **GRAND RAPIDS** 

Wheat \$2.07; oats 86c; corn \$1.70; rye \$1.50; barley \$1.50; beans \$8@8.25 per cwt.

### LIVE STOCK AT BUFFALO FOR MONDAY. Cattle.

Cattle. Receipts 120 cars; good grades are strong, others steady. Prime heavy steers \$17.50@18; best shipping steers \$16.50@17.50; plain and coarse \$12@ 13; native yearlings \$14.50@15.50; best handy steers \$13@14; fair to good kinds \$11@12; handy steers and heifers mixed \$10@11; western heifers \$11@12; best fat cows \$10@11.50; butcher cows \$8.25@9; cutters \$7@ 7.75; canners \$5.50@6.50; grazing cows \$7@7.50; fancy bulls \$11@11.50; butcher bulls \$9@10; best feeding strs \$9.50@10.50; medium feeders \$9@9.50; stockers \$8.50@9.50; light common \$7 @8; milkers and springers \$75@150. Calves.

Calves. Receipts were 1,500. Market is steady. Prices ranged from \$7@18.50. Hogs. Receipts 40 cars; market is strong; heavy \$17.40@17.60; yorkers \$17.85@ 18; pigs \$18.

18; pigs \$18. Sheep and Lambs. Receipts five cars; market steady; top lambs \$18@18.50; yearlings \$15@ 16; wethers \$12.50@13; ewes \$11.50@

### THE SITUATION IN CHICAGO ON MONDAY.

### · Cattle.

today's market shows little further change for fat beeves, with the top at \$18 again. But grassy light steers are in a weak position, while the butcher stock is at least 15c lower on an average.

### Hogs.

Hogs. Today's receipts ..... 44,000 Receipts last week....119,717 Receipts previous wk. 164,186 Total week year ago....122,078 Greatly lowered supplies for a week past account for the stiff advance in prices, and had the eastern shipping demand been larger, the rise would have been greater. Today's prices are a little higher, with common rough heavy packers to prime selected hogs weighing 184 to 226 lbs. at \$15.80@ 17.15, after a lower opening. Feeding pigs bring \$16.60@16.95. Hogs mar-keted last week averaged 237 lbs. A week ago hogs hrought \$15.25@16.45. Lambs.

week ago hogs brought \$15.25@16.45. Lambs. Receipts today ......15,000 Receipts last week.....78,292 Total previous week.....69,488 Receipts week, year ago. 75,839 Spring lambs declined 50@60c last week under larger receipts, with the late top for rangers at \$18.75, but to-day there was a sale of 4000 head at \$19, there being only a small supply.

#### GREAT INSTITUTION TURNS TO WOMEN FOR AID.

Like many thousands of institutions throughout the world which have been forced to appeal to womankind for assistance, since the manpower has turn-ed its entire attention to the elimina-tion of the Hohenzollerns, the success of the 1918 Michigan State Fair will be dependent, more than ever before, upon the support of the gentler sex. Innumerable exhibits which in for-

Information the support of the gentler sex. Innumerable exhibits which in for-mer years have been displayed by men-now in the forces of Uncle Sam, are being prepared and will be entered this fall by their wives and sisters. Women entrees are filling the ranke in many of the competitions that in previous years have been patronized exclusively by the men. G. W. Dickinson, Secre-tary-Manager of the Michigan State Fair, is anticipating the scarcity of un-occupied men who in past years have acted as guides, judges, pages, attend-ants. ticket sellers, gate tenders, ush-ers and many other positions during the ten days of the fair, and at the 1918 Exposition in Detroit August 30-September 8, hundreds of young wom-en will be found acting in these ca-pacities.

# **Our Special Live Stock Service**

### Reports for Tuesday, July 2nd DETROIT **BUFFALO**.

### Cattle.

market dull at last we	eks ch	Jain
prices.	Sale De Ala	
Best heavy strs (dry-fed).	\$14.50@	15.7
Best handy wt bu strs	11.50@	12.5
Mixed steers and heifers		
Handy light butchers	8.00@	8.7
Light butchers		
Best cows		
Butcher cows	7.50@	8.2
Cutters		
Canners		
Best heavy bulls	8.00@	
Bologna bulls	7.50@	
Stock bulls	7.50@	
Feeders		
Stockorg	7 500	

than on Monday, with pigs selling at \$17.75 and other grades at \$17.60 per cwt. Lambs rule steady. Calves sold up to \$18, while cattle are dull CHICAGO.

# Cattle.

Today's hog market is 15@25c lower

Estimated receipts today are 17,000 head. Steers above \$17 are steady. Others, including butcher cattle, stock-ers and feeders unevenly 10@25c low-er. Veal calves steady. Good choice prime steers \$16.50@ 18; common and medium butchers \$11.75@16.50; heifers \$8@14.50; cows \$7.85@14; bologna bulls \$8.50@12.75; yesterday's average.

# 

JULY 6, 1918.



7371 new members added since January first and the growth now continues at the rate of 500 new members per week. The company has now written over 35,000 policies since its organization.

The first six months of 1918, two hundred eighty claims were paid with a totalof \$40,684.93. The success of the company is. due largely to the fact that it started before the war and had the pick of the automobile owners in the small cities and country districts of the state. The Company has paid its losses promptly, has a fireproof building and equipment so that the members receive good service.

The officers, agents, adjustors and attorneys have had the experience which fits them to deal with each case according to its merits.

### **Railroad Stocks** Yielding 7% to 10%

Many-ligh-grade railroad stocks, whose dividends are guaranteed by the Government, are now sell-ing at prices showing a net income return of 7% to 10%, and a list of these stocks is given in a thue-ly article on the railroads appear-ing in our fortnightly publication

### **Securities Suggestions**

Numbers fine and ten of this pub-lication, which currently discusses leading developments in the finan-cial world, also contain comprehen-sive and interesting articles on the following subjects:

A New Era Dawning for Railroads Position of Standard Oil Pipe Lines The Willys-Overland Company

Equipment Companies in War and Peace **Investment** Position of American Woolen

The Part Payment Plan To get these free booklets, write us for 17-MF.

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### THE MICHIGAN FARMER

THE FLANDERS DISPERSION SALE.

At the Flanders Farm Dispersion Sale held at Orchard Lake, Mich., on pork for July delivery, while Septem-June 26, twenty daughters of the Flanders' herd sire, King of the Pontiacs Segis, sold for an average price of \$437.50. When we take into consideration the fact that nearly all of these young heifers were under two years of black and white cattle of approved quality and family lines. The females in the sale sold for following prices:

in the sale sold for following prices: Johanna De Kol Hartog of Sparta to John Hehl, Detroit, \$600. Creamelle Taurus Gerben to John Hehl, Detroit, \$325. Adriaantje Korndyke to R. S. Park, St. Clair, \$380. Gerben of Taurus Creamelle to E. W. McNitt, Grand Rapids, \$550. Phyllis De Kol Johanna to R. F. Johnson, Decatur, Ill., \$1,225. Lizette Pieterje Netherland 5th to R. F. Johnson, Decatur, Ill., \$1,410.

Lizette Pieterje Netherland 5th to R. F. Johnson, Decatur, Ill., \$1,410. Superba Rag Apple Luzette to E. M. Weaver, Burr Oak, Mich., \$2,050. Moonlight Pieterje Rosewood to John Hehl, Detroit, \$530. Flanders Ogden Hazel Posh to John Diselord, Washington, Mich., \$285. Flanders Pietje Alcartra to John Schlaff, Mt. Clemens, Mich., \$550. Fairmont Pietje Alcartra to Hardy & Bayne, Rochester, Mich., \$1,225. Fairmont Mercedes Alcartra to F. K. Sanfestey, Mt. Clemens, Mich., \$560.

Fairmont Mercedes Alcartra to F. K. Sanfestey, Mt. Clemens, Mich., \$560. Fairmont Tehee Alcartra to John Schlaff, Mt. Clemens, Mich., \$500. Fairmont Alcartra Tehee to John Schlaff, Mt. Clemens, Mich., \$700. Flanders Pontiac Segis Tehee to John Schlaff, Mt. Clemens, Mich., \$425. Flanders Pontiac Segis Alcartra to John Schlaff, Mt. Clemens, Mich., \$500. Flanders Pontiac Segis Gerben to Robt. R. Pojnter, Dearborn, Mich., \$500.

\$500.

Flanders Pontiac Segis Aaggie to John McClure, Royal Oak, Mich., \$450. Flanders Pontiac Segis Janet to R.

F. Johnson, Decatur, Ill., \$320. Flanders Pontiac Segis Princess to Robtert R. Pointer, Dearborn, Mich., \$800.

Flanders Pontiac Segis Pauline to North Carolina State Hospital, Mor-gantown, N. C., \$500. Flanders Pontiac Segis Hengerveld to John McClure, Royal Oak, Mich.,

\$300.

Flanders Pontiac Segis Korndyke, North Carolina State Hospital, \$360.

Flanders Mercedes Alcartra to John McClure, Royal Oak, Mich., \$300. Flanders Pontiac Segis Stella to Al-fonse Vanderbranden, Rochester, Mich. \$330.

Flanders Pontiac Segis Marion to M. L. McLaulin, Redford, Mich., \$760. Flanders Pontiac Segis De Haan to John McClure, Royal Oak, Mich., \$610.

John McClure, Royal Oak, Mich., \$610.
Flanders Pontiac Segis Viola to R.
F. Johnson, Decatur, Ill., \$300.
Flanders King Pontiac Mollie to R.
R. Pointer, Dearborn, Mich., \$350.
Flanders Pontiac Segis Minita to R.
F. Johnson, Decatur, Ill., \$325.
Flanders Pontiac Segis Hazel to N.
C. State Hospital, Morgantown, N. C., \$295.

\$295

\$295.
Flanders Pontiac Segis De Kol to John McClure, Royal Oak, Mich., \$375.
Flanders Ogden Walker to J. B.
Jones, Romeo, Mich., \$240.
Flanders Burke Lyons to E. A.
Hardy, Rochester, Mich., \$350.
Flanders Colantha Pietje to Robt. R.
Pointer, Dearborn, Mich., \$500.
Flanders Johanna Clothilde Rue to North Carolina State Hospital, \$430.

### LIVE STOCK NEWS.

### Hogs Are Heavy.

The hogs arriving in the Chicago market have been averaging 236\_lbs. in weight, being four pounds heavier than a week earlier, and comparing with 223 pounds a year ago. They are much heavier than ETAOINHRDLU much weightier than in other recent. years, but five years ago the hogs arriving on the market averaged 249 pounds.

Exports of Hog Products Liberal. A remarkable increase in the exports of cured hog products recently goes far in explaining the boom in the provision market. During the second week of June exports from the Atlantic seaboard included 32,219,000 pounds of bacon and 8,042,000 pounds of lard, these comparing with exports for the corres-

ponding time a year ago of 8,480,000 pounds of bacon and 1,696,000 pounds of lard. During a single day recently there was an advance of \$1 a barrel in ber pork has sold recently more than \$4 higher than a year ago.

### DOINGS IN MICHIGAN COUNTIES.

The few growers who stuck to wormage it affords convincing proof that wood are reaping their reward now. there is good money in the breeding Offers have been received of \$4 per pound for the oil, and twenty-five pounds per acre is a fair yield. Wormwood is grown on uplands and in hills set close together.

### Branch, County.

A much larger seeding of alfalfa than usual is reported this spring. The county agent is spending four or five days each week in field work throughout the county but aims to be at the office in Coldwater all day Saturday unless something urgent interferes.

Osecola County. The time set for the county fair at Evart is October 1-4.

Flanders Pontiac Segis Burke the young heifer donated sets Burke the young heifer donated to the Red Cross at the Flanders Farm Dispersion Sale of Holstein cattle at Orchard Lake, Mich., June 26, sold to E. Leroy Pelle-tier, of Detroit, for \$525. Michigan cattle sales have contributed liberally to this wanthy cause during the 1918 to this worthy cause during the 1918 season.



large, great layers, pure white offered for short time only choice 2 year old hens \$1.00 each, yearlinghens \$1.25 each. 8 weeks-old pullets \$1.00 each, EVERFRESH EGG FARM, Ionia, Mich. M ammoth Pekin Ducks from best stock in America. M Eggs \$1.50 per 11. Rose Comb Brown Leghorns from Madison Square and Mich. & Ohio Fair winners. Eggs \$1.50 per 15. Mrs. Olaudia Betts, Hillsdale, Mich. Pine Crest each, eggs special price \$5 per 15, utility \$12 per 100. MRS. WILLIS HOUGH, PINE OREST FARM, Royal Oak, Mich. RHODE ISLAND REDS and Plymouth Bocks Males 5 to 12 lbs, according to age \$5 to \$8; P. R. hena weight 5 to 10 lbs, eggs 15 for \$1.50; 100, \$8; Mammoth Bronze Tom Turkeys \$ 40 38 lbs, according to age \$6 to \$25, 10 eggs \$4. J. Morris & J. Barsan, Vassar, Mich. R. I. REDS, both combs. Ohicks & eggs. Most popular strain in Michigan. Write for catalog. INTERLAKES FARM, Box 39, Lawrence, Mich. CILVER Spangled Hamburg eggs \$7 per hundred; S \$1.75 per setting balance of season. White Hol-land Turkey eggs \$4 per 12. RIVERVIEW FARM. - Vassar, Mich. SILVER Golden & White Wyandottes. Four Golden Scockerels \$2.50 each. Eggs 15, \$2.50; 30, \$5 by P. Post prepaid. O. W. Browning, R. 2, Portland, Mich. S. C. Brown Leghorns Excellent layers. Eggs 5c each prepaid, Yearling hens \$1.25. Cockerels \$1 FLOYD ROBERTSON, R. 1, Lexington, Indiana White Wyandotte eggs for hatching also baby-chick out of choice stock; send for a 1918 circular. DAVID RAY, 709 Norris St., Ypsilanti, Michigan. HOGS O. I. C.'s all sold except some fall gilts. Order O. J. THOMPSON, Rockford, Mich. 0. 1. C.'S Big type serviceable boars. Spring far-rowed boar pigs. Bred gilts to farrow July G. P. ANDREWS, Dansville, Mich. 0. 1. C's. Large type, spring pigs bred from State Olover Leaf Stock Farm, R. 1, Monroe, Mich. **0. I. C. Spring Pigs**, big heavy boned fellows bis. and bred gilts. F. C. Burgess, R. 3, Mason, Mich. **BIG TYPE POLAND CHINAS** Bred Gilts and Spring Pigs. One extra well bred Holstein Bull Calf. HILLCREST FARM, KALAMAZOO, MICH. FOR SALE Smooth Jumbo a grandson of Peter Mouw's old boac Smooth Jumbo a 600 lb. yearling. A top notcher fit to head any herd. Also some nice bred gilts at \$50. If you get one you will have to hurry. J.C. BUTLER, Portland, Michigan. Nothing for sale at present. Spring pigs O.E. GARNANT, Eaton Rapids, Mich. Large Type P. C. Bredgilts and boars all sold nothing to offer at present. W. E. LIVINGSTON, Parma, Mich. LEONABD'8 Bred sowe all sold, fall pigs, orders book. Led for spring pigs at weaning time. Shipped C.O.D E. R. LEONARD, St. Louis, Mich. P. C. Sows For Sale. Bred for April farrow. A. A. WOOD & SON. Saline, Mich L. S. P. C. all sold out, except the largest farrow. H. O. SWARTZ, Shoolcraft, Mich. Large type P. C. Some choice Sept. gilts ready to bred for Aug. and Sept. farrow, Wm. J. CLARKE, R. 7, Mason, Mich. Wm. J. CLARKE, R. I. Big type P. C. Big boned fellows fron Iowas greatest Bherds, special prices on spring boars and choice bred gilts. E. J. MATHEWSON, Burr Oak, Mich. Big Type Poland Chinas. Spring pigs for sale. BHealthy and growthy. From large litters. Prices right. L. W. Barnes and Son, Byron, Mich.

LARGE Type P. C. Just 5 choice summer gitts bred for July and Angust farrow. Come and see them. W. J. HAGELSHAW. Augusta, Mich. Poland China Swine of all ages R. W. MIILS, Saline, Mich.



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

IT PAYS TO BUY PURE BRED SHEEP OF PARSONS "The Sheepman of the East." I sell and ship everywhere and pay express charges. Write for club offer and price list. Charges. Write for club offer and price list. PARSONS, GrandLedge, Mich. R 9

Ingleside Farm offers 80 recorded Shorp-shires 40 rams mostly yearlings,40 ewes from 1 to 7 years old. Oitizens phone. HERBERT E. POWELL, About July 1 we will offer for sale choice ARMSTEONG BROS., R. 8, Fowlerville, Mich. Some Good Breeding Ewes and registered BAMS for sale, Barnard Sheep Banch, R. 5, Olare, Mich.

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23 - 23

POULTRY

FOR SALE-S. C. White Leghorn Ohix \$12 per 100; hens \$1.25, Ferris 200 to 284 egg strain. Herbert Hammond, Williamston, Mich.

Laybilt S. C. W. Leghorns

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