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

DETROIT, MICH., SATURDAY, JUNE 1, 1918

## Is a National Board of Agriculture Possible?

NE of the complaints made by the United States government is that there is no organized body to speak for agriculture. A delegation from this or that section, or representing this or that special line of agriculsense of conflicting with other sections

tongue and stock phrases to express an inexact knowledge of the subject in hand. Local minded men in national affairs of agriculture could be supplanted by a National Chamber of Agriculture with a national viewpoint. The National Chamber of Commerce represents varied industries, yet is able to do justice by a broad general policy. The same could be accomplished by an agricultural body, national in scope.

than a maximum one, and in the face the world's needs as to agriculture vail, it would be the national body be deliberative, and for lack of time

of increasing demand, farm production is not being relatively maintained.

Who Would Represent Agriculture in State Organization?

This is always a difficult question, but in the main it is best to use existing machinery, than to expend time and energy in creating a new one. In practically every county in the United States of agricultural importance, there is now a paid agent of agriculture who is joint employe of the national, state and county government.

The great majority of these county agents are efficient. but are handicapped by the common viewpoint that they are not to assist agriculture from the economic side, but wholly on its productive side. Whatever foundation there may exist for this impression, it might be answered that there is no economic organization of agriculture for them to work with or through. The complaint is rather an indictment of the complainant than otherwise.

the opportunity to perform economic the National Chamber of Commerce, proportion as against what he buys. ular member was unable to attend. service, and is already on the job The dissemination of these reports The national representatives of cop- It is unnecessary to go into details awaiting this duty.

The farm bureau president who is secretary of the farm bureau.

Michigan's Market Director James N. McBride Suggests National Chamber of Agriculture would the Organization of Existing Local Agriculture Agricultural Agencies that America's Farmers May Speak Wisely and with Unity and Force.

ture, comes to Washington, and makes State Chamber of Agriculture made tural formation is just as essential as tion of crops could be stored; or, for

a fragmentary presentation in the up of the presidents of the county farm is that of other industries who find example, potatoes could be dried, and bureaus, would allow each county to their organizations, to be effective, thus prevent the surplus from making or lines of farm products. The impres- have its representative. This body must be of a national character. Each the whole crop unprofitable. The nasion left is conflicting and incoherent. would represent all types of produc- state organization would select a mem- tional body being selective from the This condition often allows agricultion and of farmers. The present ber of the national organization, a po- respective county units would be a deture's case to be presented by the pro- farm bureau presidents of Michigan sition of added responsibility. The terrent to the ascendancy of exploiting fessional pleader, who has glibness of would make a state body of probably membership of the national organiza- organizations which come and go in

What Should We Do?

There is no machinery to properly represent agriculture in national deliberative bodies. The farming industry is suffering great handicaps and financial loss because of this lack. What shall we do? Read this article.

Agriculture at the present time is would be to consider farm conditions necessarily, however, in Washington, expressing its economic relations, or to position of farm bureau president al metropolis of the United States. of price, or to advise as to the cost of Crop estimates made by their respec- would be to collaborate with the state limited time that it is possible for the

seventy-five men. Their meetings tion would maintain headquarters, not

be the price consulted body in relation to farm products. The referendum to the respective farm bureaus would be to connect agriculture organically from the bottom to the top. A surplus porcycles with great promise and no fulfillment.

How Prospective State and National Chambers Would be Financed.

State, county and national funds could not, nor would it be desired, to use these for the necessary expenses of the proposed organization. There should be a special fund made up from contributing memberships. This per capita would be very nominal for the total expense would be small. The without the power or opportunity of and to express agriculture's needs. The for Chicago is probably the agriculture state meetings should call for some per diem and expenses. The weakness interpret supply and demand in terms would be one of increased importance. The program of the national body of many agricultural gatherings is the production. This condition permits a tive county agents would be the last bodies, also to maintain a statistical delegates to give to discussion. Agriminimum crop to be more profitable word in this respect. Crop costs and staff. If present conditions were to pre-cultural bodies have largely ceased to

> any plans proposed fail because there is no time for adequate deliberation.

Special committees of the respective lines of agriculture would be able to serve those producers better than a special organization of their own, the reason being that all of agriculture would be united on the program, and cooperate to make the plans effective. As it is now, each line has its own organization, and the farmer who is a dairyman must be a member of a dairy association, and if a potato grower, or a grain or bean grower, he still has multiple duties as to joining each respective organization, but no coordination of his own interests which unite in him and are dissipated in numerous divisions of power.

A special meeting of the State Chamber could be had in any emergency, and the state chairman could order the committee of the particular crop in question to report, nd the whole force of the allied interests would be available to support their recom-

chamber of commerce. He would have and accomplish just what is done by ducts, they must also be maintained in represented, if for any reason the reg-

would be by the county agent as the per producers are consulted when cop- which must always be worked out by per prices are fixed; and also when those who do the work. The question the directing head of the county farm The industrial scope of any state in steel prices are to be determined, it is: "Does agriculture need organic organization usually represents the the Union is not limited by its borders. is their representatives who participate unity?" Is the proposed plan to sell (Continued on page 678).



The county agent could be made the would be made their program. The which would advise the United States mendations. Proxy powers undoubtedworking official of an organization, as weight of their conclusion would be- as to prices for farm products. And if ly would be provided so that a county does the local secretary of the city come the agricultural point of view, these are fixed for the farmer's pro- member of the state board could be

foremost type of farm leadership. A The cooperation of states in agricul- so as to allow adequate prices. The

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DETROIT, JUNE 1, 1918



CURRENT COMMENT.

Through the action of Marketing the the War Industries

on the Atlantic seaboard price on July 30, 1917, less a profit to dealers on the total season as provided in the order, and freight to seaboard, moisture, shrinkage and interest.

The profit to dealers has been fixed in the order of the War Industries Board at not to exceed one and onehalf cents per pound on the total season's business, this profit going to cover all expenses from grower to loading wool on board cars. Provision is made in the order that growers who desire to do so may pool their clips in carloads of 16,000 pounds, and consign it. the wool so pooled on account to any tributing center. Growers are urged medium of county agents or others, ture will take care of itself. where no cooperative organization exmiddleman.

pointed for that purpose in the differ- in our own sphere of action. the distributing center, the excess man was added to the threshing crew no written or unwritten constitution or have started by the heavy attacks now

government may determine.

government on scoured wools and as machinery for handling wool as above crew and doing all of the labor inci- league of nations so large and powerful no object in holding the season's wool of caring for the grain as it comes join, to the end that future internapoints out that the necessities of the live in a community where progressive one of our modern states? government at this time are such as to threshers have adopted the full crew require concentration of the season's system. Under present difficult labor clip at points near centers of consump- conditions it is impossible for any tion, hence the patriotic action on the farmer to hire extra labor sufficient to part of growers will be to market their make up a threshing crew, and it is season's wool clip as soon as they are often not only inconvenient but nearly fully advised with regard to govern- impossible to change work with his ment values as established on the neighbors to make up a threshing crew grade of wool which they produce.

In our daily business Preparing for the Future.

ditions which will prevail after the ers would do well to discuss the mating peace has been established. The full crew system with the higher price opinions thus expressed are as varied for threshing which is necessary to lines.

Those who are prone to feel that the enormous cost of the war will sad-Board, the govern- dle a burden on future generations so ment has commandeer- appressive in character as to hamper ed the 1918 wool clip. Under this ac- a normal industrial development and tion the government will have a prior prove an insuperable handicap to an union for the prosecution of a great right to acquire the entire clip or any enjoyable plane of living, need but to war against an outside enemy, the reportion of same which it may require consider the fact that before the ad- peated exhibitions of patriotic loyalty tries Board. The remainder will be zied financiers" would have considered citizens should be convincing proof of allotted for civilian uses under the di- the financing of a war on such a stu- their error. During the recent patrirection of this board. The price which pendous scale an impossible undertak. otic drive to raise funds for the Red will be paid for the clip will be based ing to be convinced of their error. With all the demands which have been

For the first time since pioneer days the American people have, as a people, quantities of not less than minimum acquired the saving and investing hab-The habit will survive the country's urgent war need, and will build approved dealer in any approved dis- a future prosperity greater than any which has gone before. In other words, to adopt this latter course through the if we take care of the present, the fu-

The only way to take care of the ists, thus eliminating the profits of one present is to do everything in our power to aid in winning the war. We must which will contribute to the winning suddenly breaks diplomatic relations.

Under the order, approved dealers win the war as the first requisite of a of the war for human liberty and a just with Cuba. at designated distributing centers will bright future. Let us then make the be required to open and grade all pur- winning of the war our business to the wool is graded, prices will be fixed by preparation for the future. And every-

gross profit on the season's business ers, while the farmer has provided the Germany and her allies. We are conamounts to more than one and one help to handle the bundles to the fronted, therefore, with this fact, that

as has been the custom in most sections of the state for so many years

The full crew plan of threshing relations with people would simplify the labor problem for lation and many proph- farmers in any community where this esies with regard to the business con- system is not practiced by local threshwar is finally over and a just and last- ter among themselves, and in case the as are the persons expressing them. cover the labor cost is favored, take The naturally optimistic person is the matter up with the local threshers see only a dark and foreboding out of meeting the present labor emerlook. In no small measure, we believe, gency, full crew threshing will accomthe future will reflect the present plish much in many communities. It thought of the people of the United is not too early to acquaint the local States. If this promise be true we threshers with your desires in this conshould prepare for the future by guid- nection, provided the full crew plan is ing our present thoughts along right favored by a majority of the farmers in the community.

> The Spirit of have contended that a Democracy. democracy could not be

cemented into a perfect vent of the world war even our "fren- on the part of all classes of American otic drive to raise funds for the Red fight.—Fuel Administrator Garfield an-Cross and other associated war activinounces that the prices on soft coal ties, the common people of both counmade upon us in increased taxes, in try and city responded liberally al-Liberty Loan drives and in popular most to a man. In some few cases selfsubscriptions for war relief funds, our appointed vigilance committees have people have regularly gone "over the taken it upon themselves to instil a top" in record time. And, notwith- wholesome degree of patriotism into standing the greatly increased cost of the hearts of a few who were slow to living and the increasingly difficult bus- respond to the country's call for coniness condition with which they have tributions of war relief funds. While had to contend, they have done it such action is to be deplored rather cheerfully and with a fine patriotic than commended, it emphasized the spirit which augurs well for the future. spirit of the people in the present emergency.

In the purchase of Liberty Bonds the farmers and wage earners of the country have been equally prompt to do their share, and this expression of patriotic loyalty is but the beginning of the full measure of support which the common people of America will give and lasting peace is absolutely certain.

tributing centers, but the books of the tributing centers, but the tributing centers the tributing

profits are to be disposed of as the to operate this device, thus eliminat- set of laws exists to hold these people ing a part of the crew which it was together in the performance of their The basis of values as fixed by the necessary for the farmer to provide. great mission, their amalgamation in-During recent years a few threshers to one unified force could not be more figured out for ordinary grades of have adopted the plan which has long real than it is, and may we not hope fleece wools in Michigan will be found been in vogue in the grain-growing at least that as one of the results of on page 691 of this issue. When the states of the west, of carrying a full this world conflict, there will be a outlined is well started, there will be dent to threshing, with the exception as to oblige the remaining countries to clip for a better price, as the estab- from the machine. This plan has sim- tional irregularities may be settled in lished prices will prevail throughout plified the threshing proposition for a similar manner to the adjusting of the year. The War Industries Board farmers who were fortunate enough to individual differences in the courts of

#### HAPPENINGS OF THE WEEK.

#### Wednesday, May 22.

Michigan soldiers are reported in the first line trenches.—British aviators bombard the fortress of Metz and Coblentz.—One thousand German aeroplanes have been brought down since German offensive started in March.— Austria is rushing men to Italy.—The Turkish troops operating in Asia Minor have mutihiled.—Allies thrusts on westrelations with people would simplify the labor problem for ern front delays German offensive.—we hear much specula- very many farmers this year, and the British casualties for the week ending May 21 total 36,677.

Thursday. May 23.

Sinn Feiner leaders arrested in con-nection with the German-Irish plot will be executed.—Extraordinary activity by the aerial squadrons is noted between the armies in France.—French gain ground on the Somme front.—German troops are being redistributed along the entire front.—President Wilprone to see the bright side of the fu- at once, in order that crews may be son proposes to Allies that tremendous ture outlook, while the pessimist can organized for the purpose. As a means resources of Seberia be conserved by cooperation with Russia and the use of American capital.

Friday, May 24.

The total Allied and neutral boats sunk by submarines during the month of April is announced as little more than one-third of the total sinkings for little more the same month of 1917.-British columns are reported to be marching to the Caspian Sea to establish contact with Russian forces that recently took To the pessimists who Baku.—Berlin reports three American have contended that a democracy could not be Lys battlefield.—French and American fliers put ninety-seven planes out of commission since May 15.—There has been some sharp fighting on the Italian front but without significant change in battle lines.—British are detailed the Clang Point manding that the trial of the Sinn Fein leaders of Ireland be hastened.—The United States War Department orders that all men within the draft age who are physically fit, must either work or will be reduced.

Saturday, May 25.

British armed troop ship with American troops on board is sunk in the English channel. Only fifty-six of the Americans, however, are unaccounted for.—Costa Rica declares war on Germany, making the total number of the Entente Allies twenty-one.—Germans continue to invade Russia south of Moscow, ignoring the Brest-Litovsk treaty, while Russians are now arming to oppose further advance of the enemy.—Announcement is made that emy.—Announcement is made that American troops will be sent to Italy.

That communication between the Sinn Fein leaders and Germany had American troops will be sent to Italy.

—That communication between the Sinn Fein leaders and Germany had been in existence for three and a half years, is announced in an official British communication.—The United States War Department lets orders for 8,000 trucks in addition to 10,000 being delivered.—Four persons were killed when an automobile was struck by an interurban car at Simpsonville, Ky.—Detroit Patriotic Fund exceeds \$5.000. tles over the sea. The spirit of demotoracy is abroad in the land; that it is capable of any necessary sacrifice which will contribute to the winning suddenly breaks diplomatic relations.

Sunday, May 26.

American aviators take an increased chases or consignments as rapidly as extent of our opportunity. By so dopossible after the arrival of wool at the ing we will, individually and collections of destination. As soon as the tively, be making the best possible

A league of the nations part in the aerial work on the western of the world has been a front.—Artillery activity is somewhat subject for discussion reduced.—Red Cross war fund campaign is announced as exceeding \$100. among students of inter- 000,000.—More than 200,000 American a government valuation committee apone of us can do something to this end national relations and world politics troops troops troops of May.—King Albert of Belgium for many years past, but little have of May.—King Albert of Belgium these men thought of the possible to the army and civil population of ent distributing centers. To insure the

growers against profiteering, not only
the books of approved dealers in disthe books of approved dealers in distributing centers, but the books of the

these men thought of the possible to the army and so to the army men die in Windsor,
the books of approved dealers in distributing centers, but the books of the

Threshing.

these men thought of the possible to the army and so to the trance of Costa Rica into the great Ont., from drinking wood alcohol.—

Colonel Roosevelt is announced to be in Detroit to the army and so the to the army and so th

Monday, May 27.

American troops are reported on the half cents per pound for the country thresher, and the grain and straw as it here are twenty-one nations fighting to bear front, which position is likely dealer, or more than five per cent for was delivered from same. With the shoulder to shoulder in perfect har the bear the brunt of the coming drive.

—A renewal of the German campaign on the western front is believed to

## How Is John Going to Get His Farm?

By R. G. KIRBY

make the venture a success.

Mary cannot go into the farming busi- on a farm. ness and, of course, it is unfortunate. But, if farming is really a business, why lament? A business requires capital and John and Mary must acquire capital and they must expect to work for it. Then they can go into the farming business. Until they have some capital they must work for others regardless of their training. There seems no reason to believe that a graduate from a college of agriculture is exempt from the laws of finance any more than the engineering graduate.

A college education may fit a man for some kind of business. It does not present him with a deed to the business on commencement day. A graduate of an agricultural college cannot expect to own a farming business until he earns it. The graduate from the mechanical school cannot lament because he is not handed the deed to a foundry rolled up with his diploma.

not use the soil to the best advantage. is consumed, and unless great care is of the same sizes.-J. L. J.

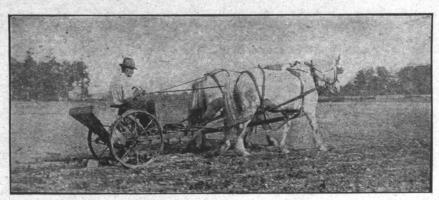
N a recent issue of a farm journal, The fact that a farm can be obtained In every community there are farms country needs the food and the farma well written article told of the by the man who honestly wants one is for sale on easy terms and buying ers on the land today can produce it in experiences of John and Mary who still true. If John is the kind of a man land on a contract is a safe venture if sufficient quantities when the markethad just completed their courses at an who will some day succeed as a farm- the contract price is not more than the ing end of the business is properly agricultural college and wished to be- er he will not lose his nerve because value of the land. A college graduate controlled so that the consumer can gin farming for themselves. They had he lacks the price of a farm. A man is apt to be too anxious to get a quick live well on a moderate income and no capital and thus could not buy a with the type of training obtained at start in his life work. He dislikes wait- the producer can earn a respectable farm although we are to assume that a modern agricultural college can find ing until he is equipped with enough income on his present investment. they were more or less skilled in the a position that will pay more than his start, although the way is hard and the arts of agriculture and equipped to actual expenses will be. That is, he starting is slow. It seems as if the Department of Agriculture who are can save money by careful manage men who honestly wish to farm obtain earning good incomes, although they The author laments that John and ment if he wishes to make a payment a start in some way and make the best lack the capital to farm. There are

Today there are men working in the farmers after they are started. The teachers in the colleges who have a start in life but do not feel they can risk their money in farming. In the offices of the farm journals published in this country there are undoubtedly men who would make fine farmers if they wished to change their present vocation for farming. Many of these men are so conversant with the business of farming that they prefer not to

Here is the point. There are plenty of men who have the brains to make good farmers if the farming business was so good that they felt anxious to invest their time and capital in such a business. It is not necessary to give John a free farm when he graduates from college in order to obtain men to produce food. There are men who have the capital and experience for DO not know of any implement that taken the rows will be crooked and farming who could engage in that work get an honest start in some way. If he With a planter the work is done at a had rather do something else he will

A man can run anything from a pea-

### Finds It a Labor Saver



When it becomes too easy for a young planter. It not only hastens the work varying depths. man to engage in farming, a lot of of planting and saves much wearying them will try it and fail, even though hand labor, but it puts the potatoes in single operation. The operator is able not farm even if he has the capital they might have been successful in in the best possible manner. Two of to see that a potato is dropped in every with which to do it. some other line of business. The fact its chief advantages are that it plants hill. The machine is adjustable so A man can run an that it is difficult to acquire a farm the potatoes in straight rows and that the seed may be dropped at any nut stand to a dairy farm or a gas enkeeps a lot of prospective poor farmers plants them all at a uniform depth. desired depth, and this feature, togeth- gine factory, but it will take capital. from finding out how poor they really When planting by hand a row must er with the straight rows made makes Neither one will be given free. John first be furrowed out, the potatoes it especially desirable when the pota- can get a farm today by planning The difficulty of obtaining a farming dropped by hand, then another trip toes are harvested with a potato dig- right. He will have to save money by business in the future may help to made with a hoe or shovel to cover ger. It will plant seed cut in different working on a farm or elsewhere. It weed out many of the men who would them; in all this operation much time sizes and shapes as uniformly as seed takes capital to farm. That's why farm-

has been appreciated more on our more difficult to cultivate all through if they knew the returns would be adefarm in past years than the potato the season and the potatoes covered at quate. If a man likes farming he will

## What are You Feeding Your Horses? By W. F. TAYLOR

in importance. It is important, first because it is necessary this year that the largest possible amount of work should be performed by the farm team and second because feeds being so scarce and high there is a growing tendency on the part of many people to find some way in which a liberal ration may be avoided and substituted with a more moderate one, thereby cutting down the expense of maintenance. On many farms the hay is gone and practically no grain remains. In such cases there is a tendency to turn the horses on pasture before the grass is sufficiently grown to come anywhere near supplying the needs of the animal. Pasture grass is mostly water. The elements of food it contains are not halanced to meet the needs of a working horse, and even if they were the animal could not contain enough of it to enable him to work to the limit without drawing a part of the necessary energy from the flesh already

I fancy someone may read this who has neither hay or grain, nor yet money to buy them, and feels that he can not borrow for this purpose. In such cases if the farm is a small one, if the amount of work to be done is not great. and, if the man is careful with his team, and wise enough to distribute the work throughout the season, so ar-

stored up in his body.

demand for labor and its re- watching them carefully to see that little aside from the grass. sults on the farm, this question grows they are not overtaxed, they will per-

prices, and with an increased team but a part of each day, and amount of work even though they eat daily, and has a large amount of labor

## Proof of the Pudding

GENTLEMEN:

Last summer, seventy Chicago high-school boys of the United States Boys' Working Reserve were sent to the first camp at Thompsonville, Michigan. They were hired by nearby farmers for a period of five months. A number of them worked on the Betsy River orchards and the writer can truthfully say that from all appearances, none had ever handled a farm tool before. The old foot ball team spirit was in them, however, and in a few weeks they began to be an asset instead of a liability. They wanted to learn.

This spring ninety per cent of those boys are hired for the season about the country at wages from \$30 per month and board, upward.

I have hired ten of them (and trusting they will not see this account), would not lose them for considerably more than the

One particular example of faithfulness: Last Fourth of July the Cadets had a base ball game in town and they all went but one crew of four who were spraying trees. The leader appreciated the necessity of finishing the spraying that day so he prevailed on the rest to stick and they finished the orchard but missed the game. They didn't have to write to me for an 1918 job-I wrote to them.

(Signed)

JOHN NEWHALL, Manager of Betsy River Orchard.

7 ITH all feed stuffs at very high ranging his program as to work the form in the aggregate a considerable fore if it is to eat but three times to perform, his food should be concen-The horse's stomach is small, there- trated. The amount of roughage the horse is able to take depends largely upon custom. However, better results will be secured and the animal will keep healthier and last longer if permitted to eat lightly of roughage and liberally of grain.

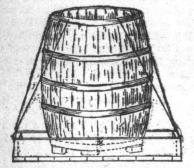
But what grain shall we feed? This is an important question, and the answer will depend upon circumstances. If we have oats we may as well feed them, if we are fortunate enough to possess corn and have no oats we need not buy them to mix with the corn in order to make a suitable ration. The old notion that a horse must have oats in order to do his best work must go, because there are a number of careful experiments which prove that if the horse is fed either ear corn or oats in equal quantities there will be practical. ly no difference in results.

The ration adapted to the needs of the horse differs from that required by the cow. The cow must make milk from her ration and to do this requires a large amount of protein. Protein builds the body, and carbohydrates furnish heat and energy. The waste of the body of the horse must be repaired and some protein is needed, but the great demand is for food that will furenergy. This is where corn excels. Barley will practically take the place of corn. Wheat bran may be given in

(Continued on page 677).

## Suggestions for Our Busy Farmers

and they haven't matured sufficiently derland. yet to be in market condition. In fact, they haven't done any too well this past winter. I am trying to get them into shape now as soon as possible and we have put in self-feeders. These self-feeders are home-made. We took oil barrels, took out the head and the bottom, drove the hoops down tight, and set them in a box three feet square



These barrels are set on blocks three inches thick so that they are up from the bottom of the box three inches and then are securely fastened in each case by wire running from the top of the barrel to the outside of the base. These self-feeders work just as well as a more expensive one.-C. C. LILLIE.

#### PUMPS WATER TO RESERVOIR.

In many farm homes running water is sadly lacking and during the day many pails of water must be pumped and emptied into the range reservoir. The hard work of lifting and carrying the water from the cistern pump to the reservoir may be avoided if a length of eave tough, the same length as the distance from pump to reservoir, be used. We fastened a wire bail onto the closed end and fitted it over the pump spout .- D. D. Woodin.

#### FRESHENING YOUR CAR.

If you do not use your automobile through the winter, buy a small can of automobile enamel and touch up rust spots on the buttons of the cushions or any other place which needs attention. Use very little of the enamel on the brush. When the floor rugs begin to fray, bind with a double carpet braid, carefully mitreing the corners.-E. G. Wallace.

#### STEEL WATERING TROUGHS.

We constructed a light watering trough holding about a barrel of water by using a piece of galvanized sheet iron three feet long and thirty inches wide and bending it into a U-shape, being about three inches narrower at the bottom than at the top. The ends are made of pieces cut fifteen and a half inches wide at the top and twelve and a half inches wide at the bottom and eleven and a half inches in height. This is enough to allow for the bending of the edges over to make a riveting seam. About three-quarters of an inch turned out is enough to rivet securely, placing them about an inch apart. The top edges are stiffened by riveting on L steel one-eighth of an inch in thickness and one inch wide. large orchard. Trees that are useful time school is out you will see the big- distributes the rest between the rows. A light brace across center makes a will be allowed to remain. handle besides stiffening the whole trough. All end corners should be sol- such as was quite common in the sev- The next day Tom went to school food. Some simply sow the fertilizer still in good condition.

it would hook under the center brace. rival, and the boy on that particular old school room.-J. H. Brown.

in place by using large blocks of wood ground. with a U cut in several inches deep

#### A NEW SPARROW TRAP.

Here is a cut and description of a sparrow trap designed by August Tschirky, of Napanoch, N. Y. He has one made square, instead of round, that he has used on his farm several with a two-by-six around the outside. months, and during all this time he has taken an average of sixty sparrows a day from it. This is at the rate of over 20,000 a year.

> The materials required for a round trap consist of a piece of wire netting three or four feet in width and seven times as long as wide, and cut as shown in Fig. II. The netting should be of No. 2 wire, half-inch mesh, and galvanized, about ten yards of soft wire, No. 20, for seaming the edges together, three or four hardwood sticks about four feet long, and one inch thick, and a quarter pound of small wire staples.

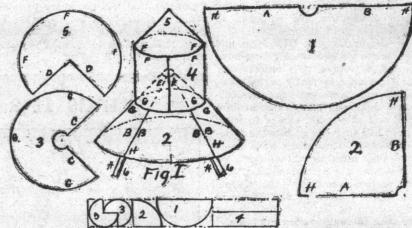
A, B to B, etc., and the staples are used birds. to attach the netting to the sticks.

fly through, and this serves as a hand- top, and are prisoners. hole for taking the birds out.

serve as a cage to keep birds in. An used. A small quantity should be

HOME-MADE SELF-FEEDER FOR In the open it can be conveniently held the cone about six inches above the they naturally rise upward. They immediately come in contact with the The turret has a cone-shaped bot- sheet of wire netting that slopes up-Our last fall pigs were late farrowed for the trough to set in .- R. L. Sun- tom with hole six inches in diameter ward. They follow this along until corresponding with a similar hole in they reach the hole in the apex. pass the apex of large cone for the birds to through it into the smaller cage on

Oats, wheat, rye, barley, cracked The turret is removable and may corn, kaffir corn or buckwheat may be



The edges are wired together, A to exchanged while one is used in storing a train of it leading from the outer to

The sticks H H, and one or two oth- made in the form of an inverted funers not shown, are to project eight nel. The bait is placed under center inches beyond the edge of the lower of trap, and after the birds have eaten cone to form legs to hold the edge of what they want and start to fly away

auxiliary turret may be provided to be scattered near the trap first, and then the central bait, where a liberal quan-The bottom, or floor of the trap, is tity should be placed.—Geo. O. Shields.

#### BEST FERTILIZER FOR BEANS.

Have eight acres of light sandy soil that has not been plowed for six years, that I would like to put to beans. I would like to fertilize it. Can you tell me the kind to use, also the amount and the best way to apply?

Barry Co.

S. B.

Light, sandy soil is without doubt deficient in available phosphorus and it is quite apt to be deficient in potash and also in nitrogen, so the only recommendation to make is that you use a complete fertilizer, that is, one containing all three of the essential elements-nitrogen, phosphorus and potash. My opinion would be that a fertilizer containing 1.8.3 would be a good formula for beans; one per cent of ammonia, eight per cent of phosphoric acid and three per cent actual potash.

My judgment is that the best way to apply this fertilizer is with a grain fertilizer drill before the beans are planted, putting on from 200 to 300 pounds per acre, then harrow the ground before planting the beans. This distributes the fertilizer all through the soil and the bean roots get it as they develop.

If you planted the beans with a corn planter having a fertilizer attachment, you could apply the fertilizer at the same time, but in this case I would not use over seventy-five or 100 pounds of fertilizer per acre because this machine puts it right into the row with the bean seed and too much fertilizer may injure the germination of the seed if the weather is dry and hot.

The way many people plant beans is to drill three rows at a time with an ordinary grain drill. This is a good way and if the grain drill has a fertilizer attachment the fertilizer can be applied at the same time when the beans are planted. In this case I think it would be best to set the drill to sow about 200 pounds of fertilizer and let the fertilizer run through all the openings. This puts just a little bit of fertilizer in the row with the beans and avail themselves of this available plant fertilizer.

## An After-Corn-Planting

HE last few weeks we have driv- farm worked his thinker hard to argue means of the axe and saw.

them. As soon as an old apple tree had been anticipated. has outlived its usefulness it should be "I never saw a saw saw as this saw cut down for fuel, especially during saws!" exclaimed Tommy to the hired such times as these when even the man as, with his hands deep in his heat producer for the kitchen and liv- zer wade into the big apple tree limbs ing-room is coming from.

The farmer in this picture is solving the problem so far as possible by as- you never saw," called his daddy. sassinating and cutting up into stove "You take hold and help pitch these

en over many roads in a number an excuse from school for that day. of counties and find that old or- And somehow it most always worked.

chards are gradually disappearing by Some of us can lean back in the old rocking chair right now and call to There are still many other orchards mind individual instances wherein stayfilled with dead trees that make a poor ing at home on such a day did not pan showing for the farmer who owns out such a large percentage of fun as

farmer is in doubt where next winter's pockets, he watched the old steel buzon high gear.

"Here, Tommy, is something else lengths the dying apple trees in his little blocks up on the pile, and by the



Making Fuel of the Dead Fruit Trees.

gest pile of apple wood blocks you As the bean roots develop they will The scene is an old-fashioned one, ever saw in all your born days."

dered on the inside. The trough cost enties and eighties. The steam engine again, tired and lame as the dickens. through only the openings on each side us \$4.50 about six years ago. It is followed close behind the old down- But he had a buzz saw story to tell of the spouts being used to plant the sweep horse power, tumbling rod and got the most of it out of his sys- beans. This puts the fertilizer close to We used this trough by placing it jack. The buzz saw was a wonder to tem during the noon hour. And the the bean and only uses a little amount, against the pump house, setting it on the boys on the farms in those days. stunt he played therein was given a say 100 pounds per acre. The only obwood blocks and holding it in place by Its coming to a certain farm was an-leading part in the descrpition he put jection that I have to this way is that a large hook stapled to the building so nounced at school days before its ar- across the warm atmosphere of the you sow such a small amount of the

## Tomatoes for Market

where four or five hundred acres are Stone are good later sorts. sometimes given over to staked plants, foot stakes split by hand from oak.

If the soil has been fed heavily with shipped. barnyard manure for several years, staking and pruning becomes almost GETTING RID OF ROOT MAGGOTS. because otherwise the plants will run mostly to vines, owing



Use Stock of Well Branched Plants.

Of course, it is also necessary to take off the side buds, as they develop.

When a naturally early variety is trained to stakes, the crop is ready more than compensate for the extra to one part of the acid. The liquid is labor. Fruit on vrained vines is much less likely to crack, and is much smoother than that grown on plants allowed to sprawl over the ground, thus coming into contact with the earth.

On the other hand, it is difficult to handle staked tomatoes in a dry sea son unless some method of irrigation can be adopted. When trained, the plants are much more likely to suffer from drought than when left on the ground, as the vines then shade the soil.

End rot, which was very prevalent last season both in commercial and in family gardens, is due probably to a period of dry weather just when the fruit is forming. If the ground can be sprayed over the ground or about the will be headed off.

subject to the same kind of blight.

den purposes.

entirely for the first crop, and has sprayer.

LTHOUGH many market garden- found it a big money maker. In the ers do not train tomatoes that are tomato growing section of Ohio, where grown in the open fields, it has staking is done to a large extent, June been found in some sections that the Pink, Beauty, and Acme seem to be staking of the early crop is highly among the most popular varieties. Livprofitable. There are sections of Ohio ingston, Perfection, Matchless and

It is foolish to go to the trouble of ten thousand or more being grown in growing early plants and staking them a single field. All of these plants are unless the crop can be marketed to adtrained to one stem, and grown on five- vantage. Although bushel boxes are commonly used for late tomatoes, bas-When one has only a limited area of kets and even cardboard cartons are ground, staking the tomatoes makes found available for the early crop. If possible the production of a much larg- a high-class market is being served, er crop, although, of course, it entails wrapping each fruit in paper may pay. more work. There is another factor, In any event, the tomatoes should be however, which enters into the matter. cleaned and graded before they are E. I. FARRINGTON.

The root maggot is a very troubleto the excess of nitrogenous fertilizers. some pest on many farms and in many If five-foot stakes are used, and the sections where cabbage, turnips, radplants stopped when they reach the ishes, etc., are raised. I have noticed top, the growth of fruit will be forced. that during some years, the maggots work greater havoc among these vegtable crops, than others. The maggot has been more destructive in some localities than others and where they seem to get into the ground, regardless of the locality, the grower seems to have great difficulty in eradicating them or in keeping them in check sufficiently to grow crops that are profitable. I have in mind one locality where cabbage never has been a profitable crop on account of some sections where the maggot works havoc almost every season. There are a number of things that will help keep the maggots in check but they are by no means a permanent cure.

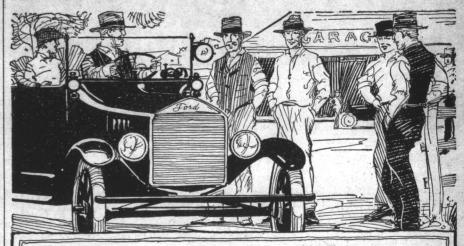
The use of tobacco dust, sulphur, lime, etc., all of these are of some practical value, but in the long run they have not proven a means of eradication. There is a remedy, however, that I have found to be excellent in every respect, and it is easily applied and inexpensive. The solution is made by mixing crude carbolic acid with wavery early. The result is likely to ter, using about seventy parts of water



Intensive Gardening Pays.

kept soaked at that time, the disease plants that are set out. I am careful not to spray the plants too heavily, Experienced growers try to avoid but aim to spray around the roots and planting tomatoes on land that has had all over the ground between the rows. this crop of potatoes or melons on it If the solution is too strong, it may infor several years. All these crops are jure the plants somewhat if sprayed over them. These sprayings should be It helps to get an earl r crop to plant done at regular intervals of about ten on warm, sandy soil. Not only will the days to two weeks and the second or crop be earlier, but the fruit will be third spraying will soon prove that this juicier. Canners rather prefer toma- method is a good one. The fly that toes grown on a heavy soil, because lays the eggs will not stay around they are firmer. It's the sandy soil, plants or on ground that has been treatthough, that gives the best yield, and ed in the above manner and the result the fruit best adapted to market gar- is that these crops will grow and are free from this troublesome pest.

By proper selection a strain of heavy While there seems to be many remebearing tomatoes can be developed dies offered for eradicating root magfrom an early variety. In the eastern was of much value until I tried the states the comparatively new tomato gots, I hav never found anything that known as Bonny Best is high in favor. above solution. My experience as well It is not very large, but is a nice round as that of others who have tried this, smooth tomato, which looks well in seems to be that it does the work and boxes. In Pennsylvania one of the big- with little or no labor involved except gest growers depends upon Earliana the time it takes to apply with the





## Accessories For Your Ford There is Satisfaction in

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ever and whenever you drive.

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gance to the Ford car.

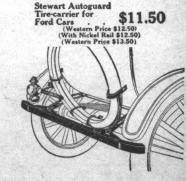
Then there are the other Stewart Accessories for your Ford. The Stewart Autoguard for the front and rear are needed for your car's protection. The Stewart V-Ray Searchlight is indispensable. Stewart Lens makes every road bright and clear as day. The Stewart Warning Signal warns and clears the way for you in any traffic. Stewart V-Ray Spark Plugs put an end to your spark plug troubles.

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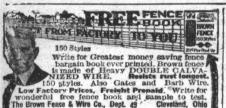
Glazed Tile "Permanent as the Pyramids" Silos — fire-proof, frost-proof, storm-proof, moisture-proof, acid-proof, decay-proof and vermin-proof. Galvanized re-inforcing. Require no paint, no upkeep expense or repairs. First cost is the last cost.

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1-12 H. P. J. I. Case Steam Traction Engine, steel tank and wagon; 1 Peerless Clover Huller; 1 I. H.C. Sito Filler, 13-inch cut, run one season. All above machinery in running order. Write

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Pulverized lime rock for "sour, soils. WE SELL YOU DIRECT.
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\$1.25 to \$1.65 per bushel. If you buy in carloads send for samples. OARPENTER GRAIN COMPANY, Battle Oreek, Michigan.

DEED BEANS—Dark or light red Kidneys \$15 per Shundred, 98% test; Mexican Tree white 97% test \$14 per hundred, bags 50 cents extra, F. O. B. Shelby, O. E. ELLIS, Shelby, Mich.

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BUILD SAMPLE FENCE—Concrete post and wire stretcher. Bigger, stronger, cheaper. Farm rights free. Agents' terms. Concrete Post Co., Waverly, Ohio

Cash for Old False Teeth ter if broken. We pay up to \$20 per set, also cash for old gold, silver, piatinum, dental gold and old gold jewelry. Will send eash by return mail and will hold goods 10 days for sender's approval of our price. Mail to Mazer's Tooth Specialty, 2007 S. 5th St., Phila., Pa.

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Gets all the butterfat all the time by skimming clean at any speed.







Binder Twine—Granges, Farmers Clubs get our price not in the same class with the females end. Some of the most success that are brought in. Nothing is truer dairymen have adopted the system.

## "Blue Lights" in Dairying

pastime or wants to leave some monument for himself which is very enduring and it is true that there is no The Cow You Want more enduring monument than to establish a superb herd of dairy animals because with such an establishment it is a fact that many of these animals will become a matter of history and their offspring will march down through the ages as long as dairy cattle are "I ascertained just what cows they ilization of man is in the progressive ed to buy them." phase. One of the quickest ways to excellent breeding that may be placed said by old breeders who realize the much into a herd header as the comcannot be questioned.

for breeding. It is true that the ser- trons ready for the Old Folks' home. number of practical breeders.

Taboo Registered Scrubs.

from a herd kept on this basis are al- for \$10 more than she is worth. ways in demand while the surplus ani- "I have followed my system for six that, quality grade stuff is plenty good for them. enough for me and I would much rathers by the good grade breeders.

success to get into the blue by secur- a pure-bred bull." ing a fine individual to place at the head Through practical experience this

By I. J. MATHEWS E have been accustomed to than that the herd header is the index speak of the "blue lights" in to the value of the herd and this being stock breeding, meaning there- true, one of superior quality must be by how to attain the highest merit in secured either by outright purchase or the individual's career. In dairying indirectly by sending the cream of the there are two ways of obtaining high females to a superior bull and dependpotential value in the young breeding ing upon getting a son of this bull as herd. Of course, there are really three a herd header. Either one of the last ways, but only two are practical for two schemes are practical but the last the breeder of small means. The breed- one is the least expensive of the two er who has considerable money to start and is probably best fitted for use with often goes into the dairy cattle among small breeders of small finances, business, not because he needs the especially if there are two or more money, but because he either wants a living in close proximity to each other.

BY J. T. BARTLETT.

VISITED the leading breeders in my district," said a Holstein man who, though he started only three years ago, has been very successful. kept, which will be as long as the civ-didn't care to sell, and then I proceed-

The owner knows much more about attain the blue with the breeding herd his stock than the customer, and natis to buy a bull with individuality and urally it is the poorer animals he endeavors to sell. This condition is the at the head of the herd. It has been great difficulty which any man starting out to buy a herd is sure to find. The value of quality in the products they inexperienced, even though they buy have to sell, that a man can put as pure-breds at good prices, often discover at the milk pail that they have bined value of all his cows. This ad- acquired a rather nondescript lot. One vice is given out by so many good shrewd way is to do as the Holstein breeders of proven ability that the man did. It is rather expensive. Anyoung breeder can do nothing better other method is to buy good-looking, than to take the advice at its face val- well-bred heifers and raise them. Some ue and invest in a bull whose quality chances have to be taken inevitably, but they are small beside those in buy-Another way which is some slower ing what the owner shoves forward but just as effective, however, is for priced to sell. The tenthusiasm of two or three breeders to combine and many a beginner with pure-bred stock take the very best cows or heifers is destroyed by the discovery that his they have, at least two, and send them purchases are young culls, which to a bull of unquestioned superiority should go to the butcher, or elderly ma-

vice fees are sometimes very high, but The businesslike practice of a largethis way of getting extra fine individ- scale milk producer commends itself uals is much less expensive than to to consideration. He delegates his buytry to buy males with the breeding and ing to a live stock man who covers his individuality that the young stock will county. He tells him he wants good, have. Of course, the idea in sending large, grade cows, ready to freshen, these cows away is to secure, if possiand that for them he is prepared to ble, a male that can be placed at the pay the top of the market. If a cow head of both herds and the sending of turns out to be an extra good producer, two cows will in three times out of ev- giving seventeen quarts or more a day ery four make it possible to secure the when first in, he keeps her as a permale. These two methods of securing manent member of his herd. If she extra good stock to continue opera- gives less, he ships her to market for tions with are both of them practical what he can get, as soon as her producand have received the sanction of a tion drops to eight quarts a day. Then he tries out a new cow.

"I lose something," this man says, There are a good many registered "when I sell at \$60 a cow I paid \$100 scrubs in breeding herds all over the for three months before, but that loss country and I have observed that the is nothing to what I would lose if I man who keeps only registered stuff is kept the critter in my herd indefinitely. not likely to show progress materially It is funny that a lot of farmers can't better than the man who keeps only see that side of it when they get stuck good grade stuff. It is not enough to in a cow trade. It is better to sell the keep stuff that is registered, it is im- inferior animal at once and accept the perative to keep the best of registered loss than to keep her three years, hopstuff. The surplus animals produced ing to sell her to somebody sometime

mals from a herd kept on the basis of years now, and I find I have to try out registry alone very often drug and fewer cows every year. And the prineven opiate the market. Many people ciple works both ways. I have cows say, "If your registered stuff is all like that are worth three times what I paid

"I sell my calves, because I aim to er have it." In this way the market concentrate on milk and obtain the for pedigreed animals is usually dis- greatest possible production. Farmers counted for the poor registered breed- in the towns around about know I keep and breed only top-notch producers, It is necessary sooner or later in or- and there is a surprising demand for der to have one's efforts crowned with my heifer calves at good prices. I use

of the breeding establishment. Pro- farmer is an excellent cattle judge, gress secured through introduction of but the method he follows in buying high-class females is pretty likely to be new cows for his herd is such that he slow, especially if the herd header is would stand little chance to lose in the not in the same class with the females end. Some of the most successful

#### a Dairyman Can Do What

cheaper than they are now do- plant food. ing? Are there any wastes that costs?

been such a demand for some method silo. of determining the value of the individual cow in the herd. The "star sta-

ciation furnishes the best means of fore. We must eliminate every possifinding her out. It is entirely possible ble waste if we are to continue to milk for the individual dairyman to test his cows in these days of high prices of own cows if he will, but not one in a feeds. We can save money by buying hundred will do so regularly. Yet the our feeds together and we should very testing of all the cows of the herd until promptly arrange to do so. the poor ones are discovered is a matter that should not be leglected now.

Another important item is the feed. The acreage of hay is hardly as great as last year. The yield per acre will as last year. The yield per acre will I have a cow that sucks herself. Is probably be less and hay is not going there any cure for it? to be very much cheaper. A large Presque Isle Co. T. H. B. to be very much cheaper. A large acreage of spring grains is being put

AN the dairyman produce milk condition, and liberally supplied with

No man who expects to keep cows can be cut out on the farm where cows through the coming winter should be are kept? Are there any leaks to stop, found without a silo. It is not fikely any methods of feeding that will help, that the summer will be as cold as the or what can be done to enable the av- last one. It is probable that corn will erage dairyman to cut down production mature next autumn as in other normal years, still it may not. The keep-In our judgment there are but few er of cows should take no chances. If things that may be done. In the first he has no silo, he should build one, for place, no man can afford today to feed whether the corn ripens or not it is a poor cow. Never before has there very important that he should have a

I have often written of the value of cooperative effort in the purchasing of ble boarder should be sent to the block. dairy feeds. This form of cooperation The Cooperative Cow-testing Asso- is more important now than ever be-

W. F. TAYLOR.

#### SELF-SUCKING COW.

In the stable, the best way to break



Now is the Time to Increase the Percentage of High-producing Cows.

in and with good weather a liberal a self-sucking cow is to tie her both quantity may be expected at the har- ways in the stall so that she cannot practically certain to be short, while are persistent in this, after a while she the demand will be very great and the forgets the habit. necessity for using substitutes for But in the pasture lot a different grains as human food.

grow our own feed but again our pa- punishment. triotism inspires us to grow grains for for the dairy.

his own feed insofar as possible. He is every year. fortunate indeed if he has a summer silo, and if he filled it last fall and has it awaiting the needs of the herds through the coming summer he is still more fortunate.

oats, or oats and peas, if he has the

vest time, but the wheat crop seems get her head back to her udder. If you

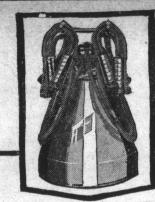
wheat in large quantities will greatly plan must be used. The cow can be increase the consumption of these tied then by having a surcingle around her body and a rope extending from the In the face of these facts we can surcingle to either side of the head so hardly expect that dairy feeds will be that she cannot get her head to her much cheaper next year than they are udder. This, however, prevents her now. It is easy to say that we should from fighting flies and is really quite a

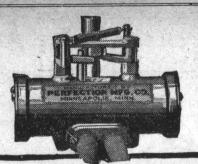
I think the best way probably is to human food and we need not look for get at almost any hardware store what the average farmer who keeps cows to is known as a calf-weaner. This is an disregard this obligation and devote an arrangement that is fastened in the extensive area to the growing of feed nose like a bull ring and extending all around on this ring are long, sharp We fancy that the problem of pas- spikes so that when she goes to suckture for the herds is going to be more herself these spikes are prodded into difficult this year than in some time. the udder and flank and she soon gives Rough lands that cannot be tilled, fields it up. Cows can eat fairly well out of that are very hilly and difficult to work a manger with an arrangement of will be pastured to a great extent, but this kind in the nose. They seem to when all grains are bringing the price get along on pasture all right. After a that is paid in our markets today, we reasonable length of time if this don't can hardly expect the dairyman to pas- break the cow of the habit, I would disture lands adapted to their production. pose of her for beef because it is a nui-However, the dairyman should grow sance to have to keep this thing up COLON C. LILLIE.

#### WATCH THE MILK COST.

rough the coming summer he is still
nore fortunate.

Notwithstanding the protracted investigations conducted by city commissions to determine this question, and in some instances a large amount of companions and in some instances a large amount. oats, or oats and peas, if he has the peas. Oats and peas will furnish large quantities of splendid roughage if the ground where they are sown is rich enough. If one sows a small area near the barn to a soiling crop for the cows, he should see that the land is in good did in some instances a large amount of camouflage seems to be thrown over it, any dairyman who keeps books ought to be able to answer it approximately. Of course, the cost varies, as it does with everything else, but we are now at a crisis when the figures should be generally and fairly definitely known.—E. H.





## The Heart of The Milking Machine

THE pulsator is the heart of any milking machine. It controls and regulates the action of the teat cups on the cow's teats.

A man with a weak heart would not be accepted for military service. You should not accept any milking machine with a weak heart. The Perfection has the heart of an athlete. His heart beats are strong and steady. He can stand lots of work and thrives on it. The Perfection pulsator is simply a piston working back and forth in a brass cylinder, no cog wheels, weights, levers or "clock work." It does not easily get out of order, and with ordinary care it should outlive any other piece of machinery on the farm. The Perfection milks as the calf does, with a gentle suction, a downward squeeze, followed by a period of complete release. The pulsator can be instantly adjusted to suit either a hard or easy milking cow. This point is a very important one. Not all cows milk alike

and the Perfection recognizes this fact.
The action of the Perfection on the cow's teats, which is nature's way, and the possibility of adjusting the machine to suit different cows are two of the many points in which the Perfection excels all other milking machines.

Newman Bros., Elk Grove, Cal., write:

"As you know we produce certified milk and would not be allowed to use any machine that would injure a cow's teats or udder or adversely effect the bacteria count. We have milked entirely by machine for about two years with perfect satisfaction to all concerned, including the cows. One man with ordinary intelligence is doing with the machine what it required three men to do in the old way. We would convict ourselves of being either philanthropeists or fools were we to go back to to the old way. We are familiar with most makes of milking machines and have tried out several of them. The Perfection is superior in several respects. First Both suction and squeeze can be changed instantly and adjusted to the individual cow. This is a mighty good thing, as any milker ought to know. Second: The Perfection will milk more cows in a given length of time. Third: The Perfection pustaror is more simple; has fewer wearing parts and is easier to adjust. Fourth: The teat cup rubbers last much longer than on one other machine which we tried. I cannot understand the dairyman, who modern in every respect, will go on milking by hand when he could cut expenses and make dairying more attractive, to say nothing of sanitation, by using a Perfection Milking Machine. When we need more milking machines, the order is yours."

Write for free illustrated catalog. It contains valuable information. Newman Bros., Elk Grove, Cal., write:

Perfection Manufacturing Company Minneapolis, Minn. 2126 East Hennepin Ave.













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

When writing to advertisers please mention The Michigan Farmer.

## \$7 Protects Your \$1000 Car



You may not be at fault if your car injures a woman or child. Nevertheless several thousand dollars in damages may be collected from you. Why assume this

Let us insure you against personal liability, defense of suits, property damaged, fire, cyclone, windstorms and theft.

At a small additional cost we will protect you against damage to your own car from collision.

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

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

Mº CLURE

The needs of your country require the greatest possible

production per acre. The demand for our products is increasing every day.

You can produce more-in-

crease the power of your acreage with a silo,

You can increase the amount of labor per man with a milking machine.

Add these money-makers

## ance every summer and to "swat treated manure." the fly" after he has laid his eggs

early in the season you kill a million," truth to it. Proper control measures catch many of the adults. public health.

may be summed up as follows:

the fly. This can be accomplished by place. keeping the garbage in enclosed coning of flies.

By DON B. WHELAN O be sure, the house-fly is a nuis- three gallons of water over the borax- periment Station, has devised a way of

Time Now to Hit the House Fly

is practically useless. To get the great- places to catch them before they lay dissolve it in a barrel of water, adding est benefit it should be killed in its their eggs. Traps are made of wire to it a gallon of molasses. Fill a combreeding places or caught before it can screen that fit into the barn window or mon sprinkling can with the fluid and lay its eggs. "For every fly you kill on top of the garbage pail. Common sprinkle floors and sides of the barn wire screen traps, with bait in the bot- near the manure piles. Care must be has often been said and there is much tom, placed near the manure piles will taken that cattle cannot get where

to eliminate this annual menace to the them. The use of screens on doors put in a place inaccessible to any aniand windows of dwellings is quite gen- mals. This poison proved to be very Methods of combatting the house-fly eral now and should be even more so. effective on the college farm last sum-Food such as milk, butter, etc., should mer when other slower acting poisons, 1. Protect the breeding places from be covered or placed in a fly-proof failed to keep these pests under

5. Poison their food. Many flies will tainers where the flies will not have enter the house in spite of our eternal access to it. In the country care should vigilance and will have to be dealt with GIVE CALF A GOOD START DURING be taken in the disposal of manure. If there. The fly-swatter should be kept the manure pile is allowed to sprawl busy but alone it can not cope with over a large portion of the barn yard the invaders that are constantly com-

killing flies around the cow-barn. Take 3. Place traps near their breeding eight ounces of arsenite of soda and they can lick it. The barrel of poison taken early in the season will do much 4. Shelter food and dwellings from when not in use should be covered and control.

## SUMMER.

The calf shows very quickly the efthe conditions are ideal for the breed-ing into the house. They need water fects of poor care, and this often octo drink and by giving it to them with curs during the summer months be-3. Kill them in their breeding places a little poison in it it will aid in their cause of the pressure of other work, by means of some chemical. Govern- destruction. One poison of this nature although it is really much easier to ment experts report good results from is to fill a shallow dish about half full keep a calf thrifty in summer than in the use of borax which is applied at of water and add to a tablespoonful of winter. Calves grown on farms should the rate of 0.62 pounds of borax to formalin. Milk may be used instead of have grass pasture provided for them eight bushels of manure immediately water. Place a couple of bread crusts and should be fed some grain, preferon its removal from the barn. "Apply in the fluid for the flies to stand on. In ably cats, during the first five months the borax particularly around the out- order to be more effective other fluids of their life. In taking them from the er edges of the pile with a flour sifter in the room should be covered up. Dr. cow and raising them by hand on skimor any fine sieve, and sprinkle two or George D. Shafer, of the Michigan Ex- milk, you are preventing them obtaining butter-fat, which is a natural part of the food of a young animal. You must replace this, insofar as it can be replaced, by the use of a grain rich in oil, fed to the young animal on grass, The present spring has been one of oats and ten acres of barley, and forty the grass itself, taking the place of the the most favorable for doing farm work acres of peas. We have yet, May 7, butter-fat in milk to a small extent. A

#### dry weather, it is wet weather we acres for the canning factory. I have able, healthy, strong and rapidly growdread, and this spring the latter part not given up the idea of planting early ing animal, while a stunted calf will

of any within my remembrance. In to plow forty acres for corn and we are calf grown upon skim-milk, grass, and our particular locality we do not dread still going to try lima beans on twenty a small amount of oats, will be a profitof March and up to about the twentieth sweet corn with the lima beans so that require much more feed next winter to of April, we had dry weather. Our this will be a succotash crop. We get him started towards making good land worked in splendid shape and we have placed partitions in the seed box gains .- G. E. M. succeeded in getting more crops in of the grain drill so that we can plant than we really expected. Our Wheat Fields. I wanted to get in one hundred acres different feed openings of the drill and

Lillie Farmstead Notes

of wheat last fall. We only succeeded then by tieing the distributing hose toin getting in eighty-five acres, though, gether, have both kinds of seed deposis a good thing, however, that we got both kinds of seed. in no more than we did, because all the late-sown wheat in this territory is is very poor. this field ought to have been sown to cold, wet weather I didn't succeed in generally insure such an action. spring crops but we seeded it to clover getting a stand of either plant. to go at least thirty bushels to the cows can get sufficient nourishment senious acid, two drams. Mix. acre.

A Crop of Succotash.

succeeded in getting in fifty acres of short time.

the lima beans and the sweet corn at the same time, having them go through

May Have Trouble Harvesting.

nearly a failure. Twenty-five acres of tash crop on the same basis that I bas-eaten. what we sowed last we had to put into ed my faith in growing soy beans and seed wheat worth \$2.50 per bushel be- that I can get a fairly good growth of and horses are not doing as well as sides the labor wasted. Of the wheat both the early sweet corn and lima they should for the feed given, a worm just fair. It looks as if it might yield the trouble in harvesting the sweet In treating horses for worms, Dr. L. S. fifteen bushels to the acre and it is in- corn because it will be ready to can be- ackus, of the University of Missouri teresting to note the condition of this fore the beans are ready and we have College of Agriculture, suggests it is wheat. The field is one-half mile long got to go through the field and pick well to keep in mind that the drug is and forty rods wide. We began on the the sweet corn, if we have any, and meant for the worm rather than the farther side of the field to sow. After then later on harvest the beans. The horse and should therefore be given in about a day's drilling we had a rain stalks of this corn are quite small and as concentrated form as possible. To which prevented us from getting on I don't anticipate any trouble in put- insure this, little or no bulky food the land for several days, then, after ting them in connection with the beans should be fed during the course of another day's drilling and it worked thresh the beans. These stalks will be stupefied by worm remedies rather this way to the last, so that this sixty dry but there is much sap in the beans than killed, the animal's bowels should acres is put in on the installment plan so that there will be plenty of mois- be kept in an active condition so that as it were. A small area of about four ture in the silo for the sweet corn- the stupefied worms may be passed out or five acres was put in real late; that stalks in the ensilage. Last year I before they regain their vitality. A The poorest portion of tried this same thing but owing to the well-salted bran mash once a day

from it. The last few days, however, Give one heaping teaspoonful to ev-

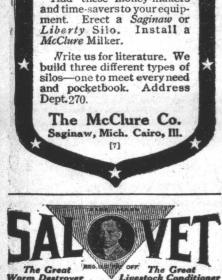
#### WHY SOME HORSES DO NOT THRIVE.

Many horses lose condition, or fail had the weather held off we might ited in the same row. In this way we to make gains because they are infecthave put in the one hundred acres. It hope to get an even distribution of ed with worms. This is especially true of colts. Horses suffering from worms generally have a good appetite, but ap-I am basing my faith in this succo- parently benefit little from the food

There may be no symptoms which spring crops. It was an absolute fail- corn for ensilage. Since the plants are point conclusively to worms, but this ure. There is fifty bushels of good entirely of a different nature I reason trouble is so common that if the colts that remains, sixty acres, will average beans. I expect there will be some lit- remedy may prove of decided value. fitting the land over we got in about through the viner when we want to treatment, and as the parasites are

The following formula is a worm so that we will take what we can get. While the season has been dry and remedy which is also of value as a The remaining twenty acres of wheat favorable for spring work it has not tonic: Powdered nux vomica, two which was sown first we seeded about been favorable for the growth of pas- ounces; powdered gentian root, four the fifteenth of September. This is a ture and there is very little pasture in ounces; powdered areca nut, six ouncgood field of wheat and bids fair now this vicinity so that young cattle and es; sodium chloride, four ounces; ar-

of warm weather and a good rain has ery 250 pounds of weight, every morn-We didn't get as much fall plewing started the pasture wonderfully and if ing and evening for about ten days. done as we ought to, but the favorable the warm weather continues there will The medicine may be mixed with spring, is helping us out and we have be an abundance of pasture in a very ground feed or sprinkled over oats or COLON C. LILLIE. corn which has been dampened. Just with the





FREE FROM WORMS and save its cost several times over by enabling your stock to get more benefit from their feed. They will thrive better and fatten faster. SAL-VET is the best known and most widely used stock conditioner on the market. Sold by reliable dealers and guaranteed. Your money back if it fails.

The Fell Mfg. Co. Dept. Cleveland, O.



When Writing to Advertisers, Please say "I Saw Your Ad. in The Michigan Farmer".

#### WHAT ARE YOU FEEDING YOUR right. But feed is worth more in these HORSES?

(Continued from page 671). small quantities with either of these grains, with good results. Bran is hard to get just now, however, a little can be obtained now and then, and it can be put to no better use than to be given sparingly to the horses.

I am convinced that we farmers might have been much better off in the matter of grain for both cattle and horses if we had availed ourselves of opportunities at hand. In the states to the south of us, here and there were localities in which corn ripened fairly well. The people in the great corn belt are apt to store their grain in cribs that are much wider than ours, and I imagine that much corn which was only partially ripened has spoiled since the warm weather came on. Had the farmers of Michigan been more thoroughly organized, and more alive to their opportunity they might have bought many more cars of this corn, and distributed it where it could have been stored in narrow cribs in which it would have kept perfectly. This corn could have been obtained through efficient methods at a much lower



on the Western Front.

eral market. This fact has been very shape. If a men knew the history of clear to the writer for months but he the hay, knew it was cut on time and has been far too busy with other mat- properly cured, he could be more certers to take up the work himself, tain of making a good investment, but There are at present some other op- where you have to pay a big price for portunities for communities that buy hay that is not palatable and not very their feeds in carlots. There is a con- digestible, it is expensive food. I was siderable quantity of by-products from afraid the cows might fall off considerthe manufacture of breakfast foods able in the flow of milk without hay, that is available just now. There is but the pea vine silage was of splendid nothing better among these than corn quality. One curious thing that I noflake feed. Horses will not eat it well ticed was that the cows consumed quite alone, but if mixed with bran or a very a large quantity of straw which ordilittle cornmeal, or both, they will eat narily they would have refused. it with a relish and it will be found an excellent ration.

received several inviting offers of salvage barley. There can be no objecsheep, though hogs will eat it and do make anything. Will they do it?

much over two and one-half cents per corn at \$3.00 per hundred pounds. pound. This would be a great saving C. C. L. over any possible combinations of grains purchased in small quantities in the retail market.

But you say fifty dollars per ton is a high price for feed, and you are McMillan, Mich.

days because the time and energy of the horse has increased in value in proportion to the prices of farm products. These are days in which we need and must have the maximum amount of labor from the farm team. Man power is too scarce, and time is too precious to allow the hired man or the proprietor of the farm for that matter, to waste his time behind a team that is half-fed and for that reason unable to do more than half a day's work. I was not there, but I believe it was Moses who said: "Thou shalt not muzzel the ox that treadeth out the corn." We must apply the sense of the old commandment in the care of our horses in these days. It is important to provide the grain just as cheap as we can, but grain in liberal quantities our horses must have.

The horses that are helping to win the war are not all on the western front. In the fields of Michigan farms horses today are performing an equally important part of this great task. As good soldiers of agriculture, we should feed and care for them more liberally and more intelligently than we have ever done before, if possible.

#### DOIN GWITHOUT HAY.

We did something this year that we never did before in the care of dairy cows and all the rest of the stock except the horses. We ran short on hay but we had quite a good amount of pea vine silage and good straw. I was disappointed in not having a sufficient amount of hay and I conceived the idea of getting through to grass without buying any more and so we increased the ration of pea vine silage, substituted straw for hay as a dry roughage, and increased the grain somewhat for the cows and for all the young cattle. There was a very slight falling off in the flow of milk but not very much, and I am inclined to believe that I exercised economy in not buying hay. The trouble of it is in going outside and buying the kind of hay you want. If the hay was too ripe when it was cut it isn't much better than straw Helps to Win the War Although Not anyway, but you have to pay just as much for it as you would for hay cut price than has been paid in the gen- at the proper time and cured in prime

COLON C. LILLIE.

#### Within the past few weeks I have WILL HOGS PAY FOR THE FEED.

Whether I am going to get pay for tion to the feeding of good salvage corn that cost me \$3.00 per hundred in barley to horses. I should not want to finishing hogs is a question. Hogs feed marine salvage to either horses or ought to sell for about twenty cents to well on it. But good elevator salvage is had hopes that by June the market all right for any animal on the farm. would work up to at least close to The writer realizes that these are twenty cents. If it doesn't, I cannot days in which those of us who cannot see how I am going to get pay for the do as we would must simply do the corn which I am feeding them at the best we can. But in these times of present time. Of course, we have fed stress we ought to learn the import- them during the winter some cheap ance of acting together. In such neigh- salvage grain and also skim-milk and borhoods there will be no scarcity of the growth we get from this sort of grain for the horses or for the other feed probably will pay it, but they farm animals, for it will be bought in must have a considerable quantity of carlots and distributed at the lowest corn to finish them for market. Had possible cost. At the present time it I raised my own corn last year it would should be possible to compound a grain have been a different proposition beration for a horse that would not cost cause there is a good profit in raising

> "I'm lost when I miss a paper. have taken it for over 24 years and my father has taken it since I have been big enough to remember.—M. D. R.,

## Empire Red Tubes

Last as long as the average car itself



#### C. H. Johnston, of Johnston Vulcanizing Co., Oskaloosa, Iowa, writes:

"We have sold Empire tubes for the past five years, and know from experience that your page in The Saturday Evening Post certainly tells the truth. We sold quite a few Empire Red Tubes five years ago that are still in use, although the cars that they originally supported have been junked."

HE advertisement which Mr. Johnston, and scores of other veteran dealers, back up with their experience, was in part as follows:

The average car owner should not have to replace an inner tube any more than he has to replace his rims. Rims get broken occas-ionally. But usually they last as long as the car itself. And so should tubes.

The trouble is, that if a tube lasts as long as the casing, the car owner is satisfied. He unconsciously judges both by the same standard—the mileage.

But the true measure of tube service is not the speedometer. It's the calendar.

A tube gets very little wear. The casing takes care of that.

What usually puts a tube out of business is premature old age.

In the ordinary tube, as time goes on, the rubber gets brittle and "checky." Then small cracks appear and leaks develop and

finally the tube will not hold air. In the same way, rubber bands lose their snap, and rubber hose breaks open.

The truth is that rubber deteriorates with time.

To build an inner tube that will last, you must do something that gives to the rubber longer life than it naturally has.

This is just what is accomplished by the secret chemical process used exclusively by the Empire Rubber and Tire Company of Trenton, N. J.

Empire Red Tubes have been sold for ten years.

Many of the first ones made are still in service—as live and airtight as new rubber.

Many of them have been punctured and repaired over and over again.

Ten years' record has proved that in the vast majority of cases an Empire Red Tube will last as long as the average car itself

## The Empire Tire Dealer





money on Farm Truck or Road Wagons, also steel or wood wheels to dt any running gear. Send for it today.

Betting Wheel Co.

35 Elm St., Quincy, III.

Mention The Michigan Farmer When Writing Advertisers

## A National Board of Agriculture

(Continued from page one).

The purchasing power of agriculture opinion. working ten hours per day at a wage It is non-political, and with headfifty cents per hour.

How Industrial Men Do It.

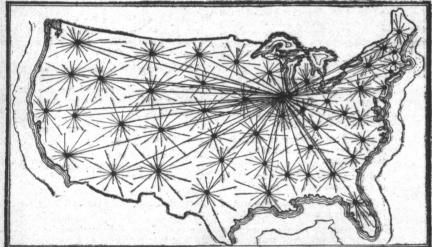
the maintenance of the national organi- sidered expression. zation with headquarters at Washing-

attention of organized business is fo- but as a paying and essential part of

existing units of organization into state correct financial legislation and credit and national bodies to express agricul- laws. The special service called upon tural needs, and to place the American in connection with the war, has been farmer on the same business basis as rendered most effective by this body, the industries to whom he sells and and it would be hard to find a more from whom he buys, a workable plan? potent force in nationalizing public

schedule of thirty cents per hour is be- quarters at the national capital, it is ing measured against the products he the industrial approach of democracy buys, produced in an eight-hour day at to government maintaining the best traditions of public service. The reports of conditions acquainting its The Chamber of Commerce of the members with business needs and com-United States consists of approximate- mercial probity, has been one of the ly 1,500 local chambers in all the states strong features. When business speaks of the Union, organized and employing through the National Chamber of Compaid secretaries, also contributing to merce, it is an authorized and well con-

The financial support given by business men to the local and national bod-Annual meetings are held, and the ies is not looked upon as philanthropy,



How National Board of Agriculture wit h Headquarters at Chicago, would Represent All Sections of the Country.

cussed on the program that will best the business enterprise. The membering information direct.

Chamber of Commerce has been along is conducted.

aid commerce. The foremost talent of ship fees and annual dues are paid, bethe country appears before these as-cause a service is rendered. The exsemblies, from whence opinions crys-ploitation of one industry as against talize in public policy associated with the general good is not countenanced, the advancement of their interests, and it would be well nigh impossible The national headquarters is in touch of accomplishment if attempted. The with every local body, and is contribut- Golden Rule is good economics, and also business practice, and must be On questions of public policy, the re- fundamental to any long continued naspective viewpoints are presented, and tional organization. The outline here then a referendum is taken of the local of business mens' methods is to briefly chambers of commerce in the United explain how organized commerce which States. The service of the National is largely dependent upon agriculture,

## Handling Hogs In Transit

due to overcrowding or mishandling, liftc source of mortality. means a loss, at present prices, of prob-

1. When hogs are very hot, during of corn to a car. or after a drive, never pour cold water over their backs.

2. Before loading, clean out each car and bed it with sand which, during In choosing a mule for farm work dry, hot weather, should be wetted one should pick an animal of plain but down thoroughly. Hogs in transit dur-rugged frame—one that carries plenty ing the night only are not so likely to of bone. Particular attention should be lost from overheating as are the be given always to the animal's feet animals shipped in the daytime. With and shoulders. A mule should stand day shipments in hot weather it is squarely on his feet and carry a collar highly advisable to suspend burlap well. The mule's foot is narrower sacks of ice from the ceiling in various than that of a horse and because of parts of the car in order to reduce the lack of bearing surface it gets out of temperature, and incidentally, to shape more quickly. Hence care should sprinkle the animals with cool water. be exercised to select an animal whose The ice sometimes is placed in sacks feet have not been neglected. As for on the floor, but the animals are likely age, the mule is at its best when about to pile and crowd around the cakes so eight years old. From then until it is that only those close to the ice are twelve there is little deterioration. Afbenefited. The ice should be sufficient ter this its powers wane rapidly and to last to the destination.

3. Do not overload. Crowding hogs market.

Every hog that is killed in transit, in a car during warm weather is a pro-

4. The feeding of corn, because of ably more than \$30 to the shipper as its heating effect, before and during well as a waste of meat needed by the shipment in hot weather should be renation. Mortality in transit or after duced to a minimum. Oats are preferarrival at the central market can be able where a grain feed is necessary. lessened greatly in hot weather by the The maximum maintenance requirepractice of the following simple pre- ment of hogs in transit for twenty-four cautions on the part of shippers and hours is one pound of grain a hundredweight, or approximately three bushels

#### SELECTING A FARM MULE.

the animal brings much less on the

### A Message From The Resident

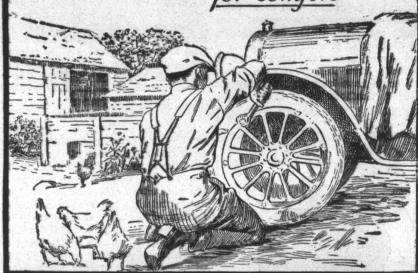
By adding this new 75c. "High Grade" President to the regular President line the 150,000 "President" Representatives in the United States have at last a choice of suspenders that will appeal to every man who demands quality and comfort in wearing apparel at a thrifty-

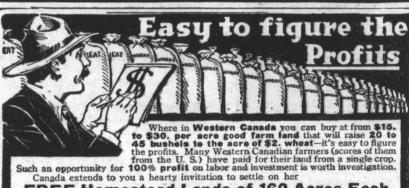
The man who buys the 75c. "High Grade" President, or the regular 65c. President, receives the utmost in value and service for the money. And the man who sells the line receives a return on his investment that makes his suspender business exceedingly worth-while.

We guarantee to repair, replace or (if requested) to refund the ey if any President he buys is not absolutely satisfactory. We go to the dealer.

Representatives everywhere self Presidents. They should keep in advance the demand by ordering the new "High-Grade" now from their Jobbers he purchaser will profit in its splendid value. The dealer will profit not lit in the customer's appreciation and good-will, but also in dollars and

High Grade-a now oneTresident Suspenders
for comfort





canada extends to you a hearty invitation to settle on her FREE Homestead Lands of 160 Acres Each or secure some of the low priced lands in Manitoba, Saskatchewan or Alberts. Think what you can make with wheat at \$2. a bushel and land so easy to get. Wonderful yields also of Oats, Barley and Flax. Mixed Farming and cattle raising. The climate is healthful and agreeable, railway facilities excellent, good schools and churches convenient. Write for literature and particulars as to reduced railway rates to Supt. Immigration, Ottawa, Canada, or to M. V. McINNES,

178 Jefferson Ave.,

Detroit, Mich.

For Potato Bugs And Blight use SULFOCIDE **CAL-ARSENATE** 

a new combination which bids fair to replace the oldLime Sul hur-Arse-nate of Lead and Bordeaux-Lead mix-tures, in both orchard and garden. It is more powerful and much less ex-pensive. I gallon and 4½ lbs. makes 150 gallons of spray.

Send for circular

B. G. PRATT CO., Mfg. Chemists 50 Church St. Dept. 22 New York

Ensilage to the Top

Was your Silo really full when you began winter feeding? The average Silo when filled in a hurried fashion settles about one-fourth. If you'd like to know how the upper fourth of

Your Silo can be made to pay \$95 to \$150 yearly, extra, write for our 1918 catalogue to-day—

it's free for the asking.

PAPEC MACHINE CO.

150 Main Street, hortsville, New York

## BEEHIVES, SECTIONS

comb foundation, smokers, etc. Everything for the bees. Send for our catalog.

BERRY BASKETS AND 16 QT. CRATES



200 Standard quart bas-kets (wood) postpaid, \$1.60. 200 Wax Lined Paper baskets postpaid, \$1.40.
Above prices apply to points within 150 miles of Lansing.
Special prices on baskets and crates in arger quantities.

M. H. HUNT & SON,

Seed Buckwheat \$5

Young-Randolph Seed Co., Owesse, Mich.

Dry Cedar Fence Posts by Car Lot furnished farm-rates. O. W. OSMUN, Tower, Michigan.

WANTED First class shelled and fanned Popcorn, forward sample. Murphy & Morrison, 102 No. Michigan St., South Bend, Ind.

When writing to advertisers please mencion the Michigan Farmer.

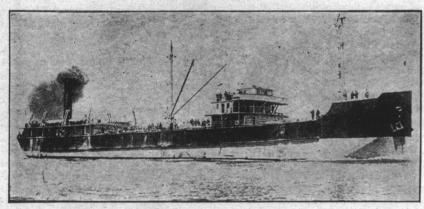
# Magazine Section

LITERATURE POETRY HISTORY and **INFORMATION** 



The FARM BOY and GIRL SCIENTIFIC and MECHANICAL

## WORLD EVENTS IN PICTURES



Concrete ship "Faith," first of kind built at San Francisco, exceeds all expectations on trial trip, averaging more than ten knots an hour.



Scene on mud flats at Newburyport, Mass., where men with cultivator and hoe are busy planting—not a garden crop, but clams.



Aviator making ready for the first official mail carrying flight recently in-augurated between New York City and Washington.

Postmaster General Burleson, President Wilson and Mrs. Wilson watching start of first mail aeroplane from Washington to New York.

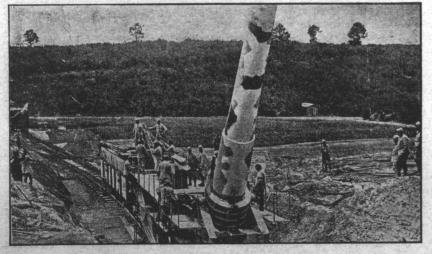




This company of American soldiers marching up to take its place in the trenches is resting while enroute to the front lines.

French and American soldiers advancing cautiously across No Man's Land, carrying grenades in sacks slung over their shoulders.

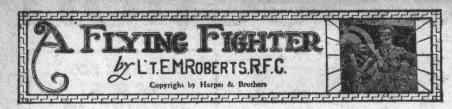




Mounted on a specially constructed railroad track, this big French gun is ready to pound away at the German lines. It is well camouflaged to prevent detection by enemy aerial observers.



Wounded Scottish troopers, undaunted by recent strenuous fighting, smile as they make their way to the nearest dressing station behind the lines.—
(British Official Photo).



Synopsis of Preceding Chapters. F. M. Roberts, an American, born in Duluth, Minn., with an inherited love Duluth, Minn., with an inherited love of adventure, was up in the foothills of the Rockies, drilling for oil, when the war broke out. In October, 1914, he started on a trip to Calgary, and on the way learned of the great conflict taking place in Europe. Reaching Calgary, he enlisted in the Tenth Canadian Infantry Battalion. On account of his knowledge of mechanics he was given a position as driver of a heavy motor truck or "lorry," and later was made sergeant of a mechanical transport section. After months of training port section. After months of training they were sent to England and Roberts was later selected by draft for the mechanical service in France. At the second battle of Ypres he suffered severely from a gas attack and was sent to an English hospital to recover. In August he returned to France where he was placed in charge of a motor transport division, carrying supplies from the railheads to the front lines. One night he received orders to take two lorries loaded with barbed wire and steel pickets up to the lines. On the way they were obliged to pass along an open road in full view of the Huns. Roberts speeded up his motor by crawling out onto the hood and holding up the governor of the engine. In this manner they speed down the road, with shells falling all about.

The German batteries began to look for revenge and very soon the battery that had brought down the Hun bird-

We had gone another mile and ahalf towards the dump, when a small shell hit one of the armored front wheels of my lorry and blew it off. The lorry fell on its axle, but aside from being strained a little and having lost a wheel it suffered no damage. We managed to get a spare wheel and by midnight were on our way back to the camp.

### CHAPTER VI.

FIVE days later I had a like experience while rience while carrying lumber to the front for the repair of a field dressing station about two hundred yards behind our lines. To get there exposed ground had to be traversed. There was a similar screen of sacking at that point, and the sentry who diabout three hundred yards square, were stationed there, and then I knew why the Germans had dug up the field so well. They had been looking for this battery for some time and that ac- niture in the ruined houses. We found er. Motor cycling on a good road is a ed the railhead. It dropped six bombs. counted for the many shell craters.

nearly dark and then continued. My shrapnel, and some crockery, which we is impossible to go fast because that women and two children and a police lorry had been seen, however. As I picked up in a cellar of a building that shakes the wheel all to pieces and is sergeant and his horse. I looked up at down that road as fast as the motor winding stairway, of which only parts a country such as Flanders, especially craft guns were working hard to down would take me. I had climbed through were in place. the head of the lorry and was lifting up the hood to release the governor and looked into the rooms, from which head to foot, and dispatch riding is the atrocities committed by the Germans. the hips that I was almost knocked by shells. The furniture was still in night. Occasionally you run into a stories I heard about them, there was off. We did not stop but went right on the rooms, and clothing was strewn all shell-hole in the dark and that means no vestige of doubt left in my mind tion, about two miles from the point spoiled by rain and the shells and was of their bark. Another feature of dis- the Huns were capable of doing. where I had been hit, the doctor pick- on the verge of falling apart, but for all patch riding is that you move constant- I was driving up the road one aftered a bullet out of my side. Fortunate. that it was still evident that it had ly in zones where a shell may call you noon about four o'clock. The sky was ly, it was a spent bullet and aside from been occupied by people of wealth. having the wound sterilized I needed back at work.

it blew its head off.

some furniture for a sergeant's mess. until I gave it to a peasant girl.

ble and found cover for the lorry in the lee of a blown-up building. It was a fine day and a Hun Taube was sailairplane, with the result that a great silver knives and forks, and two kitchdeal of shrapnel began to fall around en chairs. Then we went to the wine We had to get under a cover, but us. anxious to see what would happen to lot of empties gave evidence that some-Heinie aloft, we ventured out again, body had had a good time in that cel-The British batteries were getting the bead on the Taube. In the blue sky around the aircraft shrapnel clouds were visible and gradually came closer the machine, which seemed to come to card I kept myself. a stop immediately, then broke in two hit the earth with a crashing sound.

I was still very much interested in wondered whether, after all, that game was worth while.

The German batteries began to look



Lieut. Roberts While Dispatch Bearer.

there were as many as one hundred piece of shell hit the rat. It died then of the German batteries started and behind the line a shell carried off poor showed me that some of our forces of us had the same thought: even a rat hadn't a chance in those parts.

One of the rooms must have been

We got to the place without any trou- On the next floor must have been the geant escorted me to the C. O.

room of the old man. We found sevdead. We examined the rooms on the had been there before us. In the kitch- misisoned officer. en we made a haul, however. We found cellar but not a drop did we find. A New Testament in Dutch, and in it

We were about to drive off when we and came hurtling to the ground. It heard a dull boom in the distance, and ing and since I had to send to England a few seconds later a big shell screech- for them, I was not anxious to lose ed over us and exploded a block away. them. I saw them about twenty feet military aviation, but for a moment I There was no time to lose, but as we ahead of me and, finding my legs unmade off Montgomery and the boys steady, I rolled towards them. Before sang a little song from the west:

"He's a bold bad man and a desperado, ly afterwards I was picked up and sent Blows into town like a big tornado; Steals all the money from the people

in the land,
He's a curly wolf at shooting with a
gun in either hand."

heard

gium, but now all its walls were hope- Copman for the infantry. lessly wrecked. The parts of the build-

After a while the bombardment end- result that I was transferred to head- for service after that. ed, and then we started to hunt for fur-quarters as a motorcycle dispatch bearhalf a dozen chairs and a table with a pleasure, but on wet cobblestones and but only two of them exploded. when the rainy spell is on, motor cyc- the machine, but did not touch it at all. I climbed to the top of the structure ling keeps you covered with mud from upon arrival at the dressing sta- over the floor. Everything had been that your shins are always minus much after seeing with my own eyes in at any moment.

little attention. In a few days I was that of a young lady. In a dresser I the army as I discovered again, when though ten miles behind the lines, the found a pink evening gown and other I had used my own judgment on one guns could be heard plainly and I felt On that trip also I saw a mule hit articles of feminine apparel. I took it little trip I made. I delivered my mes-lonely and homesick. on the head by a shell, which showed for granted that the owner of the dress sage, but on my way back I had gone Beyond the little hill I spied a low me what annihilation really meant, as was some beautiful girl, and I was still out of my way to see a pal who was at red building with a cross in front of it, wondering what she might look like a wireless station further up the line. which I took to be a convent. Not be-Shortly after my return from the when Montgomery sneaked up the I was having a chat with my friend ing in a hurry, I thought that I would hospital Sergeant Arthur Montgomery stairs and shouted for me to come when the signal officer came up in his call on the French Fathers. They are Dyas and I started for the ruins of down. I took the gown along and it car and saw me. That was enough, always very interesting and knowing

That personage wanted to know what eral pipes and a pair of slippers, and a I had been doing ten miles out of my torn night robe. Back of this room route. I told him that I had seen no was a sort of conservatory; it had been harm in going to see my friend. The a pretty place once, but was that no commanding officer could not see it longer. All the glass was broken and that way. He led me to understand the flower pots and boxes lay pell-mell that he was the brains of the company on the floor, with every plant in them and that I had no right to think at all -that I was there to ride. But I got ground floor and found that Tommie even with him after I was made a com-

A severe reprimand was all the puning overhead. The British anti-aircraft there a lot of dishes, three cut glass ishment meted out to me. That same batteries were concentrating upon the fruit platters, two soup tureens, some night I made a trip up the lines and was going along at a fairly good speed when a scream and a crash about tweaty-five vards ahead of me suddenly halted my progress. The next thing f knew was that I was lying against the lar. On leaving the house I spied a bank on the side of the road some fifbook. It turned out to be the Old and teen feet away from the motorcycle. A pain in my left shoulder told me what was a card which I took to be that of part of my body had struck the earth to the machine. Of a sudden the flash the young lady. The Bible I sent to first, and when I tried to move my neck of a shrapnel appeared directly under an old church-going friend and the that pain grew more intense. I began to spit blood. My head started to buzz.

> I noticed that my goggles were miss-I reached them I fell flat twice. Shortto the base hospital and from there to England.

Two months later I was back in France and attached to my old trans-The ruins of Ypres were a striking port section. I found that there was sight. It rather broke us up to see considerable unrest among the boys for that beautiful and thrifty little town the reason that all of them were trying being flattened to the ground. There to get commissions. By this time also was an oppressive silence in the streets I had made up my mind to get into the during the few moments when the de- Flying Corps. Scott and Beatty, good tonation of guns and shells was not friends of mine, had the same ambition while others of the section were trying I looked at what had once been the for other branches of the servicefamous Cloth Hall. I had been told by Jimmie Brown and Bud Shore for the some French people that it was one of artillery, Alexander McCollough for the finest buildings in France and Bel- the machine gun section, and Dyas and

We secured the necessary transfer ing that had not been blown up were forms, filled them up and sent there so shaky that the concussion of nearby in. Meanwhile we were trying to & > ? exploding shells would topple them ov- information on the nature of an or le er. There was no life in Ypres-noth- cer's work in the different units. Was ing but rats, rats, and millions of them. had made up our minds to take a mer 3 I went into several houses which had serious view of army life, but before for man received their close attention. The been inhabited by people of wealth and heard anything from my application U rected the traffic on the road did not ruins of the town were not overlooked. everywhere met traces of the things was back on the job hauling coal and want to let me pass. To lend force to Masonry, bricks and the fragments of which make for refinement—paintings, ammunition. The chances of getting his arguments he drew my attention to shells filled the air, but the only cas- good furniture, and beautiful candela- into the Flying Corps seemed very rea nearby field, in which, though only ualty I noticed was a large rat that had bras. Everything had been wrecked mote. They seemed even remoter made up its mind to cross the road. A by the Hun. Before long the big guns when on the first morning at the dumps and fifty shell holes. As I was count- and there. Montgomery looked at me their shells again began to level Ypres, old McConnell. A steel fragment went ing the holes, a heavy bang nearby and I looked at him, and I guess both for which they seemed to hold hatred. through his head. Poor Montgomery Shortly after that I had some trouble was severely wounded in the side and with the commanding officer, with the though he recovered he was never fit

Three days later a Hun plane bomb-I waited at the screen until it was leg blown off, a stove punctured by in the mud it is anything but that. It the two did their work, killing five was taking it around a corner the must have been a happy home when it likely to break your neck, and when the plane and wished that I could get Huns cut loose and caused me to go still had all of its three stories and the you go slow everybody grumbles. In at it for a few minutes. The anti-air-

While in this sector, I saw lots of when I received so forceful a punch in the roof and ceiling had been blown off very thing to keep you going day and Although I could hardly believe all the

clouded and made the devastated coun-But you aren't supposed to think in try look all the more lonesome. Al-

Ypres in the Canadian salient to get was one of the treasures of the mess On my return to the base I was placed their language and customs I felt quite under arrest. In the morning a ser- at ease with them.

In response to my knock at the door,

a sister appeared. She asked me to come in and sent for one of the fathers. He was a white-haired old man and dressed in a long black robe with a heavy leather belt around his waist. LONG ABOUT THE FIRST O' JUNE. A large crucius was suspended from his reck.

We began to talk of the war and he told me of a lot of horrors he had seen --ot an aren murdered by the Germans when they came to Belgium, of Then to stretch me where the sunshine women outraged, and priests tortured for beiping the Belgian soldiers. Then he work me to see the little convent the tree I saw sights which still Lying there an' just a dreaming An' forgetting pain an' care, Mindful only of the sweetness That's about me everywhere.

nine attle boys were kneeling. Lookis at them I found that not one of Just a lazying with nature is at them I found that not one of Till with her I feel in tune, thean had his right hand. All were un- Seems to me almost like Heaven the twelve years old and the youngest was four. I'me little chap kept his rent arm behind his back. It made ts es blood run cold in my veins and t thought of the children at home. I wanted some sort of revenge on the Huns.

One of the women in the chapel, the tather told me, spent most of her time raying. Her little son had been killed and her daughter, a girl of seventeen years of age, had been taken away by the Huns.

Later I met many rothers to whom the same thing had lappened. I also saw some women whose breasts and ears had been car off They had been tortured is the most cruel ways imaginable. When takin; leave of the old tather, I we bim an the money I had on me, arty francs, for which he thanked me. He also presented me with a tile medal of the Virgin Mary and me sed me.

I was away with a heavy heart. The aad given me a similar medal also my sister. An old priest ed to labor in the little Indian no set on the Saccee Reservation, back that?" denie in Canada, had also given me t had four of them, now, and carmar them strung together with a safeo on, safely stowed away in my aures et

oc arriving in camp I was greeted or the sergeant-major with a torrent or bad language, and the order that I proceed immediately with my convoy to S. with the seven loads of ammunition that I was to unload and then recure to the railbead. S was a little place about a mile behind our first line and known for the big shells the Huns used to put into it in their effort to blow up the ammunition dump

I had been shelled there on a previous occasion and had just turned into the aump, where the mud was hub deep, when the shells started to fall On one side of the road was a shed where the working parties detailed to help unload ammunition were sheltered pocket and figure on paying for the from the weather. The first shell to day tell into this shed, killing fourteen in the oyster.-Illinois Siren. of the men. I blew me whistle as a signal for my men to take to cover. stayed there for two hours, with a body who has a phone. shell coming every five minutes, which gave us ample time to work our way into the ditch along the main road. While the body of the lorries gave us been in power for about two weeks. some protection, there is no telling what would have happened had one of the German shells hit a lorry loaded with aromunition or the depot itself. As luck would have it, however, the shells fell everywhere but in the dump, so we thanked our stars, and when the bombardment was over unloaded the vehicles in record time. We had lost some time and went to the railhead at the commanding officer wanted me.

#### (Continued next week).

## "By the Way"

## 

When the days get kinder lazy 'Long about the first o' June, An' the sky an' earth an' flowers An' the birds all get in tune.

Sort o' sprinkles thru the leaves, An' the grass is soft an' fragrant Neath the gnarled old apple trees.

'Long about the first o' June.

NOT HIS FAULT.



The man who drops into the ruck And makes a sorry mess of life, he's unmarried blames his luck, And if he's married blames his wife.

#### HAD HIS LESSON.

Jim had been taking a correspondence course in "How to Appear in Sony; added to my collection. My ciety;" calling upon a young lady for the first time he amazed her by asking carelessly as he shook her hand:

"How's your mother and things like

#### BETTER GET THEM OUT AGAIN.

The cold, cold days of winter have passed, and in their stead we have the fragrant breath of spring; not far away we scent the full-blown beauty of the summer; after that the autumn, with its gifts of grain and fruits; and then ---well, what do you know about that? Here's winter again.

#### HORRORS OF WAR.

Two thousand half women, in Sunday patriotic parade. From a headline in a Detroit paper.

#### A NEW DEFINITION.

"What's an optimist?"

"An optimist is a person who'll go into a restaurant without a cent in his meal with the pearl he hopes to find

When a girl gets a job in a tele-This they did by leaving their seats phone exchange, she must expect to be and getting under the lorries. We treated as one of the family by every-

> Russia acts a good deal like a ladies' aid society in which the minority has

#### ALL ABOUT GUEST TOWELS.

The guest towel is a wash rag with nineteen cents' worth of embroidery on each end of it. There are between two and three billion guest towels in the United States. Practically all of them will be found in the bottom drawer of the old oak dresser in the spare room good speed, where I was informed that until your wife cleans house. After that they will be found some place else. Next Christmas they will be distributed by parcel post and other guest towels will come in to take their place. "Farmers are sometimes the last to duest should be used with as heat up; but they stay hot; and in a long fight they are always found sturdily carrying the battle across No Man's Land to the foe, in the last grim strugger."—Herbert Quick.

Guest towels should be used with as much discretion and as little friction as it humanly possible. They mean well, but they should not be taken seriously, if at all.—H. W. D.



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## What Became of the Pony Express

By WILLIAM F. PURDUE

Pony Express was short but eventful. west of the Missouri in those days. Undoubtedly it hastened, indirectly, deserts and along narrow mountain Washoe Silver Mines, Placerville and continent, east and west. trails, with hostile Indians and murder- Sacramento, thence to San Francisco," ous bandits infesting almost the entire and the time was announced as ten leather pouch which fitted closely route, appealed to the romantic in-days. The first express left St. Joseph down on the saddle, with slits made to stincts of the people of the east. they at six-thirty in the afternoon of April fit over the horn and tree of the sadto the need of transcontinental tele- at one o'clock in the forenoon, April 14. contained four pockets, two on each graph and railroad lines; and their construction was not long delayed. At that time the vast resources of the western half of the United States were only faintly perceived. The gold fields of California were the only lure to draw people of the east to the far west. But the mining industry soon assumed such large proportions that the demand for rapid mail and freight transit became urgent, and that demand increased month by month, as California's business interests expanded. The Pony Express was one of the

many incidental steps in the progress or rapid news communication and financial exchange between California and the east. Gold was discovered in California on January 19, 1848, and that event caused the migration of tens of thousands to the Pacific Coast. But communication was slow, both for the mails and freight. A Pacific railroad was merely a dream of the future, as was a transcontinental telegraph line. In the later fifties there were three then western frontier to California. The time was twenty-five days, though a record run of twenty-one days was made. The fare was one hundred dollars, gold, and letters were carried for ten cents per half-ounce. However, the mails and the bulk of the freight No war is won by cannon fire alone; business was done across the Isthmus The soldier bears the grim and of Panama-by steamer from New York to Aspinwall, now renamed Colon, thence by the Panama Railroad, opened in 1855, to Panama, and thence by steamer to San Francisco. The best time by this route for the mails was twenty-two days.

The Pony Express was purely a private enterprise. Virtually no aid was extended to the line by the government, except the issue of government revolvers and cartridges to the riders. In 1855 Senator Gwin, of California, had introduced a bill in congress providing for the payment of a subsidy of not to exceed five thousand dollars a round trip for a weekly mail service Gwin then appealed to a freighting freight wagons between St. Joseph. Missouri, and Sacramento, California. dependent proposition. The firm finally consented and, in 1859, began to

The freighting firm hoped that, if they would demonstrate the feasibility of steady communication, summer and winter, on a schedule shorter than the twenty-two days via Panama, a contract could be obtained from the government for handling virtually all of No war is won by cannon fire alone. the transcontinental letter mail. Fast eration. The letter express plan, as it was carried out, contemplated a mail line on horseback between St. Joseph Will you not help to hold our battle exictence. It had cost more than sev-and Sacramento, a distance of nineteen line, en hundred thousand dollars, while the hundred and fifty miles. At the latter city the mail was transferred to a wait- In ing steamer and thence taken as speed-

NE of the most interesting chap- ily as possible to San Francisco, which miles. An average speed of eighteen long the land of romance and ad- This service was called the "Pony Ex- acted from the horses. No time was

the eastern termini of the telegraph rider's legs. The letters were wrapped lines from San Francisco. There was in silk water-proof material to protect the telegraph flashed a summary of they badly damaged: general news, only nine days old, instead of twenty-two days, the shortest twenty pounds; but that weight was mento the whole city turned out with each ounce, or fraction thereof, the bands and cannon to greet the rider. rate at first by the Pony Express was liver the mail for that city; then the sequence, letters were written on thin, carrier was hustled on board a waiting tough paper, so as not to exceed the steamer and hurried to San Francisco. half-ounce limit. Large sums of mon-A huge procession of citizens, with the ey were carried, but always in the fire department, greeted the messenger form of drafts or bank notes. Certain at the wharf and escorted him to the eastern newspapers got out special isend of his journey.

stations twenty-five miles apart, the else, for few people were able to pay rider to go the twenty-five miles on one from ten to twenty dollars postage on horse. But the exigencies of the ser- a single newspaper. After a few vice soon led to changes, due to the months the rate of postage was reduccharacter of the country. The distances ed to one dollar per half ounce. between stations were shortened so freighting and stage lines from the that each rider, who had about one who could be depended upon to act hundred miles to cover, was supplied quickly in emergencies were employed

#### TO THE MEN AT HOME.

dreary role; He dies to serve the Flag that he has

great.

known;
His duty is to gain the distant goal, but if the toiler in his homeland fair Falter in faith and shrink from every

It he be not on duty ever, there, Lost to the cause is every soldier's best.

The men at home, the toiler in the

The keen-eyed watcher on the spin-Hear no command to vault the trench's

Her glory you shall help to make or those days.

of soil, You are the man your country sorely needs!

is shown, right.

ters in any history of the west, was the business terminus of the state. miles an hour for the ten miles was exventure, is that devoted to the story of press," in popular parlance—for a lost at the relay stations. When a rid-the "Pony Express." The life of the horse was called a "pony" anywhere er drew up at a station a fresh horse, saddled and bridled, was waiting. He The route was announced to pass lifted his mail saddlebags to the secthe development of the entire west. from St. Joseph "through Forts Kear- ond horse, mounted and started off, not While the stories of fearless young ney, Laramie and Bridger, Salt Lake more than a minute being lost in the men riding madly across plains and City, Camp Floyd, Carson City, the transfer. And so it went across the

The mail was carried in a peculiar also called attention in a graphic way 3, 1860, and arrived in San Francisco dles, which were all alike. The pouch At Placerville and Carson City were side, one in front and one behind the wild excitement in the latter city when them in fording streams, but often

> The mail carried was limited to possible time by the Panama route, up rarely reached. Instead of the present to that time the quickest. At Sacra- letter postage rate of three cents for The only time lost was enough to de- five dollars per half ounce. As a consues on tissue paper-but these were The original plan was to have the more to show enterprise than anything

> Only wiry and fearless young men with a fresh mount every ten or twelve as Pony Express riders. On nearly every trip they "carried their lives in their hands." The greater part of the route was infested with murderous bandits, or "road agents," as they were commonly called. But the mails must go through safely at all hazards. While the riders had instructions not to expose themselves needlessly to danger, and often made wide detours from the regular trails in order to avoid bandits who sought to ambush them, many violent encounters occurred every week. Besides, there were numerous uprisings of the Indians, and many massacres occurred. For the one rider who escaped with his life, there were a dozen who fell before the bandits and Indians.

The shortest time ever made by the They know not what it is to die or Pony Express was in the delivery of kill,
And yet they must be brave and condress. Special arrangements were stant, too,
Upon them lies their precious coun. made for this; extra ponies were at between St. Louis and San Francisco.

But congress seemed to think it a wild scheme, so nothing was done. Senator

Try's fate;

They also serve the Flag as soldiers do, scheme, so nothing was done. Senator

Tis theirs to make a nation's army enh to Sacramento were covered in eph to Sacramento were covered in seven days and nineteen hours-and firm, which was running a line of You hold your country's honor in your that was considered very fast time in

The life of the Pony Express was to undertake a letter express as an in- For they, who now her uniform must about sixteen months. It began on April, 1860, with a weekly service. From Can be no braver soldiers than you June 10, of the same year, a semimake extensive preparations for the launching of the new service.

are. day to day, in big and little cost of maintaining the line was enormal deeds, At bench, or lathe or desk or stretch mous. For instance, twenty-five cents a pound was paid for all grain used in Utah and Nevada; and each animal Will you not give to her your finest consumed daily from ten to fifteen toil?

But the ponies must be fed pounds. But the ponies must be fed and housed with the greatest of care, The men at home must also share for their mettle must never fail the test to which it was not when the test to which it was put. When the time was, therefore, the prime consid- By what they are a nation's strength first telegraph line across the conti-The army but reflects their love of nent was completed, on October 24. 1861, the Pony Express passed out of Will you not give the fullest of your total receipts were less than five hunen hundred thousand dollars, while the powers, a sacrifice and service that is fine, dred thousand, leaving a net loss of That victory shall speedily be ours? over two hundred thousand dollars.



# Spies and Lies

German agents are everywhere, eager to gather scraps of news about our men, our ships, our munitions. It is still possible to get such information through to Germany, where thousands of these fragments—often individually harmless—are patiently pieced together into a whole which spells death to American soldiers and danger to American homes.

But while the enemy is most industrious in trying to collect information, and his systems elaborate, he is not superhuman—indeed he is often very stupid, and would fail to get what he wants were it not deliberately handed to him by the carelessness of loyal Americans.

Do not discuss in public, or with strangers, any news of troop and transport movements, or bits of gossip as to our military preparations, which come into your possession.

Do not permit your friends in service to tell you—or write you—"inside" facts about where they are, what they are doing and seeing.

Do not become a tool of the Hun by passing on the malicious, disheartening rumors which he so eagerly sows. Remember he asks no better service than to have you spread his lies of disasters to our soldiers and sailors, gross scandals in the Red Cross, cruelties, neglect and wholesale executions in our camps, drunkenness and vice in the Expeditionary Force, and other tales certain to disturb American patriots and to bring anxiety and grief to American parents.

And do not wait until you catch someone putting a bomb under a factory. Report the man who spreads pessimistic stories, divulges—or seeks—confidential military information, cries for peace, or belittles our efforts to win the war.

Send the names of such persons, even if they are in uniform, to the Department of Justice, Washington. Give all the details you can, with names of witnesses if possible—show the Hun that we can beat him at his own game of collecting scattered information and putting it to work. The fact that you made the report will not become public.

You are in contact with the enemy today, just as truly as if you faced him across No Man's Land. In your hands are two powerful weapons with which to meet him—discretion and vigilance. Use them.

#### COMMITTEE ON PUBLIC INFORMATION

8 JACKSON PLACE, WASHINGTON, D.C.

George Creel, Chairman The Secretary of State The Secretary of War The Secretary of the Navy

Contributed through Division of Advertising



United States Gov't Comm. on Public Information

This space contributed for the Winning of the War by
THE PUBLISHERS OF "THE MICHIGAN FARMER"

682 - 14

## What Became of the Pony Express

By WILLIAM F. PURDUE



INTENTIONAL SECOND EXPOSURE

A LETTER to Nichols & Shepard Company, of Battle Creek, Michigan, will bring to you the experience of seventy years of success in the making of threshing machinery exclusively-success that is of value to you.

Grain threshing is a game where no manufacturer can fool with side lines, and at the same time build a machine that is always on top. Nichols and Shepard Company has confined its efforts and resources to threshing machinery alone, longer than any other manufacturer in the world. The result is that the Red River Special, with its "Man Behind the Gun," the Beating Shakers and the Big Cylinder, stands at the very top of the list as a grain thresher.

#### It Saves the Farmers' Thresh Bill

Write us for information about the "Junior" if you want a machine for your own use. Write for circulars.

## Nichols & Shepard Co.

In Continuous Business Since 1848 Builders exclusively of Red River Spe-cial Threshers, Wind Stackers, Feeders,

Battle Creek Michigan only faintly perceived. The gold fields the telegraph flashed a summary of they badly damaged. of California were the only lure to general news, only nine days old, in- The mail carried was limited to draw people of the east to the far stead of twenty-two days, the shortest twenty pounds; but that weight was west. But the mining industry soon asdemand for rapid mail and freight transit became urgent, and that demand increased month by month, as California's business interests expanded.

The Pony Express was one of the many incidental steps in the progress or rapid news communication and financial exchange between California California on January 19, 1848, and that event caused the migration of tens of thousands to the Pacific Coast. But communication was slow, both for the mails and freight. A Pacific railroad was merely a dream of the future, as was a transcontinental telegraph line. In the later fifties there were three freighting and stage lines from the then western frontier to California. The time was twenty-five days, though a record run of twenty-one days was made. The fare was one hundred dollars, gold, and letters were carried for ten cents per nalf-ounce. However, the mails and the bulk of the freight No war is won by cannon fire alone; business was done across the Isthmus of Panama-by steamer from New York to Aspinwall, now renamed Colon, thence by the Panama Railroad, by steamer to San Francisco. The

The Pony Express was purely a priextended to the line by the government, except the issue of government revolvers and cartridges to the riders. In 1855 Senator Gwin, of California, had introduced a bill in congress providing for the payment of a subsidy of not to exceed five thousand dollars a And yet they must be brave and conround trip for a weekly mail service Gwin then appealed to a freighting firm, which was running a line of You hold your country's honor in your that was considered very fast time in those days. Missouri, and Sacramento, California. pendent proposition. The firm finalconsented and, in 1859, began to launching of the new service.

The freighting firm hoped that, if they would demonstrate the feasibility of steady communication, summer and winter, on a schedule shorter that the twenty-two days via Panama, a contract could be obtained from the government for handling virtually all of the transcontinental letter mail. Fast time was, therefore, the prime consideration. The letter express plan, as it was carried out, contemplated a mail line on horseback between St. Joseph Will you not help to hold our battle exictence. It had cost more than sevand Sacramento, a distance of nineteen hundred and fifty miles. At the latter city the mail was transferred to a wait- In ing steamer and thence taken as speed-

deserts and along narrow mountain Washoe Silver Mines, Placerville and continent, east and west. trails, with hostile Indians and murder- Sacramento, thence to San Francisco,"

possible time by the Panama route, up rarely reached. Instead of the present sumed such large proportions that the to that time the quickest. At Sacra-letter postage rate of three cents for mento the whole city turned out with each ounce, or fraction thereof, the bands and cannon to greet the rider, rate at first by the Pony Express was The only time lost was enough to de-five dollars per half ounce. As a conliver the mail for that city; then the sequence, letters were written on thin. carrier was hustled on board a waiting tough paper, so as not to exceed the steamer and hurried to San Francisco, half-ounce limit. Large sums of mon-A huge procession of citizens, with the ey were carried, but always in the fire department, greeted the messenger form of drafts or bank notes. Certain and the east. Gold was discovered in at the wharf and escorted him to the eastern newspapers get out special isend of his journey.

stations twenty-five miles apart, the else, for few people were able to pay rider to go the twenty-five miles on one from ten to twenty dollars postage on horse. But the exigencies of the ser- a single newspaper. After a few vice soon led to changes, due to the months the rate of postage was reduccharacter of the country. The distances ed to one dollar per half ounce. between stations were shortened so. Only wiry and fearless young men that each rider, who had about one who could be depended upon to act hundred miles to cover, was supplied quickly in emergencies were employed with a fresh mount every ten or twelve as Pony Express riders. On nearly ev-

NE of the most interesting chap- ily as possible to San Francisco, which miles. An average speed of eighteen ters in any history of the west, was the business terminus of the state. miles an hour for the ten miles was exlong the land of romance and ad- This service was called the "Pony Ex- acted from the horses. No time was venture, is that devoted to the story of press," in popular parlance—for a lost at the relay stations. When a ridthe "Pony Express." The life of the horse was called a "pony" anywhere er drew up at a station a fresh horse, Pony Express was short but eventful. West of the Missouri in those days. saddled and bridled, was waiting. He Undoubtedly it hastened, indirectly, The route was announced to pass lifted his mail saddlebags to the secthe development of the entire west, from St. Joseph "through Forts Kear- and horse, mounted and started off, not While the stories of fearless young ney, Laramie and Bridger, Salt Lake more than a minute being lost in the men riding madly across plains and City, Camp Floyd, Carson City, the transfer. And so it went across the

The mail was carried in a peculiar ous bandits infesting almost the entire and the time was announced as ten leather pouch which fitted closely route, appealed to the romantic in- days. The first express left St. Joseph down on the saddle, with slits made to stincts of the people of the east, they at six-thirty in the afternoon of April fit over the horn and tree of the sadalso called attention in a graphic way 3, 1860, and arrived in San Francisco dles, which were all alike. The pouch to the need of transcontinental tele- at one o'clock in the forenoon, April 14. contained four pockets, two on each graph and railroad lines; and their At Placerville and Carson City were side, one in front and one behind the construction was not long delayed. At the eastern termini of the telegraph rider's legs. The letters were wrapped that time the vast resources of the lines from San Francisco. There was in silk water-proof material to protect western half of the United States were wild excitement in the latter city when them in fording streams, but often

> sues on tissue paper-but these were The original plan was to have the more to show enterprise than anything

ery trip they "carried their lives in their hands." The greater part of the route was intested with murderous bandits, or "road agents," as they were commonly called. But the mails must go through safely at all hazards. While the riders had instructions not to expose themselves needlessly to danger, on, thence by the Panama Railroad, opened in 1855, to Panama, and thence by steamer to San Francisco. The Falter in faith and shrink from every discontinuous forms of the first the toiler in his homeland fair regular trails in order to avoid banding the falter in faith and shrink from every discontinuous forms. dits who sought to ambush them, many best time by this route for the mails It he be not on duty ever, there, will the be not on duty ever, there, week. Besides, there were numerous uprisings of the Indians, and many vate enterprise. Virtually no aid was The men at home, the toiler in the massacres occurred. For the one rider who escaped with his life, there were The keen-eyed watcher on the spin- a dozen who fell before the bandits

The shortest time ever made by the know not what it is to die or Pony Express was in the delivery of President Lincoln's first inaugural address. Special arrangements were stant, too, Upon them lies their precious coun- made for this; extra ponies were at between St. Louis and San Francisco.

But congress seemed to think it a wild

They also serve the Flag as soldiers do.

"Tis theirs to make a nation's army"

They also serve the Flag as soldiers do.

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They also serve the Flag as soldiers do.

"Tis their them It to the flag as soldiers do."

They also serve the Flag as soldiers do.

T seven days and nineteen hours-and

The life of the Pony Express was about sixteen months. It began on April, 1860, with a weekly service. From Can be no braver soldiers than you June 10, of the same year, a semi-From day to day, in big and little weekly service was maintained. The cost of maintaining the line was enor-At bench, or lathe or desk or stretch mous. For instance, twenty-five cents a pound was paid for all grain used in Utah and Nevada: and each animal Will you not give to her your finest consumed daily from ten to fifteen toil? pounds. But the ponies must be fed No war is won by cannon fire alone.

The men at home must also share the fight,
By what they are a nation's strength

The men at home must also share for their mettle must never fail the test to which it was put. When the first telegraph line across the continent was completed, on October 24, 1861, the Pony Express passed out of line,
Will you not give the fullest of your en hundred thousand dollars, while the total receipts were less than five hunpowers, sacrifice and service that is fine, dred thousand, leaving a net loss of

#### HE BEST LINIMENT OR PAIN KILLER FOR THE HUMAN BODY

## Gombault's Balsam

IT HAS NO EQUAL

For the Human & Body ho equi

We would say to all who buy it that it does not contain a particle of poisonous substance can result from its ex ternal use. Persistent thorough use will our

and Reliable Remedy Sore Throat Chest Cold Backache Neuralgia Sprains Strains Lumbago Diphtheria Sore Lungs Rheumatism and all Stiff Joints

Perfectly Safe

REMOVES THE SORENESS-STRENGTHENS MUSCLES ne lettle Caustic Balsam di ne good than \$170.00 poid i 91.50 per bettle. Sold b he LAWRENCE-WILLIAMS COMPANY, Cleveland, O.



When writing to advertisers please mention The Michigan Farmer.

### TO THE MEN AT HOME.

soldier bears the grim and dreary role;

He dies to serve the Flag that he has known;

ning drill Hear no command to vault the trench's and Indians. top:

kill.

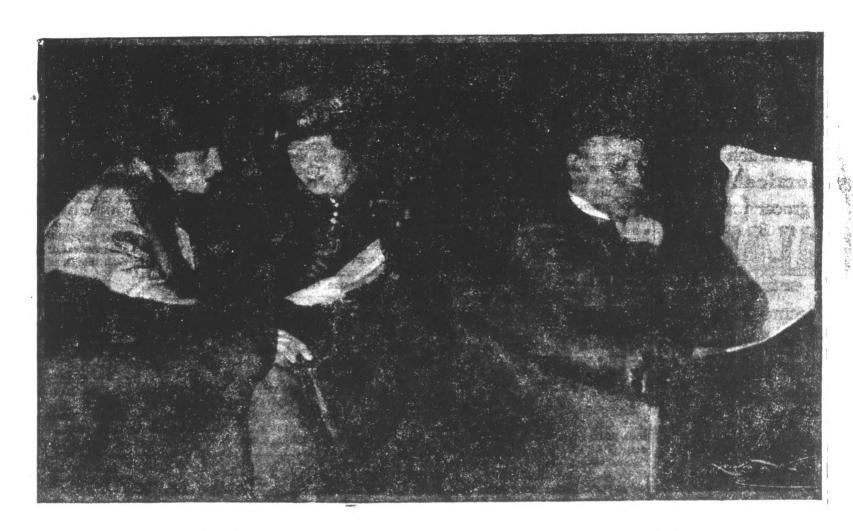
Her glory you shall help to make or those days.

they, who now her uniform must M. Call.

of soil You are the man your country sorely needs!

The army but reflects their love of right.

That victory shall speedily be ours? over two hundred thousand dollars.



# Spies and Lies

German agents are everywhere, eager to gather scraps of news about our men, our ships, our munitions. It is still possible to get such information through to Germany, where thousands of these fragments—often individually humless—are patiently pieced together into a whole which spells death to American soldiers and danger to American homes.

But while the enemy is most industrious in trying to collect information, and his systems elaborate, he is not superhuman—indeed he is often very stupid, and would fail to get what he wants were it not deliberately handed to him by the carelessness of Loyal Americans.

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Do not permit your friends in service to tell you—or write you—"inside" facts about where they are, what they are doing and seeing

Do not become a tool of the Hun by passing on the malicious, disheartening rumors which he so eigerly sows. Remember he asks no better service than to have you spread his lies of disasters to our soldiers and sailors, gross scandals in the Red Cross, cruebies, neglect and wholesale executions in our camps, drunkenness and vice in the Expeditionary Force, and other tales certain to disrurb American parents.

And do no was until you can't someone priving abomb under a factory. Report the mint who spreads pressured stones, divutges—or seeks—confidential military information of our party, or belied so as offers to win the way.

Send the name, of set h presons, even a they are maine form, to the Department of justice, Washington - Give all the details you can, with names of winnesses it possible—show the Hun that we can best him at his own game of collecting scarceed information and putting it to work. The fact that you made the report will not become public.

You are in Course with the enemy today, just as truly as if you facet him across. No Man's Land. In your hands are two powerful weights with which to meet him—discretion and vigilings. Use them

#### COMMITTEE ON PUBLIC INFORMATION

8 JACKSON PLACE, WASHINGTON, D. C.

Change Credy Chareman The Secretary of Star-The Secretary of the Ar-The Secretary of the Ar-

Converbured through Division of Advertising



"nited States Goo't Comm. on Public Information

This space contributed for the Winning of the War by
THE PUBLISHERS OF "THE MICHIGAN FARMER"

Give full consideration to the quality of your tea-not only on account of flavour but also because good! tea is so much more economical. Ask your grocer for

and secure the finest freshest young teal that is packed. It takes less than half? the quantity to make an infusion than does ordinary low-priced tea.









## New Meaning to

trite. But it is said with such a vari- "What can I get for myself?" ety of meanings that it still has much capable of looking at life in the old light-hearted way.

Those of us who have no one to give are thinking, too, that life can never be the same. And many of us are hopare hoping that never again can we go back to the old way of living for our- peared, and the latest offering of selves alone.

chance to do for our brother, or a chance to grasp for ourselves? Most of us were concerned solely with the A Dress for Work one thought, to possess material things. To own property, to have a finely furnished house, to wear expensive clothes and jewelry, to have our children just a bit more finely clad than our neighbors, to have a well-spread table, to see the latest shows and movies, to own an automobile, in short to satisfy the purely animal side of our natures-this was life to the average American until we found ourselves plunged into the world struggle.

Then very slowly we began to awaken. There were calls for our money for the Red Cross, for Liberty Bonds, for starving allies, for the Y. M. C. A. We gave, some freely, some grudgingly, some because it "was the thing to do," but we gave. Then we began to be asked very politely by a man named Hoover to abstain from certain foods. Some of us did this because we were beginning to see that the fuss in Europe really concerned us quite deeply, others fell in line because everyone was taking it up, and a few absolutely refused to go without anything they could buy and pay for. They maintained stoutly that all they got in this world was what they ate, and they intended to have their three square meals a day.

A little later the man named Hoover, backed up by Uncle Sam, ceased to ask politely. He issued a set of "Thou Shalts" and "Thou Shalt Nots," and those who had early fallen in step and found that they were still enjoying good health, smiled to see the laggards floundering about. Calls for money, quent. Casualty lists from "over ed for before the needs of stay-ated and missing, and comfortable homes has been designed. ed of secondary importance to us.

have always been, the things of the the front, forming a smart vestee ef- into a well-baked crust made with rice. sole thought of gratifying ourselves, tons.

the war," has been said so often with thousands who before had lived ey is plentiful, regardless of the presby so many people in so many solely for self. "What can I do to ence or absence of love. May girls be languages that it has become almost help?" became the thought instead of taught instead that service is more to

interest. To the mother who has lost never again can be the same—that idling. a son, the woman who has lost a hus- never again can we go back to the old band, it means but one thing, that life idea that material things are of su- the war. But the greatest of all is that without the loved one will never be preme importance. Let us hope that "life is more than meat and the body the same. That the sorrow and grief never again will daughters be taught than raiment." they have borne will leave them in- that the supreme thing is to have a

IFE can never be the same after that became the compelling motive home where children are few and monbe desired than ease and physical la-In that sense let us hope that life bor is more ennobling than gossip and

We are learning many lessons from

DEBORAH.

## nusual Pies Unusually Good

ing quite sincerely that it can't. We American pie, now the bottom crust the duration of the war. as known to our mothers has disap-Yankee ingenuity" is rice pie crust. boiled rice, bringing the rice well over

or Play

War long ago uncovered the sacred first camoufleur-woman, is good for

Rice Pie Crust. Line a greased pie pan with cold

Just what did life mean to us a year Rice has a natural affinity for the the edge of the pan and shaping it with ago? Or, for the matter of that, what things that usually constitute pie fill- a spoon dipped in milk. Bake the crust does it mean to some of us still? A ings, and this new camouflage from the in a moderate oven until it is slightly brown. Use the crust like any pastry for a one-crust pie. Buttermilk Pie.

1 cup buttermilk,

2 tablespoons corn starch, mixed with

4 tablespoons cold water,

34 cup maple syrup,

2 egg yolks, beaten,

1 lemon, juice and grated rind,

1 tablespoon melted butter.

Heat the milk in a double boiler. When it is warm, add the corn starch mixed with cold water. Cook mixture until it is thick, and add the other ingredients. Cook the mixture until it is clear. Turn it into a baked crust made with rice, cover it with meringue, and bake it in a slow oven for twenty-five minutes.

Meringue.

Whites of two eggs, 1/4 teaspoonful vanilla, 4 tablespoons maple syrup,

Beat the egg whites until they are stiff, add the syrup gradually, and then the vanilla.

Cottage Cheese Pie.

1 cup cottage cheese, ½ cup maple syrup,

% cup milk,

Yolks of two eggs, beaten, 2 tablespoons melted butter,

Salt. ½ teaspoon vanilla.

Mix the ingredients in the order given. Bake the pie in one crust made of Cool it slightly, cover it with meringue, and brown it in a slow oven.

Lemon Cheese Pie.

1 cup cottage cheese, % cup honey or % cup corn syrup,

Yolk of 1 egg, beaten,

% cup milk, 2 tablespoons butter,

2 tablespoons corn starch,

Juice and grated rind of one

lemon.

the thing of greatest importance. To and tied in a loose knot at the front. Sal soda softens hard water and do something for someone else, for Close fitting one-seam sleeves are fin- when used in soft water helps remove Sal soda softens hard water and humanity, instead of to live with the ished with a row of white pearl but dirt so that less soap is needed .-Mrs. E. S. T.



Wool must be conserved for our soltoo, became more insistent and fre- diers and sailors, who must be providthere" began to mean more to Ameri- homes can be considered. To save can homes than just a set of names. wool and at the same time permit our Our boys were among the dead, wound- women to be well dressed, this frock

and pleasure seeking all at once seem- It is of Japanese cotton crepe, cut Heat the milk, add the sweetening in a comfortable one-piece style. The and the corn starch, and cook mixture Life became real to us. Something front is finished in a jaunty blouse ef- until it is thick, stirring it constantly. more than days to be put through in fect, with pointed lapels and four large Then add the egg, and cook the mixseeking our own ease and pleasure, pearl buttons. A military collar of ture until the egg thickens. Add the We suddenly awoke to the fact that white cotton crepe drapes gracefully cheese, the butter, the juice and the the really vital things are now, as they over the shoulders and extends down rind of the lemon. Pour the mixture spirit. That to go without luxuries in fect which closes with small pearl but. Cover it with meringue, and brown it food and clothing so that we might tons. The girdle crosses in the back, in a slow oven. give to the great cause of freedom was and the long ties are brought around

Special

Offer

Below

#### SUGAR SUPPLIES FOR HOME CAN-NERS.

The Food Administration has adopted a certificate system to meet the household needs for sugar during the coming fruit season, and to guard against temporary shortages that may occur if more vessels are diverted from the Cuban trade. The consumer is asked to estimate his needs and fill out a certificate which will be furnished him by his grocer. The dealer is required to forward this certificate to the Federal Food Administrator within one week after it is turned in to him.

#### CLEANING FLOOR COVERINGS.

BY MRS. C. GALLIHER.

The housewife does not always feel financially able to replace the old rug or carpet with a new one, and yet there is nothing that mars the appearance of a room more than a soiled or faded floor covering. So in order that housecleaning may be complete, quite a little thought and time must be given to

For those who have vacuum cleaners the removing of the dust from carpets, rugs, etc., is a very small job, but not every one has vacuumu cleaners. So other methods must be relied on, for it is important that all dust be removed before any cleaning agent is used. A very satisfactory method of dusting small rugs, is to lay them right side down on the bed springs, and when they are beaten the dirt will fall out upon the ground.

For cleaning soiled carpets or rugs a good solution is made the following way: Shave one-half pound of soap in one quart of water and boil until dissolved. Add one ounce of salts of tartar and one gallon of hot water and mix thoroughly. If there is much green in the carpet add one cup of vinegar, to preserve the color. To apply, use a stiff brush, scrubbing the carpet briskly, doing a small portion and then wiping with a woolen cloth wrung out of cold water. The easiest and best way to clean a carpet by this method, is to use the solution after the carpet has been again placed on the floor. However, it should be done on a warm, sunshiny day, when doors and windows can remain open that the carpet may quickly dry. All soiled rugs are very effectively cleaned by this method.

To freshen rugs or carpets, wipe them with a cloth wrung out of warm water, ammonia and kerosene. Use one tablespoon of kerosene, one teaspoon of ammonia to one gallon of warm water.

The most satisfactory method of cleaning matting is to cover the broom with a soft cloth and dip it into a saline solution before sweeping. A good proportion to use is one-half cup of salt to a medium-sized pail of water. Matting should never be swept with an uncovered broom, because its fibre is apt to be cut by the stronger splints.

#### FOR THE HOME SEAMSTRESS.

A bulletin which every woman who does any sewing should possess is issued by the Missouri College of Agriwhen the Missouri College of Agriultra skirt measures two yards at the foot. Price 10c.
No. 2482—Ladies' Shirt Waist. Cut in seven sizes, 34, 36, 38, 40, 42, 44 and 46 inches bust measure. Size 38 requires 2% yards of 36-inch material. culture, located at Columbia, Missouri. "Principles of Sewing," by Mary E. Robinson contains practical advice on all the problems which confront the home dressmaker. There are directions for making a dress-form at home at a cost of less than four dollars, instructions for using commercial patterns, methods of measuring, cutting, the various sorts of stitches and when they should be used, plackets, patches, darns, and decorations. If sewing is your greatest bugbear write the Agricultural Extension Service Department, College of Agriculture, Columbia, Mo., for this helpful bulletin.

Week by week, because of various hindrances, we have sent overseas less than the needed quotas of wheat, and have eaten into our reserve stock at home. There is no leeway now.

## Where Will I Get Enough Help

The scarcest thing on the farm this year is help—good, dependable help that knows what's what. City boys and girls, who are offering to work in some sections, can do the light chores, but can't take the place of trained workers who have left the farm.

Uncle Sam knows this and has planned furloughs for farm-trained soldiers in camp. Full details of how you go about getting such helpers are in June Farm Journal.

No bigger service is being given American farmers today than The Farm Journal's articles on farm labor, the draft regulations and the furlough possibilities. Every farmer needs just what The Farm Journal is printing every month.



Tractorsthe Farm Artillery How one group of farmers financed and

handled tractor operation.

MICHIGAN FARMER PATTERNS.

Any of the patterns illustrated may

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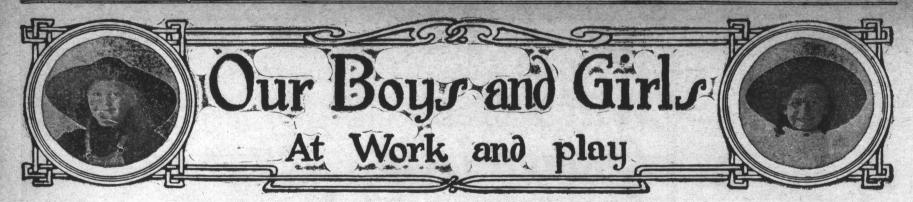
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## A Leading Guernsey Community It is now the plan of these Junior

By G. O. STEWART

County Club Leader of Kent County

which have tried to organize and first in corn. their activities for war work and the thing that could be put into operation ganized effort. They realized that if built a rural community in which is it up. with reasonable certainty of success. farming was to be their life's work, However, we people here in Michigan they would have to familiarize themdo hear of many successful organized selves with live stock. So they called units or communities.



Allen Stauffer & Sons.

patriotism-but it is capable of educating a community to the point where it will act, and act effectively. This seems to be the one urgent need of scores of communities today.

#### A Boys' Club at Work.

Several years ago there was a group other member. of eight or ten boys at Caledonia who were anxious to try out some form of organized effort or group activity and start something new in their commu-They had heard of boys' and girls' club work, so they set out to see like all beginners, not very successful. But they went ahead and secured assistance from the county agricultural agent, and a club leader from the M. A. C. The first year they grew corn. They continued this for several years, using the best methods possible in caring for their crop and in the selection of seed. The people of the community began to realize shortly that these boys, only amateures, meant business. But not until the fall of 1916 did they discover what this club was going to mean to their community. At the county roundup that fall one of the boys received first prize in the corn project. He sent has been grown for years, has been an Nice Old King Cole and his fiddlers up that fall one of the boys received champion, Floyd Bergy. He was award- These boys do not wish to live in a Pickett class

corn, some beans and some potatoes. the dairy business for Caledonia. shape. At the county round-up last fall we not start out with such a vision and I'll shut them all in the picture book. ery American to do the same.

UNDREDS of rural communities Caledonia carried off their usual num- these boys are interesting themselves throughout the United States ber of prizes, taking first in potatoes in the standardization of the dairy bus-

a special meeting early in December Here is the story of one of our Kent and organized what is now called the county communities which has started "Caledonia Junior Guernsey Breeders' and carried out a plan that works. It Association." At first half of the boys can be applied, if properly adapted to wanted Jerseys and the others were local conditions, and local needs, with partial to Holsteins. Finally they comevery assurance that it will succeed. promised and decided that the Guern-There is no magic about it; it won't sey breed would be a good one to inmanufacture energy and enterprise and troduce. With the assistance of the local bank, the county agricultural agent, and several of the boys' fathers. eleven boys became the owners of good registered Guernsey calves. These were purchasd at Waukesha, Wisconsin, the leading Guernsey center in the United States. The Caledonia Bank advanced the money for the entire number and each boy signed a note for the payment of his calf.

The calves were shipped to Caledonia late in January just before the heavy snow. The boys drew numbers to see which calf they were to have. The calves averaged three to five months of age. Each boy saw to it that his calf had a good home and was given the best of food and care. The young stockmen think they each have the best calf and would not trade with any

#### The Community Vision.

The Caledonia Junior Guernsey Breeders' Association has a vision. It stands for big things, as one of the boys said, "We want a name that means something that will take us what could be done. At first they were somewhere." These boys have grown up in a community where live stock



President Hoyt Shisler.

his exhibit to the Michigan Agricultur- important part of the farming business the State Round-up that and yet during all this time winter, and it was from then on that been standardized or been developed

ed first place in the state and won the community in which there is no procup for the best ear of corn in the gress. They want to see the live stock industry grow big, standardized, and This gave the Caledonia Boys' Club mean something in the efficiency of But if, though I offered my very best, ed the trophy to grandfahter. "Now new life. Last year the boys wanted farming. They have a community vis- Not a one of these will come out and can I kill a grey squirrel?" was my trito do more farming and some grew ion, a part of which is to standardize

Although the weather conditions were They said, "Is there a Guernsey cenanything but favorable, the boys stuck ter in Michigan?" To this there was to their projects and finished in fine no reply. Then they further said, "Can

make Caledonia a Guernsey center?" Breeders to make Caledonia a little Guernsey center.

Already the fathers and mothers of



Bergy, on the Right, was State Corn Champion in 1916.

found standard live stock, standard crops, cooperative marketing, and thus a community which has solved the flicker could throw down the gauntlet problems that are ever before the farm-

#### EIGHTY COMMUNITIES HELP IN GARDEN WORK.

Some conception of the way in which the cities of the state have taken to the gardening idea can be gained from the report of the boys' and girls' club department of M. A. C. on developments in this field. At the present time the report brings out, there are eighty Michigan cities, towns and villages in which organized garden work is in progress, while the number of boys and girls who are assisting is now close to the 50,000 mark. The report tells only of the work in communities cooperating with the college and the United States Department of Agriculture and does not take into account a considerable number that are going ahead with gardening on their "own hook."

#### GUESTS.

BY L. M. THORNTON.

If Three Bears came to my house to-

I'd say Good Evening, and be polite Or wee Miss Muffit or Marjorie Daw
Or little Bo-Peep whom I never saw
Or Humpty Dumpty or Jack and Jill—
They could rest awhile ere they climbed the hill.
I'd like to open the door and see

er knife.

rest.

flight With Mother Goose on her broom

crook

## My Grey Squirrel

Y! how fingers ached, and how I shivered with the cold that morning! I had bagged red iness. They, too, are buying pure-bred squirrels, but no grey thus far. I had Even with all the success their club Guernseys. The fathers and mothers spent just one morning hunting for betterment of the nation after the war, had attained, the boys were not satis- in this community are catching the vis- greys, and obtained one shot, which I have failed for want of a practicable fied with what had been accomplished. ion of what their sons are aiming to- missed. Upon returning, my grandway to do it. What they needed was They were a little older now, had had wards. They are now giving them en- father, who dearly loved to tease me, an authentic receipt, proved by use, to a few years of valuable experience, and couragement in every way, hoping that said that I could not possibly shoot a take the place of paper theories, some- had caught the vision of genuine or- when they become men they will have grey squirrel, and I might as well give

> That settled it with me, for the things that my grandfather said I could not do, I invariably did. So here I was on a frosty morning of late October, sitting quietly in the woods, waiting for squirrels to stir. The morning was at hand; the shadows were disappearing; the sun would soon floor with its light, first the mountain peaks, and then the beautiful valley, causing the hoar frost to disappear. Up from the valley below me floated a robin's call as cock robin awoke, and loud and shrill the call of the yellowshafted flicker echoed and reechoed through the stillness of the woods and valley. Ordinarily no yellow-shafted to me in that fashion, but on this parer, those of business, educational and ticular morning I was hunting larger

> > Ah! the sun was peeping over the hills and Jack Frost would soon "fold his tents like the Arabs, and quietly steal away."

> > But where were the grey squirrels? Not a sound in the tree-tops, not a dropping nut, not a bending bough was to be seen or heard, not even a defiant bark awoke the slumbering echoes of the woods. I grew colder and colder for I had been sitting perfectly still that I might not alarm the squirrels. I was almost discouraged, when, looking up, I saw a squirrel flattened down upon a high limb of a chestnut tree. He looked small to me, so I concluded that it was only a red squirrel, and I waited a little, but I was so cold and desperate that I concluded that even a red squirrel was game for me that morning. So I took aim and pulled the trigger. ""Snap," went the cap; then after an interval, "Bang," went the gun. The old gun had hung fire.

In a moment the squirrel was running rapidly down the tree, looming up larger to my astonished eyes every moment for I saw that he was a large grey squirrel. I naturally inferred that I had missed him entirely on account of the gun hanging fire. But the surprise of my life awaited me, for when about three feet from the ground he suddenly dropped, perfectly dead. How astonished I was! How beautiful he Or Jack who climbed on a bean-stalk looked! How magnificent his large, high bushy tail! I have shot grey squirrels winter, and it was from then on that been standardized or been developed we heard of the Kent county state corn along the lines of live stock production.

And tumbled the giant out of the sky in California that weighed two pounds —enormous fellows—but they did not wife Or the three mice safe from the butch- look as large to me as did this, my first grey squirrel.

> I hastened home and proudly display-I think I'll see that they take no umphant interrogation.

Uncle Sam is today the quartermastonight.

With horn and mittens and rope and ter of a hungry world. He is playing the game squarely and counts on everyone.

## Caponize the Roooster

By FLORA DEAN

old. The meat of fat fries is no better feeding are slightly moldy. than the meat of capons.

mer fries.

One of the best things about the odor of the tar. capon meat supply is that it is stored on foot, and is fresh meat of the best grade whenever we want it. There is no loss in the keeping, for the weight is constantly on the increase. We have been urged and all but forced to rear a large poultry supply to enable us to release the pork and beef supply for the use of the armies in the field. This can be done to the best advantage so far as the winter supply is concerned, by caponizing, for cockerels will not remain good eating until they are so large, and hens are not liked so well even if we wanted to sacrifice them.

, The modern caponizing tools are so well made and the methods of doing the work so well developed that it has with the instruments, and as the oper- fair, more of a Moorish palace. ation is not a very painful one for the cockerel, there should be no hesitation which the building will be constructed, in attempting it if you are at all nim- a sunken garden with all its accessor-

show a marked difference in their be devoted exclusively to the comforts growth, and grow larger than cockerels of the "lofty" hen. of the same age, weighing several pounds more when fully grown. The meat is always tender and sweet, and preferred by many to turkey or goose. flocks of them can be grown together, nor will cockerels or cocks bother them. Any left over winter can be used for mothering flocks of chicks, for which they have excellent reputations, though I have never seen one serving in that capacity.

#### POULTRY QUERY DEPARTMENT.

Lameness and Difficult Breathing.

I have a pullet that is lame in one leg and when made to move she will use her wings for the first yard. This fowl opens and shuts her moth when she breathes. Her comb is red and her appetite good. She has also been an excellent layer. I have a couple more that are also layer. Here here feeding that are also lame. Have been feeding chickens, than through any other boiled oats in the morning and wheat agency. and oats at night. What is the trouble, and what is the cure?
Washtenaw Co.

H. F.

trouble with your fowls, as you did not Poultry Husbandry, at Michigan Agria diagnosis. Lameness and difficulty day, on raising chickens for the greatin breathing are more often found in a est results, and will spend his entire disease called aspergillosis, but with time in assisting the chicken movethis disease there is usually lack of ap- ment." petite and some evidence of fever, also. Mr. Dickinson is making arrangediseased patches will be found on the ments to provide extra prizes for the mouth and throat passages. Other boys and girls of the state, who excommon causes of lameness are bum- hibit their fowls at the Michigan State blefoot, which is usually brought about Fair in Detroit, August 30 to Septemby having the roosts too high from the ber 8. floor or having the hens walk on hard floors all the time; and rheumatism which is caused by damp and unsani- never amount to much. Watch the

ing of musty grain or the scratching head and under the wings.

N easy way to insure a reliable about in musty straw or litter. The winter meat supply is to capon- disease is carried from one bird to anize enough cockerels to furnish other and, therefore, in treatment one Take April or May hatched cock- should isolate all affected birds, the erels and caponize them when they surroundings should be cleaned up and reach two and a half or three pounds special care should be taken to provide weight and they will continue to grow nothing but clean litter and grain. It in weight until they are ten months may be that the wheat or oats you are

Affected birds can be treated by ap-To sell cockerels as broilers or to plying tincture of iodine or flowers of use them as broilers or fries gives sulphur to the diseased patches of the us but small returns comparatively, for mouth, or by causing the birds to inthere is so little of them, but when we hale the vapor of tar water. The tar take a moderate sized flock, caponize water can be obtained by stirring two them and grow them until they weigh tablespoons of wood tar in a quart of ten or twelve pounds each we have a warm water and allowing the mixture pretty good meat supply. If we want to stand for several hours; and then to sell them they will bring as much with the birds in a closed room the tar per pound as the ordinary broiler price, water should be poured a small amount and more than we often get for sum- at a time, on a hot brick or stone until the atmosphere is well filled with the

#### A CHICKEN PALACE.

The importance of the hen has become so great that she has forced the Michigan State Fair, not only to consider her more seriously, but to open its coffers to the extent of \$25,000 with which to construct a building to house her at the fair.

Under the direction of G. W. Dickinson, secretary-manager of the fair association, building operations have commenced upon a beautiful brick and stone chicken "palace" at the state fair grounds.

The structure will be 180x200 feet become an easy matter for anyone to and two stories in height. Instead of get a set of tools and do their own resembling a chicken repository the caponizing. Full instructions come building will remind the visitors at the

In a large open air court, around ble of finger and have the ordinary set ies will be laid out. A wide, concrete walk, with settees placed every few Any of the meat producing breeds feet, will encompass the entire encloswill make good capons. They soon ure. The interior of the building is to

The building besides being an ideal display house, will be a model from which poultry raisers may obtain valuable suggestions for the care of their As the capons never are quarrelsome, own fowls. Never before has so much attention been given to the chicken, by the fair association, as will be displayed at the 1918 exhibition.

> "One of the greatest agencies for food conservation and production is the raising of chickens," Mr. Dickinson asserted. "The Michigan State Fair is making every effort to bring this forcibly before the people of the

> "We are endeavoring to assist in the movement to interest the boys and girls of the state, in raising chickens in the yards of their homes. It has been said that more mortgages have been scratched from the records by

"The exhibit at the coming fair will be under the direction of Prof. C. H. It is very difficult to tell what is the Burgess, head of the Department of ive enough symptoms for one to make cultural College. He will lecture each

Young chicks pestered with lice will youngsters closely, and if there is any The cause of aspergillosis is the eat- sign of vermin apply grease to the

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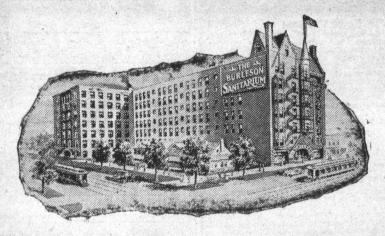
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WE CURE PILES, FISTULA and all other DISEASES of the RECTUM (except cancer) by an original PAINLESS DISSOLVENT METHOD of our own WITHOUT CHLOROFORM OR KNIFE and with NO DANGER WHATEVER TO THE PATIENT. Our treatment has been so successful that we have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

We are not extensive advertisers as we depend almost wholly upon the gratitude of

We are not extensive advertisers as we depend almost wholly upon the gratitude of the thousands whom we have cured for our advertising. You may never see our ad again so you better write for our book today before you lose our address.

Drs. Burleson & Burleson

804 The Burleson Bldg.

Grand Rapids, Michigan

#### BREEDERS' DIRECTORY.

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

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

Flanders Farm, Orchard Lake, Mich.

CATTLE. .

## Wildwood Farms

Breeders of Best Strains of

### **Aberdeen Angus Cattle** and Duroc Jersey Hogs

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

SIDNEY SMITH, Supt. 4 Wildwood Farms, Orion, Michigan W. E. SCRIPPS, Proprietor.

#### WOODCOTE ANGUS

Trojan-Ericas and Blackbirds only Breeders of the dam and former owners of the sire (our herd bull) of the Grand Champion Bull at the International Chicago for 1917. WOODCOTE STOCK FARM, Ionia, Mich.

Cloverly Angus Good quality bulls of serviceable age and younger. Inspection invited. Geo. Hathaway and Son. Ovid. Mich.

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

GUERNSEYS must reduce herd, so offer Glenwood breeding also bulls, all stock of A. B. breeding, herd tuberculin tested.
T. V. HICKS,

Battle Creek, Mich.

Registered Guernseys A fine 3 year old heifer and her heifer calf—right in every way \$350, F. O. B. your town. J. M. WILLIAMS, North Adams Mich.

Guernseys 45 Registered head, all th tested. Nora's May King, son of Imp. May Rose King, heads our herd, 19 of his half sisters sold averaging \$1950 each. His bull calves are booked ahead at reasonable prices. Avondale Stock Farm, Wayne, Mich.

Guernseys—2 Registered bull calves. Good breeding, cheap for quick sale, note accepted in payment. Hicks' Guernsey Farm, Saginaw, W.S. Mich. For Sale Registered Guernsey bull cal-your May Rose breeding. JOHN EBELS, R. 2, Holland, Mich.

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

For Sale 5 Imported in dam Registered Guern-sey heifers, 8 months old, also bull calves. E. A. Black, R. 3, Howard City, Mich.

### **CLUNY STOCK FARM**

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

Write us your wants.

R. BRUCE McPHERSON, Howell, Mich.

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

#### I Always Have Holsteins To Sell

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

OAK Leaf Farm. Herd sire Lenawee Pontiae Cal-amity King offer Registered Holstein bull calves from A. R. O. cows and the above sire whose dam holds the milk and butter record in the state of ind. 7 days milk 7963, butter 32.51—315 days milk 23782.3, butter 926,775. E. H. GEARHART & SON, R. 4, Marcellus, Mich.

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

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

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

\$50 gets 1 mo. old son Pontiac Hesperia 2d. 14
tuber. Terms. tSee April adv. for formales.
M. L. McLAULIN. Redford, Mich.

## Stonyhurst Stock Farm

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

This youngster is 3 mos. old finely marked, straight and weighs 350 lbs. his full sister has just made at 1 year 11 mos. 17.64 of butter, 456.5 milk 7 day. Priced Cheap.

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

## Letters from Our Readers

KIND READER:-

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

THE EDITORS.

### Responsibility In the Farming Business

successful farm operation; it is more Benzonia, Mich. of a labor proposition than a business proposition. But the practical farmer knows that he must do some figuring in a business way as well as the manual labor on a farm if he makes both ends meet financially year after year. In other words, makes a success out of the business of farming.

Some people argue that farming is a vocation or that it is an art or science, but all of them are in a sense wrong. Farming is simply a plain, old-fashioned business pursued for the legitimate purpose of making a living, and it requires business management and the assuming of business responsibilities in order to make it a success. I have personally known several men who were intelligent, willing workers and understood farm work in all of its details and could work for someone else and give a good account of themselves, but who, when they assumed the responsibility of managing a farm were failures. This business responsibility was more than they could master successfully and they have given up farming and gone into other kinds of work where the responsibility is very much

Years ago the responsibility of farm management was much less than it is today. Physical energy was the big asset then. Now farming has become a complicated business and it is getting more so each year. Our forefathers practically produced all their own food and their own clothing on their own farms. They were almost entirely independent of outside conditions. But nowadays farming is more highly organized. Everything, practically on the farm is sold off and exchanged for money, and this money is used to buy the things which the farmer and his family need in their living and for the production of farm products. Exchanging them for money and again exchanging this money for the things which the farmer and the farmer's family must have is a much more complicated business proposition than some very good men care to assume.

To illustrate: Only a few years ago, knew of a farmer of middle age who lived on a good, productive, well-located farm, stocked with a good herd of dairy cows. He was progressive enough to belong to a cow-testing association; he understood business fairly well and passenger elevator in a business build. in the common honesty of man. ing in the city. I met him the other farm.-C. L., Kent County.

#### A CONUNDRUM TO HIM.

ing it and are only allowed a limited scriptions.

amount for home consumption. The wheat we have to haul to the market and the by-products we deliver ourselves back to the farm. The price we HE responsibility of farm man- receive for the wheat is less than what agement is more than the aver- we pay the dealers for the by-products age person seems to realize. and we feed these by-products to our Many people have an idea that there is cows to produce butter at forty-two no business element that enters into cents per pound, another loss.—L. L.,

#### WHY NOT BOOST?

Gentlemen:

I am very glad to see you provide a place for we common folks to express ourselves. It shows a democratic spirit on your part and gives us a chance to work off our differences of opinion.

It is interesting to note in the reading of several farm papers the attitude people take on various questions. I was interested in the attitude taken on the potato and bean situation. Some liked to wave the red flag and call those in power robbers and crooks, and wanted the whole system changed. Others realized the situation was bad and had a firm desire to have it aleviated as much as possible.

To my mind the potato situation was brought about by various things. There was what Mr. Miller was supposed to do, the car shortage, the pro-German winter and the selfish desire of the farmer last fall to get just a little more out of his potatoes. Right now the government authorities and public spirited people are doing their best to get the large crop to consumers and useful purposes and thus save the farmers from loss, and I believe they are succeeding. Let's give them credit.

With the beans it looked as if the government was in conspiracy with Mr. Pinto when, in fact, they wanted to conserve to this country in this time of food shortage a new economical food product. It cut the possibility of higher profits for Michigan growers but it did save the food and when the matter was brought to the attention of the proper authorities something was done to relieve the Michigan situation.

These things, of course, hit our pocket-book and when a man's pocket-book is hit he yells, and he has a right to. But I decry the attitude taken by some of calling everybody but themselves thieves and liars.

Before we are farmers, middlemen and consumers, we are human beings and as such are susceptible of error and blunder. Governments and public institutions being run by humans are also susceptible to error.

I'll admit that there are crooks and liars in this world, but they are so uncould discuss farm topics more intelli- common that when they are found we gently than the average farmer; yet hear about them. On the other hand, this man sold his farm, invested his honesty and confidence in each other money where it would be the least are so common that no noise is made bother to him, and is now operating a of them. Business is built upon faith

So why not quite calamity howling day and asked him why it was that he and boost instead. Right now more gave up farming for a position like than ever there is need of courage and that. I could not understand. His re- encouragement. Boosting builds, knockply was that a man had to assume too ing kills. Let each one of us do our much responsibility in operating a best and take our share of the result of public error. We can do useful things in the time wasted waving red flags .- W. F., Wayne County.

Here is a matter that I do not seem Mecosta county farmers have formed to understand. The price on our wheat the Rodney Cooperative Association, is fixed. We are prohibited from feed- with \$7,500 signed up in stock subEATTLE

## The Pontiac Herd

"Where the Champions come from"

Offer Bull Calves sired by sons of Pontiac Korndyke, Hengarveld DeKol, Pontiac Dutchland, or Admiral want a Pontisc in your herd?

Pontiac State Hospital, Pontiac, Mich.

### HOMESTEAD FARMS

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

Will you write to us for full description and photographs?

HOMESTEAD FARMS, Bloomingdale, Mich.

## The Traverse Herd Great Values In Bulls

from A. R. O. Cows with records up to 30 lbs.
Let uskno w your wants. We will send extended pedigrees and prices.
TRAVERSE CITY STATE HOSPITAL,
Traverse City, Michigan.

The most profitable cows are



**OLSTEINS** 

Let us show you. -Booklets fre The Holstein-Friesian Association of America, Box 164, Brattleboro, Vt.

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

HOLSTEINS of quality. Bull calves from dams with records high as 31 lbs. in 7 days. Also collie pupples. Rochester, Mich.

Registered Holstein bull calf, born Sept. 1917, dam daughter of 24 lb. cow, write for pedigree and price. F.O. B. your station.
E. E. STURGIS.
R. 3. St. Johns, Mich.

Holstein calves, 25 heifers, & 2 bulls 15-16ths pure, 5 weeks old, beautifully marked, 325 each, crated for shipmont anywhere. Buyonly the best, EDGEWOOD FARMS, Wistewater, Wis.

HOLSTEINS -- 16 grade, all 3 years old, soon. Apply W. L. KLEIN, Farmington, Mich., 1 mile west of electric car at North Farmington.

## HEREFORDS

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

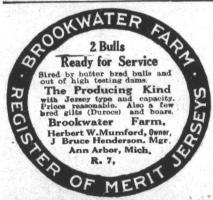
ALLEN BROS., PAW PAW, MICH.

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

Choice Bulls ready for service. Also heiters for service. Strong in the Blood of Royal Majesty. Gone and see them or write for particulars. Alvin Balden, Capac, Mich., Phone 143-5.

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

For Sale Jersey Bull
Goldie's Forhall No. 161985. Dropped March 22, 1917.
Solid color, black tongue & switch. A fine individual
large of his age, will sell cheap. Also a young cow &
several bred helfers, all of solid color.
NEWMAN'S STOCK FARM, R. 1. Marlette, Mich.



Choice Reg. Jersey Bull Calves, 2 Duns 3 mos, old from dams that are doing better than 40 lbs. monthly grandsons of Majesty's Western King Price \$59 reg. & transfered.

FRED A. BRENNAN.

Oapac, Mich.

JERSEY bull and bull calves for sale from R. of M, own, also heifers and cows of all ages.

O. B. WEHNER, R. 6, Allegan, Mich.

O. B. WEHNER, R. 6, Allegan, Mich.

Jerseys for sale Ready for service bulls.

Raleigh,
Majesty, breeding. WATERMAN & WATERMAN
Meadowland Farm, Ann Arbor, Mich.

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

For Sale A fine, dark, solid color Jersey bull.

Royal Majesty and out of R. of M. cow.

Choice Jersey bull calves sired by Oxford's Flyling Fox 137349. Champion at Kalamazoo

Fair. Register of Merit record of dam 788 lbs. butter,
13792 lbs milk in one year. Dams of these calves are high producing prize winners. Prices reasonable.

C. S. Bassett, Kalamazoo, Michigan.

## Michigan Shorthorn Show and Sale

To be Held in the City of Flint

Monday, June 3rd

## 75 HEAD 35 Bulls and 40 Cows

A great many cows with calves by their side and safely in calf again.

All those in the market for good general purpose cattle that are right, are invited to attend.

Catalogues on Application

W. W. Knapp, Mgr., Howell, Mich. Andy Adams, Auctioneer

### **AUCTION SALE**

Shorthorns and Holsteins By Carson City Calf Club, Carson City,
June 8, 1918, 2 P. M.

7 Registered Scotch. Scotch Topped and English year
old Shorthorn Heifers.
4 Registered year old Holstein Heifers.
5 For particulars write
E. B. Stebbins. Carson City, Mich.

#### SHORTHORNS For Beef and Milk.

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

BIDWELL STOCK FARM,
Box B, Tecumseh, Mich.

## Shorthorns

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

O. H. PRESOOTT & SONS.

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

### For Sale Registered Jersey Cattle

Francisco Farm Shorthorns We maintain one of Michigan's good herds of Soot and Sootch Topped cattle. They are well bred, pre-grly handled and price reasonable. Come and see; and bottom.

erly handled and price reasonable.

Mt. Pleasant, Mich.
P. P. POPE.

Gestah Topped ani-

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

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

Shorthorns Maxwalton Monarch 2nd, 387322 half brother to 5 Grand Champions in service. JOHN SCHMIDT, R. 5, Reed City, Mich. ON of Harthorth Welfare heads our herd of milk-ling Shorthorns Comprising Chifley of Clay bred cows, young bulls ready for sale and service, write us Liddel Bros., R. 2. Clinton, Mich., Macon Phone.

Shorthorns - Sired by a grandson of Cyrus COLLAR BROS, R. 2, Conklin, Mich.

SHORTHORNS—20 bulls 2 to 18 mos., mostly from S Dorthy's Sultan 483045, a grandson of Whitehall Sultan, also a few cows. C. Carlson, LeRoy, Mich Dairybred Sherthorns of best Bates Strains, young stock of both sexes for sale.
J. B. HUMMEL, - Mason, Mich.

Scotch Shorthorns for sale, 5 bulls ready for service.

John Lessiter's Sons. Orion, Mich., R. F. D.

#### SHORTHORNS

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

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

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

Cattle For Sale

Loads feeders and two loads yearling steers. Also Coan show you any number 1, 2 and 3 years old from 600 to 1200 lbs. Isaac Shanstum, Fairfield, Iowa, R-8

## Richland Farms PLYMOUTH, MICH. BERKSHIRES

SPRING PIGS

Gladstone---Majestic---Dukes Successor breeding

#### Only a Few Left For Sale

THOROUGHBRED Berkshire Pigs, 6 weeks old, a limited number \$20 each, registered and trans-ferred, either sex. Riverview Farm, Vassar, Mich.

DUROOS Orion Chief Perfection No. 68945, and Jennings Photwonder No. 73873. Two outstanding boars of big type and excellent quality. All selected large type smooth sows. Thrifty, smooth, large boned spring gits from these herd boars and choice sows at very reasonable prices. The Jennings Farms, Bailey, Mich.

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

## DUROC JERSEYS E. D. HEYDENBERK, Wayland

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

DUROCS service boars, bred sows, J. H. BANGHART, E. Lansing, Mich

Duroc Jerseys for sale. Service boars & spring pigs also Shorthorn bulls, calves, milking Strain. CHAS. BRAY, - Okemos, Mich.



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from great hard in even summing where I am not already rep-great hard in even summing where I am not already rep-sented by when I want to the summing when the summing the summing when I want to the summing when Money from Hogs. my great herd in every community waster as a resented by these fine any developers—ready for market at a resented by these fine any plan— More Money from Hogs. mosths old, © Write for my plan— More Money from Hogs. G. S. BENJAMIN, R. F. D. 10. Portland, Michiga

Spring Pigs for sale. Pairs and tries not akin.
J. D. ORANE & SON, Plainwell, Mich.

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

Cass City, Mich.

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

O. I. C.'s all sold except some fall gifts. Order O. J. THOMPSON, Rockford, Mich.

O. I. O. 's. Last spring gilts bred for next spring far for a row also last fall pigs either sex and not akin. Good growthy stock % mile west of Depot, Ottizens phone 124. Otto B. Schulze Nashville, Mich.

O. I. C.'S Big type serviceable boars. Spring far-rowed boar pigs. Bred gilts to farrow July and Aug. G. P. ANDREWS, Dansville, Mich.

O. I. C. gilts bred for Aug. and Sept. farrow.
Spring pigs will soon be ready to
ship. F. O. BURGESS, Mason, Mich. R. F. D. 3

O. I. C's. Large type, spring pigs bred from State Olover Leaf Stock Farm. R. 1, Monroe, Mich.

A Great Opportunity
We are offering one of our herd sires, Big Type Poland
China Yearling Boar. His sire a prize winner at
Kansas State Fair, His dam a prize winner at Missourt
Lowa, Kansas and Nebraska State Fairs. A splendid
individual and perfectly marked. Spring pigs for salo. HILLCREST FARM, Kalamazoo, Michigan

FOR SALE

Smooth Jumbo a grandson of Peter Monw's old boar
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;

Large Type P. C. no public sale this year; 50 sows and Lgilts all queens of the breed go at private treaty.
W. J. HAGELSHAW. Augusta, Mich.

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

Nothing for sale at present. Spring pigs O.E. GARNANT. Eaton Rapids, Mich.

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

LEONARD'S Bred sows all sold, fall pigs, orders booked 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, Baline, Mich.

Large Type P. O. fall gilts, sire 800 lb. yearling to be bred to 1000 lb. 2 year old for July & Aug. 2 extra good fall boars. WM. J. CLARKE, R.7, Mason, Mich.

BIG TYPE Poland Chinas: Brood sows all sold. Have a few fall pigs. Prices right.
L. W. BARNES & SON. Byron, Mich. L. S. P. C. all sold out, except the largest farrow. H. O. SWARTZ, Shoolcraft, Mich.

Hampshire Boars at a bargain. Book-lag orders for Spring pigs. JOHN W. SNYDER, R. 4, St. Johns, Mich.

HAMPSHIRE PIGS-We have some very choice spring pigs, Messenger and General Allen blood line, perfect belt and good bone. Write your wants.

L. D. O'BRIEN, R. 2, Jackson, Michigan.

#### HORSES

Percherons, Holsteins, Angus, Shropshires, Duroca

Percheron Stallions and mares of reasonable prices; inspection invited.

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

No more Registered Percherons for sale at J. M. HICKS & SONS, R. 2, Williamston, Mich. FOR SALE Two Registered Percheron stallions and two Percheron mares at the right price. E. J. ALDRICH, Tekonsha, Mich.

Shetland Ponies, Fox Hounds, Young Occar Hounds and Belgian Hares, W. E. LECKY, Holmesville, Ohio.

SHEEP

### KOPE-KON FARMS.

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

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

ARMSTRONG BROS., R. S. Fowlerville, Mich.

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

# 

SECOND EDITION.

On account of the holiday this week the markets in this second edition were revised and corrected on Wednesday afternoon, May 29, instead of Thursday, the regular day for revision.

Pittsburgh.—There is little or no demand for hay, and arrivals, while light, are hard to place.

No. 1 timothy.....\$22.00@22.50

No. 1 light mixed.... 19.00@20.00

#### WHEAT.

The new crop of wheat is showing general improvement. The lack of extended periods of extreme warm weather is favorable to this plant, especially with the moderate amount of rain that has fallen. Receipts of old grain are very small and stocks are out of all comparison with former years. One year ago No. 2 red wheat was quoted on the local market at \$2.73 per bushel. Present Detroit quotations for cash resent Detroit quotations for cash wheat are:

at are:
No. 2 red wheat .....\$2.17
No. 2 white ...... 2.15
No. 2 mixed ...... 2.15

#### CORN.

At the opening this week a bearish feeling took hold of the corn trade and prices at the big central markets where supply and demand are acting most freely showed a tendency downward. Embargoes have restricted the buying which, with the splendid progress being made by the new crop, gives the consuming public confidence that ample stocks will be available when they are needed. Over practically the whole corn growing sections of the country the new crop is being when they are needed. Over practically the whole corn growing sections of the country the new crop is being planted in good season. Exporting the 1917 crop will probably not be on a large scale until July or later, when the grades available can be handled by exporters without undue loss. The American visible supply decreased a third of a million bushels last week to 15, 118,000. A year ago No. 3 yellow corn was quoted in Detroit at \$1.63½ per bushel. Present Detroit quotations for cash corn are:

No. 3 corn \$1.40

No. 3 yellow \$1.55

No. 4 yellow \$1.55

No. 5 yellow \$1.30

No. 6 yellow \$1.30

No. 2 yellow \$1.30

No. 2 yellow \$1.30

No. 2 yellow \$1.30

No. 3 yellow \$1.72

No. 3 yellow \$1.72

No. 3 yellow \$1.58@1.68

No. 2 yellow ......\$ 1.72 No. 3 yellow ..... 1.58@1.68 July option ..... 1.36%

#### OATS.

Our reports show no important changes in the condition of this market. There is evidence of a slightly easier feeling due to the promising condition and the large acreage of the new crop. Prices, however, are generally about steady with a week ago. A fairly liberal business is being transacted, except that buyers from the seaboard are not taking sold as generously as they were a month or so ago, ously as they were a month or so ago, because of limited shipping facilities. The present American visible supply totals 20,515,000 bushels, against 22,-907,000 bushels a year ago. A year ago the local quotation for standard oats was 67c per bushel. Present De-

#### RYE.

This market is slow with receipts small and demand limited. Stocks are smaller than a year ago, while clearances from the Atlantic coast are larger. Detroit's quotation for cash No. 2 er. Detroit's qui is \$2 per bushel

The hay market is inactive and weak and demand is small. Detroit quota-

tions are: No. 1 timothy....\$20.00@20.50 

to preco.
imothy\$22.00@22.50
mothy 19.00@20.50
ght mixed 19.00@20.00
lover mixed 14.00@16.00

#### FLOUR.

Per 196 lbs. in eighth paper sacks,

rer 196 los. In eighth paper sa in jobbing lots: Straight winter...\$ 11.25 Spring straight... 11.40@11.75 Rye flour ...... 12.50

#### FEEDS.

Hominy feeds have lately declined about \$25 per ton, and rye and barley feeds are also selling at lower figures. The stocks of mill feeds ground after May 7 will be sold to farmers on the basis of the new schedule. Detroit feed prices in 100-lb. sacks, jobbing lots are:

Bran . \$37.00
Standard middlings . 39.00
Middlings, fine . 45.00
Cracked corn . 65.00
Coarse corn meal . 64.00
Chopped feed . 56.00

#### POTATOES.

From the grower's standpoint the

higher.

#### BUTTER.

Withf a larger movement of butter toward market centers, there is a ten-Withf a larger movement of butter toward market centers, there is a tendency toward a weakening of values. The quality of the product is much improved, although storage men are not inclined to put away present receipts, as they believe that a still higher quality will be forthcoming shortly, and that prices will then be on a lower basis than now. While present buying is merely to satisfy current needs it is remarkable how well prices are being maintained in spite of increased production. Dertoit exchange quotes fresh creamery firsts at 40@40½c, and fresh creamery extras at 41@41½c; some dealers pay premiums above these quotations. New York prices are slightly easier. Quotations there are: Best creameries 43%@44½c; creamery extras 43@43½c; do firsts 41@42%c a lb; packing stock 28½@29c. Chicago market is unsettled. Prices there for creameries range from 34@41c. The weekly settlement price for the week of May 20 to 25 would appear to be 415-6c per pound.

#### CHEESE.

On the following and the editorial pages of this issue appear articles of interest and importance to the wool growers of the state. An idea can be obtained from these contributions, as to what growers may expect for their 1918 fleeces.

#### DETROIT CITY MARKET

Our representative finds the city markets a lively place these days, with products selling at fairly steady prices. Old potatoes are bringing 50@70c per bushel; parsnips \$1; carrots 70c; radishes \$1.25; rhubarb 50c per dozen bunches; butter 50c; eggs 45c; hay \$23@25 per ton.

### LIVE STOCK DETROIT

May 28, 1918.

Cattle.
Except for the stock coming direct
from grass, the different grades of cat-
tle rule about steady as follows:
Best heavy steers\$16.50@17.00
Best handy wt. butch. strs 13.50@14.75
Mixed steers and heifers 12.50@13.50
Handy light butchers 11.50@12.50
Light butchers 9.00@10.00
Best cows 10.00@13.00
Butcher cows 8.50@ 9.50
Common cows 8.00@ 8.25
Canners 7.00@ 7.50
Best heavy bulls 9.75@13.00
Bologna bulls 8.75@ 9.00
Stock bulls 7.00@ 8.00
Light off-color stockers 7.00@ 8.00
Good stockers, dehorned 9.50@10.50
Milkers and springers 60@ 125
Veal Calves.

unchanged. 

#### BUFFALO.

#### CHICAGO.

May 28, 1918.

ipts.
,000
,556
,882
,505

Tuesday's receipts are heavy but the trading rules steady at about yesterday's prices. Later on there was more doing, but the market was far from active, and prices were not more than steady, although the choice beaves looked strong. Steers have sold 

@13.75, and some prime wooled Colorado lambs brought \$20.90 last Friday.

#### HAPPENINGS OF THE WEEK.

(Continued from page 670). (Continued from page 670). in progress on the Aisne and Flanders fronts. The attacks were preceded by bombardments of great intensity.—
The Aisne attack is on a front extending over forty miles.—Director General McAdoo has ordered an increase of twenty-five per cent in railroad freight rates, and passenger fares to be increased to three cents per mile.—
Through the heroism of Miss Wright, a switchboard operator, 200 guests BUFFALO.

May 28, 1918.

Cattle.

Receipts today two cars. Market is lling steady.

rime heavy steers.....\$17.00@17.25

est shipping steers.....\$16.00@17.25

est shipping steers.....\$17.00@17.25

est shipping steers.....\$18.00@17.25

Receipts today two cars. Market is ruling steady.
Prime heavy steers. \$17.00@17.25
Best shipping steers. 16.00@17.00
Plain and coarse 13.00@14.00
Native yearlings 15.00@16.00
Best handy steers 13.00@14.00
Fair to good kinds 12.00@13.00
Handy strs and hfrs mixed 12.00@13.50
Best fat cows 11.50@12.50
Best fat cows 8.50@ 9.50
Cutters 7.50@ 8.50
Canners 5.00@ 6.00
Grazing cows 7.50@ 8.00
Fancy bulls 11.50@13.00
Hatcher bulls 10.00@11.00
I Butcher bulls 10.00@11.00
I Butcher straigly strai

## What Is Your Wool Worth?

fleeces from the states of Michigan 1918 clip:

E VERY farmer who owns sheep is same sheep varies from season to seasopecially interested in the wool son. Weather condition especially interested in the wool son. Weather conditions, feed and the

determine definitely what the prices Remember these figures are not auwere for the different grades of wool thentic, but merely suggestive and are on the above date. This has been done meant to indicate about what Michigan and the following is the official list for farmers can expect to secure for their

	Choice.	Average.
Medium Combing (good staple)	72c to 75c	68c to 71c
Medium Clothing (hort staple)	68c to 71c	64c to 67c
Low Combing (good staple	68c to 71c	64c to 67c
Common and Braid, Low and Coarse	62c to 64c	58c to 60c
Half Blood, Combing	72c to 75c	65c to 71c
Half Blood, Clothing	65c to 68c	60c to 64c
Fine Delaine (Combing)	64c to 66c	58c to 63c
Short Fine	61c to 64c	52c to 58c
Short Fine		

and Ohio and all others east to the for scoured wool:

Choice.	Ave
Fine delaine	\$1.85
Fine clothing\$1.75	1.70
Half-blood staple	1.68
	1.60
Half-blood clothing	to
	1.62
Three-eighths staple	1.4
Three-eighths clothing	1.43
Quarter-blood staple	1.33
Quarter-blood clothing	1.30
Low quarter-blood	1.1
Common and braid	1.0

amount of shrinkage in wools from the issue. See page 670.

Atlantic coast and north of the Ohio many farmers who have purchased river. These prices are, as noted above, western sheep for both feeding and stock purposes. The wool from such three and four years ago, and 241 sheep has a different value than that from native sheep. These men naturally are anxious to get a line on what ally are anxious to get a line on what wool from these animals will probable wool from these animals will probable with the best price paid a year ago.

19 pounds two years ago, 234 pounds there and four years ago, and 241 pounds five years ago. Hogs rally very ago. Hogs rally very pounds there are any four years ago. Hogs rally very probable with three and four years ago. Hogs rally very probable with three and four years ago. Hogs rally very quickly after declines in prices as a rule, and a short time ago May pork sold above \$48 a barrel, an advance of the wool from these animals will probable with three and four years ago. Hogs rally very quickly after declines in prices as a rule, and a short time ago May pork sold above \$48 a barrel, an advance of the wool from these animals will probable. ably bring. The following range of values is probably not far from what should be realized for such fleeces:

Medium (good staple)60c to 70	C
Medium (short staple)57c to 65	C
Half Blood (good staple) 60c to 68	C
Half Blood (short staple) 56c to 65	c
Fine Staple	C
Fine Short	C
Braid, Low and Coarse56c to 60	C

### eterinary.

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

Mange.-My horses are troubled with itchy legs below knees and hocks. One of my horses has been troubled with it of my horses has been troubled with it for more than a year and the others have taken it from him, and whatever it is, it annoys them greatly. It makes them nervous, uneasy, and seems to cause them to lose flesh. Our Vet. calls it "Clyde Itch," and said to feed them sulphur. This treatment does not seem to help them. I have also applied creoline and coal tar disinfectant which Doubtless you have cases of chronic mange, almost identical to mange in dogs, and perhaps you have been endeavoring to cure your horses without clipping the hair off their legs. Apply equal parts tincture iodine and tincture benzoin compound with a small brush occasionally. Another very good application is equal parts of tincture iodine and camphorated oil. Also give each horse 1 dr. of potassium iodide and 2 drs. of Fowler's solution of arsenic at a horse 1 dr. of potassium iodide and 2 dose in feed or drinking water twice a day. It is perhaps needless for the writer to say that failure in effecting a cure in these kind of cases is generally on account of lack of persistency in treatment. There are many different remedies which possess merit. if they were applied two many different remedies which possess merit. if they were applied two many different remedies which possess merit. if they were applied two many different remedies which possess merit.

get up. So far as I know she has met with no accident. R. H. M., Shiloh, Mich.—Give her 40 drops of fluid ex-tract of nux vomica and 1 oz. of tinetract of hux vomica and 1 oz. of the-ture cinchona at a dose in either feed br drinking water three times a day. Hand-rub the muscles which seem to be weak, three times daily. It is good practice to place canvass under body and raise her on foot two or three times a day. Her bowels should be kept open, besides she should be well fed.

Blind Staggers.—I have a seven-year-old Percheron mare which, while working, is inclined to toss her head, move sideways and very often backs as if having a fit; however, after allowing her to stand still for a few minsulphur. This treatment to help them. I have also applied creoto help them. I have also applied to relieve them. I have also applied sulphur and lard, but none of these treatments seemed to do any good. B. J. C., Minden, City, Mich.—
Doubtless you have cases of chronic mange, almost identical to mange in mange, almost identical to mange in lameness in the right thigh, but less appeared and lately she is showing lameness in the right thigh, but less than the right thigh, but less the same than the right thigh. lame than heretofore.—A Subscriber, Linden, Mich.—Give her 1 dr. of bromide of potash, 40 drops fluid extract of nux vomica, and a tablespoonful of cooking soda at a dose in feed two or three times a day. Apply camphorated

remedies which possess merit. If they will not have another spell for several were applied two or three times daily. We are anxious to know what alls her. Subscriber, Linden, Mich.—ed and disinfected in order to destroy Perhaps her collar is too short, or posthese mange parasites. Besides, your sibly she may have a torpid liver, or grooming tools should be soaked in kerosene occasionally.

Weak Back—I have a Jersey heifer has these sicks spells. Give her 20 kerosene occasionally.

Weak Back.—I have a Jersey heifer a little more than two years old that came fresh two weeks ago, and since then cannot get up. She is not parten days. Also give her 1 dr. potasalyzed, can move her legs, eats all sium bromide at a dose in either feed right and is in every way normal so or drinking water three times a day, far as I can tell; but she is unable to for thirty or sixty days.

Weak Cow.—I have a cow due to freshen that is very thin, low in flesh, down, and is unable to get up alone. She has a good appetite, is fed good clover hay, two quarts of bran, two quarts of corn meal once a day; but she does not suffer any pain, and shows market just now. Increased inhealth of the animals are factors in interest is brought about by the recent action of the federal government in taking over the 1918 wool clip of the country and fixing prices thereon. In order to arrive at a just basis for the determination of values of the various grades of wool, it became necessary for the authorities having in charge the control of the wool trade to fix prices on the scoured basis. The prices agreed upon were those obtaining on July 30, 1917.

The first step necessary therefore was for the valuation committee to determine definitely what the prices Remember these figures are not at the does not suffer any pain, and shows no symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for her? E. C., Bellaire, and symptoms of sickness. What had I better do for he

#### LIVE STOCK NEWS.

Swine Prices Average High.
Hogs and provisions have been selling at far higher prices than in former years, notwithstanding the greatly in-creased numbers of hogs received in Choice.

72c to 75c
68c to 71c
68c to 71c
68c to 71c
68c to 71c
62c to 64c
68c to 71c
62c to 64c
68c to 71c
65c to 64c
65c to 75c
65c to 65c
65c to 75c
65c to 63c
64c to 66c
65c to 75c
65 week earlier, 211 pounds one year ago, 219 pounds two years ago, 234 pounds Provision holdings in western packing points have increased so much that most of the space is filled, but it is reported that the government holds 20 per cent of the stocks for exportation. On April 1 the combined stocks of dry Quarter-blood clothing 1.30
Low quarter-blood ... 1.07
The above table means comparatively little to the average farmer, because he has not been in the habit of selling scoured wool. And furthermore it is ment requirements for the handling of raw wool from these figures since the amount of shrinkage in wools from the subject in this amount of shrinkage in wools from the subject in this issue. See page 670.

Medium (short staple) ... 57c to 65c
On April 1 the combined stocks of dry salted hog meats in western pocking salted hog meats in western solder to foct to 65c showing an increase of 13,854,000 lbs. 57bc to 65c showing an increase of 13,854,00 year ago, with a 16,742,442 pounds.

### BROADENS SCOPE OF INTERNA-TIONAL.

The prizes offered, both by the "International" and by the various breed associations, were increased in nearly every division. Many cups, medals and trophies are to be offered in addition to the numerous and liberal mon-

and trophies are to be offered in addr-tion to the numerous and liberal mon-vey prizes.

The Illinois Centennial Commission will offer a line of splendid trophies in connection with this year's interna-tional, and exhibitors of every breed and in every division will have an op-portunity to compete for some of these.

It was furthermore decided to re-ward the superior skill of herdsmen, Wooth in the cattle and swine departments), shepherds and grooms who will be fortunate enough to carry off some of the higher honors in the vari-

some of the higher honors in the various departments.

The "short-fed" classes were given special attention and for the purpose of stimulating the short feeding of steers, the prizes in this division were greatly increased.

The barrow show will, as a result of specific increased prizes of forced both

greatly increased prizes offered both by the International and the breed associations prove one of the outstanding features of this year's exposition.

In the swine department it was furthermore decided to permit exhibitors

The board went on record as favoring a limited show of grains; seed corn and forage crops, feeling that an economic feature of this sort would prove both timely and interesting. both timely and interesting. Feeling that the International has a

more important mission to perform this year than ever before, the directors were agreed on putting forth every possible effort to bring the lessons this exposition teaches to the attention of the greatest possible number.

FRUIT

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

## Cutter's

Germ Free

## Blackleg Filtrate

## Blackleg Tissue **Aggressin**

The New, Safe and Efficient Agents for Protecting Calves from Blackleg.

Cutter's Blackleg Filtrate posi-tively protects against Black-

Cutter's Blackleg Aggressin, made directly from animal tissues, affords even greater protection and is recommended for Pure Breds.

Neither the Filtrate nor the Ag-gressin can possibly produce Blackleg in even the most sus-ceptible animals since both are germ free.

Both have given 100% protection wherever used.

rices— 10 dose pkgs. Filtrate....\$2.00

100 " " " " 15.00

10 dose pkge. Tissue Aggressin 4.00

N. B.—Cutter's Filtrate (a "cultural product" aggressin) is full 5 c.c. to the dose, as we believe that smaller doses, whether concentrated or not, afford less protection

Write for booklet telling what germ free vaccines are and wherein "cultural product" Ag-gressins differ from Cuiter's Aggressin made from animal

While these new "germ free vac-cines" have advantages that should be known to every stockraiser, we see no reason for a quick change to them by stockraisers who have had satisfactory results from the use of

### **CUTTER'S** BLACKLEG PILLS

'California's Favorite" for nearly 20 years

Year in and Year Out they have given better satisfaction than any other vaccine made, and as far as price and conven-ience of administration are concerned, they have all the advantage,

Prices:
10 dose pkge. Single pills \$1.00
4.00 50 " " 4.00 10 dose pkge. Double Pills 1.50 Cutter's Pill Injector .... 1.50 Insist on Cutter products. If un-obtainable, order direct. We pay shipping charges.

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"The Laboratory That Knows How"

The Cutter Laboratory of Himois, Chicago

## Those Growing Pigs

will do well if fed a slop composed of skimmed milk, butter milk, or, sweet milk, with

Dickinson's Rival Hog Feed or use water to make the slop if milk is

#### not available. Dickinson's Globe Chick Feed

makes strong chicks. Ask your dealer or write ALBERT DICKINSON CO., 605 Chamber of Commerce, Detroit, Mich.

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

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