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DETROIT, MICH., SATURDAY, NOVEMBER 2, 1918

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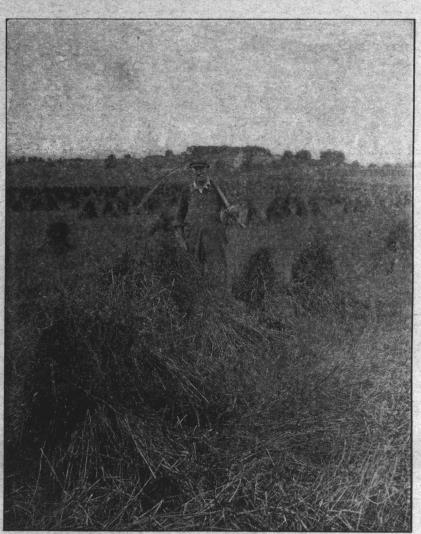
# MPLIFIED FARMING

HAT I want is some clean cut, young fellow who knows enough about farming to raise large crops of corn, small grains, clover and grass and to feed them to stock on my farm so that the business will be somewhere near self-supporting. If you can put me in touch with a capable man who will cut out new-fangled frills and fads and organize the affairs of the farm so that things will be in proportion I will give him the chance of a life-time. I believe that it is time we devoted more study to developing a system of plain simplified farming adapted to present conditions and tendencies.'

This business man, who owns one of the most valuable farms in Michigan, sounded the keynote of the whole problem when he made the above statement. There seems to be a tendency among farm experts to complicate a simple problem and lead farm owners to believe that there is some mysterious, hocus-pocus force that must be encompassed before they can derive any profit from their farming. In nearly every locality farmers are finding that greater profits follow a safe and sane system of crop growing and live stock feeding than can possibly result from a complicated system of farming where the overhead charges eat up the profits.

How to organize a farm for profit and keep in smooth operation the various branches of a diversified agriculture, using labor, soil and power to the best advantage and steadily increasing the value and fertility of the premises is a problem as intricate as it is immense. There must be organizing efficiency in order to accumulate a surplus of tangible assets through a term of years, and it is certainly true that the man who, by study and thought and business ability, has been able to develop and improve a large trained man of less actual experience.

The Real Vital Factors in Farming are Apt to be Camouflaged by New-fangled Ideas.-L.J. Meredith



Buckwheat—the Crop of Last Resort—Generally Yields a Profit.

as well as college training to make a his own farm and, as he gradually disfarm is better able to secure from the farm show satisfactory profits through covered the magnitude of his job and in we, as individuals, can lower the land the maximum yield than an un- a series of years. Many a trained ex- the smallness of himself in relation to cost of production by a more efficient A man needs to have business ability incapacity, felt while trying to manage that he could not make it pay. Busi-

pert has been humiliated by a sense of it, sold out rather than frankly admit organization of our business.

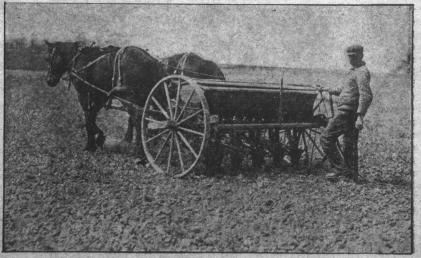
ness ability is as much a part of the farmer's equipment as are the farm and the products that he produces. Unfortunately business ability is not always, perhaps not ordinarily, linked with distinguished ability as a farmer. Some of the greatest money-makers connected with agriculture have not gained distinction as farmers. Some of the best farmers in the country have never made a success in a financial way. Men are comparatively scarce who have achieved the difficult twofold success as business farmers.

It is difficult to measure the profits in farming. There are so many factors, like the fertility of the soil and the value of the various improvements in stock and equipment that can not be appraised. Many a farm appears to be paying when, in reality, some one branch of its annual operation may be a source of expense that greatly reduces the profits. Some seasons a farm may pay good profits, while actually it fails to show a surplus through a series of years. The real test of wisdom of farm organization and its profits is found in the gain in value of the property at the end of a decade or more, when much of the income has been invested in the bus-

The cost of keeping farm records is small in comparison with the bookkeeping expense of the factory; however, it is profitable to keep a very accurate record of the cost of production. It is a vital thing for us to know how much of the products we are producing at a profit and which branches are paying the best returns. If there is any one question in all the realm of finance upon which a man may be, and is most likely to be honestly mistaken, it is that of profit on the farm. If we find that the cost of producing a product is nearly as great as the selling price, then we should determine where-(Continued on page 424).



He Turns Off About the Same Quantity of Stock Each Season.



His Farming Follows the Best Practices of the Community.

# The Michigan Farmer Editors and Proprietors Congress St. West, Detroit, Michigan TELEPHONE MAIN 4525. NEW YORK OFFICE—381 Fourth Ave. CHICAGO OFFICE—111 W. Washington Street. CLEVELAND OFFICE—1011-1015 Oregon Ave., N.E. PHILADELPHIA OFFICE—261-263 South Third St. LAWRENCE President NANCE Vice-President LAWRENCE Treas. CHINNINGHAM Secy. LAWRENCE...... R. WATERBURY URT WERMUTH RANK A. WILKEN LTA LAWSON LITTELL ROY W. SNELL MILTON KELLY I. R. WATERBURY...... Business Manager TERMS OF SUBSCRIPTION: 9

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### DETROIT, NOVEMBER 2, 1918



### CURRENT COMMENT

The War for a Just Peace gress has been made mately share in those profits. toward the forcing of

critical each day, if current news re-still larger undertakings of a similar ports are to be credited with accuracy, character,

The German reply to President Wilthat the German government was units. awaiting the terms upon which an arm- . This trend of the times toward coop-

of a complete revolution in Germany, of public policies. Let the good work which would deprive the military au- go on. tocrats of their power, there can be no other road to a just peace, than the final and crushing defeat of the German armies or the unconditional surrender of the military forces. This fact, which is so fully recognized by the people of America, will not be overlooked by the supreme war council of the Allies which is now formulating the terms on which an armistice will be offered. The outcome must depend tion of doubt. In some counties pubwholly upon the attitude of Germany. lic sentiment is neutral on the propo-Until she is ready finally and definitely sition and in a few counties it is adto quit upon such terms as the Allies are prepared to offer, the war will a county agent. progress relentlessly as heretofore. So

a war conducted solely for the crush- county men in their several fields. In to the constitution submitted at any The Lawrence Publishing Co. ing of the German military menace and practically every case where the work election shall be printed together on shortest and most direct road to the opportunity for effective work. just and lasting peace for which we The remedy is equally obvious. A day. fered them.

While the issue is no longer in doubt the present is no time for slackening of effort, either in material or moral Vote on the A support, but rather a time for redoubled effort to the end that the day of a just peace may be hastened by continued and increasingly decisive victory called Kultur which they represent.

Interest in

farmers in cooperative enterprises is Cooperation not only most gratifying but promises much

for the future prosperity of Michigan agriculture. This interest finds expression wherever a few farmers are gathered, either for neighborhood discussion or for a general meeting.

Interest in cooperative undertakings was most conspicuous at the recent meeting of Michigan bean growers at Saginaw. The farmers who were members or patrons of a cooperative elevator company were unanimous in their expression of satisfaction, and were not worrying about the trade URING the past practices which added to the profits of week marked pro- the business, because they would ulti-

But undoubtedly the great example a just peace by the of interest in cooperative efforts in Allied armies on the this state lies in the successful organwestern front. With the German arm- ization of the Michigan Potato Exies being continually forced back in change, with its many local units and Belgium and northern France toward thousands of members who will marthe German border with heavy losses ket their potato crop through this mein men and material, internal condi-dium. The success of this organizations in Germany are becoming more tion will undoubtedly pave the way for

But it is not alone in the larger efson's last note, which plainly stated forts along cooperative lines in which that the government of the United our farmers are expressing interest. States could accept no terms from the Cooperative live stock shipping organautocratic government of Germany izations are numerous and uniformly other than surrender, came as a sur- successful, and in many communities prise in most quarters, it having been have formed the neucleus for cooperadeemed unlikely that Germany was tion along broader lines. Cooperative yet in a condition to submit to the only threshing is also becoming popular in terms on which they could expect many Michigan communities, and it peace negotiations to be continued on would be a safe prophecy that the not the basis of previous diplomatic ex-distant future will see the successful changes. The German note contained operation of cooperative community no statement of importance other than power and transportation plants or

istice would be granted by the Allied erative effort is significant of the future in more ways than one. Too long Whatever terms for an armistice has the spirit of individuality been may be laid down by the military coun- characteristic of farm folks. In unity cil now in session at Versailles, it is lies strength, and unity in business certain that they will provide for the aims will bring closer unity in ideals virtual surrender of Germany. Short and a larger influence in the shaping

> County Agent Activities

ganized and county agricultural agents

employed, the beneficial results have the work is insured beyond any ques-

The reason for this situation is ob-

are fighting, lies in the continued vic- system which is so generally popular torious progress of the Allied armies cannot be seriously at fault. But the toward and into Germany, either job is a difficult one, in which experithrough the defeat or surrender of the ence is valuable. If the present incum-German forces. In the meantime, Aus- bent is beginning to make a good showtria and Turkey are showing every ing on the job he will be more valuable Spring Use evidence of desiring an early and sep- next year and should be given another arate peace on such terms as are of- chance. If not, another man may be gent use of chemical fertilizers is prof-

> Proposed Amendments

ber 5, there will be fertilizer in earlier. submitted to the elec-

tuition be amended to read as follows: fore they would be needed for use.

Section 1. In all elections every inhabitant of this state being a citizen of the United States; every inhabitant residing in this state on the twenty-fourth day of June, 1835; every inhabitant residing in this state on the first day of January, 1850; every male inhabitant of foreign birth who, having resided in the state two years and six habitant of foreign birth who, having resided in the state two years and six months prior to the eighth day of November, 1894, and having declared his intention to become a citizen of the United States two years and six months prior to the eighth day of November, 1894, and having declared his intention to become a citizen of the Latited States two years and six United States two years and six months prior to said last named day months prior to said last named day; the wife of any inhabitant of foreign birth who, having resided in the state two years and six months prior to the eighth day of November 1894, and having declared his intention to become a citizen of the United States two years and six months prior to said last named day, and every civilized inhabitant ed day, and every civilized inhabitant of Indian descent, a native of the United States and not a member of any tribe, shall be an elector and entitled to vote; but no one shall be an elector to vote; but no one shall be an elector and entitled to vote at any election, unless he (or she) shall be above the age of twenty-one years and has resided in this state six months, and in the township or ward in which he or she offers to vote twenty days next preceding such election: Provided, That no ing such election: Provided, That no qualified elector in the actual military service of the United States or of this state or in the army or navy thereof, or any student while in attendance at any institution of learning, or any reg-ularly enrolled member of any citizens military or naval training camp, held under the authority of the government of the United States or of the State of Michigan, or any member of the legis-lature while in attendance at any session of the legislature, or commercial traveler, or any qualified elector employed upon or in the operation of railployed upon or in the operation of railroad trains in this state or any sailor engaged and employed on the Great Lakes or in coast wise trade shall be deprived of a vote by reason of the absence from the township, ward or state in which elector resides, and the legislature shall prayide by law the legislature shall provide by law the manner in which and the time and place at which such absent electors may vote and for the canvass and remay vote and for the canvass and fe-turn of their votes: Provided, further, That the legislature shall have power to pass laws covering qualified electors who may be necessarily absent from other causes than above specified; and Provided further, That there shall be no denial of the elective franchise at any election on account of sex.

The effect of this proposed amend N many Michigan ment is to grant to women the right your neighbor it is a good thing for counties in which to vote at any and all elections in this you. A membership can be secured county agricultural state. The issue of woman suffrage is from any director or the local manabureaus have been or not new to the people of Michigan. ger of any of the four associations in The principle has been repeatedly indorsed by the leading farmers' organi- Wexford county at present is about zations of this state. It is a proposi- four hundred, and the membership in been so marked that the perptuity of tion upon which every voter in the northern Michigan is about five thoustate should have a definite opinion, sand, which means a business of at which opinion should be recorded by least four thousand carloads of potaa vote on this proposed amendment, to toes alone. Sell your produce through the end that the returns may accurate an association and get a better price. verse to the continued employment of ly represent the will of the majority In union there is strength. on this important question.

The other proposed amendment is of

far as our participation in the world vious. It is a reflection of the charac- minor importance in comparison, prowar is concerned, it has been and is ter of the work accomplished by the viding that all proposed amendments the establishment of a just and lasting has not measured up to the expecta- one ballot instead of on separate peace. The tide of victory has been tions of those who were instrumental ballots as now required. But each and definitely and finally turned by the aid in establishing it in any county, it is every proposed amendment to the funof our boys, supported as they have due to the inadaptability of the man damental law of the state is of suffibeen by a united American people. The employed, rather than to the lack of cient importance to merit the careful attention of every voter on election

> Fertilizers for

LARGE and in-A creasing number of Michigan farmers have become satisfied, through past experience, that the intelli-

found who will measure up to the job. itable to them. For the most part, these farmers have purchased these T the general elec- goods just as needed, because that has tion to be held been a more convenient method than on Tuesday, Novem- to anticipate their needs and get the

The dealers usually worked on the tors two proposed same plan, having the fertilizer shipover the German armies and the so- amendments to the constitution of the ped when as much as possible could be state. One of these is an important delivered from the car. Even the manproposition which should not be over- ufacturers counted on making their looked by any voter. It provides that goods for the spring trade by rushing T HE growth of in- looked by any voter. It provides that goods for the spring trade by rushing terest among the Section 1, of Article III of the consti- production for about three months be-

> But the war has changed this program as well as many others. Labor is becoming increasingly scarce and difficult to obtain, and the usual flush production will be impossible this winter. In order to get out the usual tonnage of fertilizers for spring use, factories will have to keep running from now on with a limited labor supply. Lack of storage facilities will make it necessary to ship the goods as they are made. Dealers are little better equipped for storage, and cannot carry sufficient goods for next spring's requirements.

Under these conditions the only way for the average farmer to be sure of his fertilizer for next spring's use is to order it now, take it when it comes and store it in his own barn until needed. The farmer who does not thus anticipate his needs is in grave danger of being disappointed next spring.

UNITED MARKETING IS PROVING PROFITABLE.

HE activities of the cooperative marketing associations and Michigan Potato Growers' Exmarketing associations change are in full swing. The Exchange has sold well over a hundred carloads of potatoes to date at an average price of about \$1.70 per cwt. in bulk, at shipping points. Considerable produce besides potatoes has been sold through the Exchange and a large quantity of sacks have been bought at very appreciable saving. The Exchange was selling at \$1.80 per cwt. in bulk on October 23 On the same day dealers in Cadillac were paying \$1.35 per cwt. The cost of handling will not run over twenty cents per cwt., showing a net saving to the growers of at least thirty cents per cwt.

I wish to take this opportunity to call attention to the benefits of the organization and urge farmers not already members to join and help their own pocket-books and at the same time help a good cause. The whole state is watching the outcome of this cooperative effort and numbers and a big volume of business will assure its continued success. If it is a good thing for Wexford county. The membership in

> CLARK D. MASON, Wexford County Agr'l Agent.

# Auto Traveling Made Comfortable and Inexpensive-By J. H. Brown

F there is any one long harbored and hankering desire in the mind of the average farmer and his wife these days, it is to take an automobile trip to some distant place or through one or more states. The objective point may be to visit some relatives or friends, or to look after some business matters. And, instead of traveling on the railroad, the farmer who owns an automobile wishes to drive his car through and possibly camp out along the way. Hundreds of farmers and their wives have tried this kind of a stunt and hundreds of thousands more will do it in the next few years to come.

The writer and his wife have driven many thousands of miles through many of the eastern and southern states and Canada and over one thou-

sand one hundred miles through the Alleghany, Catskill, Berkshires, Adirondack and Green mountains, and cooked, ate and slept in and around the car nearly every day and night for two months at a time. During the past summer we have enjoved such trips and camping out and never thought of stopping at a city hotel for lodging or buying a meal at a res-

Our board per week, per person, for the last three seasons, has been a little less than four dollars. We know because we have kept a memorandum book and entered the date, place of purchase and cost of meat, vegetables, bread, butter, fruit, matches, gasoline, oil, ice, etc. Our lodging has not cost us anything Mr. Brown's Home-made Outfit is Complete; it can be Used with the Smallest Car. Read About it Here



The Tent, Poles, Beds and Accessories Are Here Shown on the Right Run-



Here is the Author's Outfit Housing a Distinguished Party on the new "Monolithic" Brick Road Between Marshall and Albion.

except when we were in the mountains or occasionally failed to find a good place around some farmer's home. Even our laundry work was done by one or more of the women in our party, and there was plenty of it. Sheets, pillow slips, underwear, handkerchiefs, towels, etc., were kept immaculately clean, and not a cent was paid out for washing and ironing during one long overland trip of nearly three thousand miles.

These trips were a combination of business and pleasure two years ago; the same last year, and mostly business this season. While doing this work we took our family along and all had an enjoyable time of it and saved expense as well. We made it a rule not to travel Sundays on these trips. Late each afternoon we would

look out for a good place to stop over night on some farmer's lawn, and we generally had fine locations, even in the mountains. We never have, so far, camped out on the highway. There is more protection, convenience, and better environments around the farmer's home than on a public road.

The editors of the Michigan Farmer have asked us to write a story about how we take such trips, and to advise others who are contemplating them. Many farmers are even now planning on taking these trips this fall during the Indian summer weather.

Any farmer and his boys who have a small or medium sized touring car, and are fairly good mechanics, can fix up an (Continued on p. 414).

# Does Your Dairy Pay a Profit?



producing, unprofitable scrub is little ing, and skillful feeding." better than a "slacker," declares J. C.

them. The city, the country, and the people realize the remarkable rate at \$100, and the last to \$118. army need more dairy products; the which income advances as production taining permanent soil fertility; and of 5,587 cow-testing association records age results from the 5,587 yearly rec- vanced from \$21 to \$100, or almost five

HE profitable dairy cow helps to fed dairy cow may still be kept at a ering a period of four years, which 100 pounds per year..... and fifty to two hundred pounds, the 300 pounds per year Mr. McDowell has recently complet. income over cost of feed advanced 350 best cow families; if she is not an has to say should be of great interest creased income of sixty-two per cent tion increased from 150 to 300 pounds, economical producer she should be to dairy farmers everywhere. He ad- over feed cost. The next gain of fifty the income over cost of feed advanced converted into meat. But this is not vises that, to be profitable, dairy cows pounds raised the income over cost of from \$21 to \$63; in other words, as the time to dispose of herds; rather it must be comparatively large product feed to \$50, the next to \$63, the next production doubled, income over cost is the time to enlarge and improve ers, though he has discovered that few to \$74, the next to \$87, the next to of feed advanced three times. When

the carefully selected, well-bred, well from various parts of the country, cov- ords of forty cow-testing associations:

pounds per year ...

the butter-fat production increased This is graphically illustrated in the from 150 to 450 pounds—that is, trebdairy cow also assists greatly in main- increases. He has made tabulations following table, as found in the aver- led-the income over cost of feed ad-

(Continued on page 422).



THE most convenient and dependable iron to iron with is a self-heated Carbide gas iron. The farmer's wife who lights her house and does her cooking with Carbide gas can do the family ironing with the same gas burned inside the iron.

The farmer was the first to profit by the discovery that by putting a little Union Carbide (like crushed lime) into a generator about once a month with some plain water, he could have all the home-made gas he could use for lighting, cooking, and ironing.

Of course he found out that Carbide gas was far superior to city gas-more powerful light-richer, whiter, softer—and he told his neighbors.

He told his neighbors so effectually that Union Carbide today supplies the light in over 250,000 country homes.

Some of his neighbors were miners. A miner's Carbide lamp was invented to meet their demands. Today, Union Carbide supplies the light in over 700,000 of these miners'

lamps About the same time metal workers and machinists discovered they could weld and cut metals quicker and more economically with Carbide gas (when combined with oxygen) than by any other method.

And contractors, stevedores, and other night workers were quick to adopt Union Carbide for flare lamps and torches.

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WE WANT VETCH. SEND US. SAMPLE. Owosso. Mich.

# Getting Skids Under Potato Marketing Problems

plete survey of the Michigan potato the year round. market without delay and loss.

quirement of the shippers if they will Potato Exchange. plan their business so that the cars kept at home.

ing cars too lightly for one thing, and haps accepted only on consignment. also shipping to market inferior stock A man with Mr. Prater's experience or made into by-products.

that makes a specialty of marketing to five districts. perishable crops all through the year, There is a certain magic about a ganizations throughout the country.

sell the berry, tomato, cabbage, grape, rolling stock. and selling of their crops.

This man has had a long experience beyond the war crisis.-W. M. K.

NE of the big problems confront and to sell grapes he must keep in ing the growers and shippers of close touch with the best produce Michigan potatoes is that of se- houses all over the country. These curing freight cars at the right time trade connections are used hardly two and providing storage facilities. Mr. months in the year, and the salary C. E. Pierce, of the United States Rail- the growers could pay, though suffiroad Administration, who recently cient for a livelihood in a small town, made a trip through the leading pota- and even large when one considers the to-growing sections of the state, has short period in which he is actually delegated Mr. Dorr D. Buell, president selling the crop, is small compared of the Michigan Potato Growers' Ex- with what his knowledge would be change of Cadillac, to make a com- worth if it could be applied to selling

crop to ascertain the approximate This sales manager, Mr. G. E. Prater, number of cars that will be shipped Jr., one of Mr. Rule's flying aces, is out of each station, and about what handling the sales department of the time they will be ready to move. When Michigan Potato Growers' Exchange at this survey is completed the informa- Cadillac. Mr. Prater began the prestion will be used as a basis for fur- ent year in Mississippi handling cabnishing a sufficient number of cars at bages, onions, tomatoes and potatoes; the proper time to move the crop to from there he went to Texas during the onion and spinach season; to Ten-Wartime conditions are making it nessee to handle the strawberry shipimperative that all shippers of Michi- ments; to the eastern shore of Virgingan potatoes cooperate to avoid any ia to handle early potatoes; to southwaste of transportation. Mr. Pierce ern Michigan to handle grape, peach has promised that the administration and pear shipments. The second week will furnish a sufficient number of cars in October he arrived in Cadillac to at the right time to meet every re-handle the sales department of the

One of the biggest advantages in may be loaded promptly to maximum selling produce is to be able to deal capacity and all worthless specimens with the same set of brokers. For the broker who buys from a sales mana-Better methods of selling are also ger like Mr. Prater soon learns to acnecessary in order that the tubers may cept his statements about standard be sold at the shipping point, thus do- packing, and will order carload lots f. ing away with waste of transportation o. b. purchase by wire, when the statein hauling tramp cars. Many shippers ment of an unknown sales manager of Michigan potatoes have been load-would be subject to doubt, and per-

that should, under better methods of knows his business and when he came grading, have been kept on the farm to Cadillac to take charge of his new work he applied his ability to securing To secure the best possible transpor- a high grade of potatoes, and he can tation and market service and to coop- therefore sell stuff on the f. o. b. basis erate with the United States Railroad to the brokers with whom he has been Administration in moving the Michi-doing business elsewhere. In this way gan potato crop, as well as to meet the he can double his salary and also his scarcity of experienced sales managers experience, while increasing his usein handling the crop, the Michigan Po-fulness to the growers, trade and pubtato Growers' Exchange has taken ad- lic at least three times, and probably vantage of the ingenious plan of Mr. four or five. For instead of selling the Arthur N. Rule, general manager of potatoes or products from a single the North American Fruit Exchange district each year, during the season This exchange is a trade organization of several weeks, he can sell for three

taking fruit and crops from every grow-freight car in the minds of many growing section in the season and distrib- ers and shippers. They seem to think uting them in all consuming centers, that anything once loaded in it and set It is especially well known for it edu-rolling has attained a market standing. cational work and its close relation- On this account thousands of cars of ship with many of the big, successful Michigan potatoes have been sent cooperative farmers' and shippers or traveling round, hunting buyers, and rolling stock has been tied up. By em-Mr. Rule has in his employ a "flying ploying a sales manager of Mr. Pratsquadron" of experienced market men. er's caliber to take charge of the sell-All over the country, among the grow- ing end of its business the Michigan ers' marketing organizations with Potato Growers' Exchange is making which the exchange does business, it every effort possible to put the selling furnishes experienced sales managers end of the Michigan potato industry and salesmen whose seasons are brief, on a f. o. b. basis and stop the blind but active. These men pack, ship and waste of potatoes, freight cars and

peach, apple or potato crop of the sec- Under this plan of Mr. Rule's, good tion in which they are working per-sales managers are furnished to varhaps but a few weeks during harvest. ious farmers' associations where the By keeping these men moving from volume of business would hardly warone fruit or truck-growing section to rant the hiring of equally competent another their trade knowledge is turn- men throughout the year. By becomed to advantage to themselves and the ing affiliated with the North American public. These market and transporta- Fruit Exchange an expert is sent into tion experts have probably done more the district where the local exchange constructive work to overcome the per- or farmers' association is operating, to plexities caused by wartime market help handle the crop in the best manconditions than any other one agency ner possible. He not only acts as sales in the country, and at the same time manager, but trains the local helpers, they have saved growers and shippers acts as the growers' representative, of perishable products millions of dol- and is paid either a straight salary or lars through the more efficient grading a lump sum for handling the entire crop. Under this sort of arrangement In the grape-growing section of there is a prospect that all wartime southern Michigan Mr. Rule had one problems will be met and that decided of his flying aces who disposed of the economies in marketing Michigan's grape crop for a growers' organization. potato crop will be effected to last far

# The Best Servant We Ever Had-By Mrs. F. C. Small

ened the burden of farm work was a farm machinery. wind-mill pump that supplied water for the stock.

you can imagine in our old home. To churn. Of course, with the cream sep-

A E have been living on the farm house but the barns as well. In adshown in this illustration, for dition, we have a little one-sixth horseabout seven years. During the power motor on a stand that can be first six out of those seven years we moved around any place on the farm lived just as most farm people do; and attached to all kinds of appliances. without a great many conveniences I run the washing-machine with it and that they have in the city. The only my husband runs the grindstone, the thing we had on the place that light- fanning-mill and some more of his

The other illustration here shows this little motor in the milk house About a year ago we put in a little where it runs the cream separator and isolated electric light and power plant the churn. It certainly is a great help and it made a greater change than in this way, particularly in running the



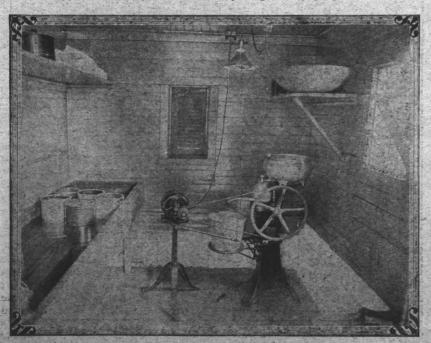
Ours was the Ordinarily Well-cared for Farm.

ing and the old-fashioned kind.

is even more important than that of of out in the milk house. light. It is a fact that one of these I have seen electric lights in the full and supplies not only the whole anything to city people.

begin with, we installed lights all over arator it saves a little work, though I the place; nineteen in the house, five stay right there all the time the sepin the automobile shed, six in the arator is running but with the churn barn, two in the milk house and one all you have to do is connect the motin the corn crib. There is certainly or up to the churn and turn it on; no comparison between electric light- you can then go on with your other work without worrying as to whether Of course, we are very glad to have it is going to take half an hour or two electric light and we are reminded ev- hours to do the churning. This little ery day what a great convenience it is, motor attaches to any lamp socket so but I sometimes think that there is that during this cold weather I have another side to the question of having been bringing the churn into the one of these little electric plants that kitchen and running it there instead

plants will furnish plenty of current city and during the last year we have for running little electric motors. In had experience with it in our own fact, they will even run motors as home in the country and I believe high as one-half horsepower. This electricity can be of much better sermeans that one hundred and one little vice to the farmer and his family than things on the farm that used to take it can to city people. To them it is a lot of hand-work can now be done by merely the best form of light and a means of electricity and it is even pos- good convenience, but to those who sible to run some of the farm machin- live in the country a good light is a ery with it. We used to pump from a more important thing than it is in the deep well pump by means of a wind- city, and in addition there are all the mill but we now have a one-half horse- power uses I have spoken of and many power motor that keeps a large tank others which, of course, don't mean



Here the Motor Saved a Lot of Hard Work.

# CURTIS

"The Permanent Furniture for Your Home"





Why not put a kitchen cupboard or an ironing board in your old home? Either one will make your work easier.

You will find that a linen closet or medicine case will save many steps.

Go to your lumber dealer today and pick out from his big Curris catalog the pieces of Curtis furniture you want. Be sure to pick CurtiS Woodwork-unsurpassed in design, material, workmanship and finish. When it is received you will know it by the trademark on every piece.

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Send for your choice of our home books today. They show exteriors, interiors and floor plans. They give ideas of how and why Curris built-in furniture and woodwork make a better built home. Clip the coupon.

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The makers of Curtis Woodwork guarantee complete satisfaction to its users. "We're not satisfied unless you are"

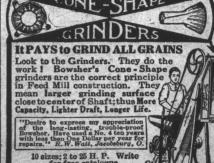


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# FOR SALE

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

GEO. S. BIGELOW, BREEDSVILLE. MICH.



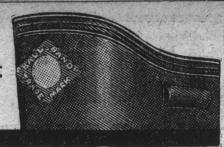


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# What Are Dry, Comfortable Feet Worth to You?



MAN with wet, uncomfortable feet isn't at his best, nor is he happy. A great army of over ten million people wear "Ball-Band" year in and year out and are assured of the great durability, economy and foot comfort which is found only in "Ball-Band" the kind marked with the Red Ball.

It will pay you to look for the Red Ball. Keep this round, red mark firmly in mind. Over 60,000 of the best dealers in the United States sell "Ball-Band." Ask your dealer.

If your dealer is not able to supply you promptly with the particular type of "Ball-Band" Boots or Arctics you desire, we can only ask you to be patient. Many of our boys in France are wearing "Ball-Band" Rubber Boots and Arctics. Meantime we are doing our utmost to supply, as quickly and as fully as possible, the wants of "Ball-Band" wearers at home.

MISHAWAKA WOOLEN MFG. CO., 319 Water St., Mishawaka, Ind. "The House That Pays Millions for Quality"



## More Than Money's Worth

If you reckon comfort with intrinsic worth-good looks and long wear-you get a lot more than merely money's worth when

# Tresident Suspenders

Every man who works hard owes himself all the comfort he can get. And it's his duty nowadays to make his money stretch, and stretch the right way. In Presidents you'll get more comfort, efficiency and service for your suspender money than you ever thought suspenders

So insist on Presidents. Your dealer has them or will get them for you. The name President on the buckle is a mark of quality. Look for it. Every pair is



Please mention the Michigan Farmer when you are writing to advertisers and you will do us a favor

Michigan 1918 Potato Crop by Counties. Per Cent Shows Condition; Other
Figures, Acreage as Estimated by Federal Crop Reporters.

# Bankers vs. Cooperation

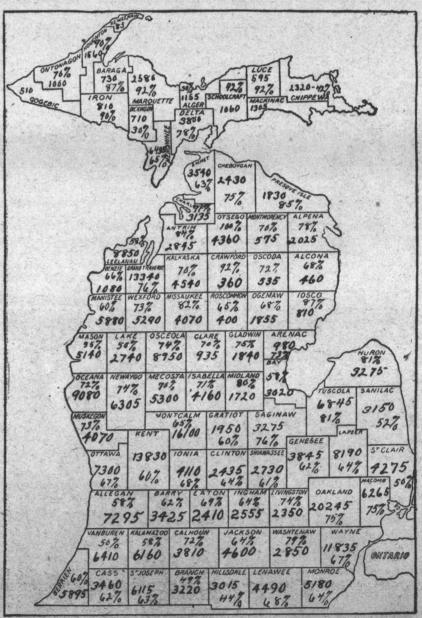
ening of its rural life and work.

The farmers who are induced to begin more business-like methods of sell- they had little difficulty in making satmovement because they are convinced price of the products of the community of the profits in it, and encouraged by at home. the powerful influence and interest of best farmers of their community.

real patriots by their efforts to encour- done for farmers of their community.

DEEP obligation rests upon the age cooperative undertakings. They shoulders of country bankers in realize that the more prosperity they communities where farmers are can aid in bringing to their communiconducting cooperative enterprises ties through cooperative movements The bankers unquestionably hold a big the greater will be the volume of busiclub. Happily, many of them have ness going through their banks. Some shown an appreciation of the fact that of these progressive bankers are contheir work in the community as related stantly pioneering new fields for such to the farmer is not merely coupon- effort. Others are doing everything clipping (the making of loans at high within their power to make it unpleasrates of interest) necessary as is that ant for cooperative undertakings to part of their functions. Many times succeed. We have in mind a country the country banker is a better farmer banker in one of the potato growing than a lot of men on the land. Very communities or northern Michigan who frequently he has come from the farm, recently refused to accept notes signed to achieve yet greater success with the by more than two hundred of the best talents he has manifested and devel- farmers of his community as collateral oped in agriculture. He is in the most for a loan of four thousand dollars to advantageous position to help build up finance a local potato shipping associathe community through the strength- tion. The reason for this refusal was not because the notes of these men were not perfectly good security; for ing their products, as a rule, under- isfactory banking arrangements in a stand its benefits. They need stimula- neighboring community. As a plain tion sometimes; more often perhaps, matter of fact, two of the directors of they need financial aid, and always the bank that refused the loan are acthey are helped by community effort. tively interested in a potato buying Perhaps this one factor is the most company whose methods of doing busipotent in starting these men in the ness are not above suspicion. It is unway they have long desired to travel. fortunate that many country bankers Knowing that by raising funds ade- continue to favor private companies, quate to conduct a business of their whose reputation is not always above own, they will be able to obtain fair reproach, rather than to stand behind prices for their products, understand- community enterprises that seek to ing that the bankers are behind the keep a larger percentage of the selling

In the case of this particular banker their fellow farmers in the undertak- who refused to loan four thousand doling, many men, who have hung back lars to two hundred of the best farmfrom taking the step they believed ers of his community, because they wise, are led easily to enter the ranks were going to embark in a business of those who are out to obtain better that ran opposition to two of his direcprices for their products. They feel tors, we are greatly mistaken if he more secure when they enter such a does not find it more or less difficult to venture backed by their bank and the do business with these red-blooded boys, who are ambitious to do some-Many country bankers have proved thing more and better than has been





# One Farmer's Ideas on Price Fixing

HERE are those who believe that it will be impossible for the proposed Chamber of Agriculture to determine a just and accurate cost price. They cite the fact that in some localities the land is naturally more fertile and would produce crops at a lower price than in other sections, consequently it will be impossible to fix an equitable price.

In one way this is true, and yet the same fact holds in determining the price for all salable products. It is true in determining the price of human labor which is based on the demand or the necessity for food and for other products. Organized labor demands that he who can produce only a minimum shall receive a sufficient compensation to live. Every employer of labor thinks that he pays some men more than they are worth, compared with others, but he does it because he needs the labor of this minimum worker.

A few years ago, while on a trip in the Upper Peninsula, I was told that there were iron mines that were not being operated because the iron was of such low grade that at the price of iron ore at that time these mines could not be profitably worked. These mines are in operation today because the price is sufficiently high to give a profit over operating costs; however, the profit is not learly as great as it is in operating mines of higher grade ore, yet the world needs the iron and is willing to pay a price sufficient to allow a profit to be made from mining the low-grade ore.

The same principle must determine agricultural prices. At the present time if we only farmed the more fertile land there wouldn't be anywhere near sufficient food to meet the demand, hence we must have prices high enough so that practically all available agricultural land can be tilled. No one will argue that you ought to make as large a profit as the man who is more fortunately located on more productive land. This is a thing that is beyond human ability to rectify. If the world needs the food, prices must be fixed for the products of the soil which will enable the farmer on this sort of land to make a living.

So the basis of determining the cost will always be the average cost in producing a necessary amount of food just as it is with the production of iron ore, just as it is with human labor. If the world needs maximum production from all the land then we must have prices which will enable people to make a profit from the poorest land. If the world only needs an amount of food which can be produced without the aid of the most unproductive land then a cost price will be determined that will not allow this land to be operated.

But you say this is nothing more or less than the old law of supply and demand. In a way, yes. But one of the great fundamentals of the proposed Chamber of Agriculture will be to try and direct production in such channels that production is modified to demand. There is no business sense in the people of this country putting in bumper acreage of any one crop if the yields will produce more than the consumers need. There are crops that the land can be devoted to where there would be no danger of an over-supply. Now determining the cost of production would be only one of the functions of the proposed economic organization. It would be eminently proper to advise

(Continued on page 411).

# Cakland SUE VIEW

DARTICULARLY under present conditions can the all-year transportation needs of farm families be well entrusted to the Oakland Sensible Six Sedan. Its exceptional fitness is based on its scientific light-weight construction which makes this Sedan weigh 300 to 500 pounds less than others of similar wheelbase, roominess and completeness. Principally for this reason it is unusually quick, active and economical, affording utmost service at low cost. Further evidence of the high utility value of the Oakland Sensible Six Sedan is noted in its large floor and seating space, permanent pillars, wide doors, efficient heater, and durable fittings.

The high-speed overhead-valve Oakland Sensible Six engine delivers 44 full horsepower at 2600 r. p. m., or one horsepower to every 56 pounds of car weight in this Sedan model. Oakland owners regularly report gasoline returns of from 18 to 25 miles per gallon and records of from 8,000 to 12,000 miles on tires.

OAKLAND MOTOR CAR CO., Pontiac, Mich.

Touring Car, \$1285; Roadster, \$1285; Sedan, \$1860; Coupé, \$1860. F.O.B. Pontiac, Mich. 'Additional for wire wheel equipment, \$75.00

# Meets All Power Requirements Our Farmers Must Save Themselves

(The following address by Ezra Levin, Muck Crop Specialist of the M. A. C., was delivered before the recent meeting of the Michigan Bean Growers' Association at Saginaw and is here published by request of the farmers present at that session).

Experience has demonstrated that this three-plow tractor, with 25 H.P. at belt is the ideal "general utility" tractor for any size farm. Its light weight, simplicity, great durability, ample power and economy give it

The Widest Range of Availability At Minimum Operating Cost

Discriminating buyers are choosing the Waterloo Boy because of its nonstrated success in the hands of users under all conditions; because it is built and fully guaranteed by a responsible manufacturer; because of its dependability in emergencies, unusual fuel economy, and because conveniently located distributors insure prompt and courteous service when needed. Write for free illustrated catalog giving full information

Geo. W. Brending, Milford, Ill., writes: "Your tractor has given complete satisfaction. I plowed seventy acres in eight days with a three-bottom John Deere Plow, did most of my discing with it using two 18 in. wheel discs at all times. Kept close record of operating cost—\$2 per day paid for alf fuel and lubricating oil when doing a full day's work."



Chas. W. Carlson, Strom-burg, Neb., writes: "Your tractor is O. K. It is cheap to

JOHN DEERE, 4603 W. Third Ave., Moline, Ill.

An Imitation-be it Ever so Good-is Still

"I purchased one of your Spreaders eight years ago and it has spread all of my manure from 50 head of stock during that time. It has easily paid for itself each year. Any farmer having more than five head of stock cannot afford to be without it unless he is especially fond of spreading manure by hand, which I am not."

C. E. HOUGH. Conn. Hundreds of progressive farmers have written that "the New

Idea Spreader pays for itself every year"—
"the most profitable investment on the farm"—"it
doubles the yield"—"saves its cost"—"couldn't farm
without it"—and other such statements.

These letters mean much to the man who is farming for profit. They are conclusive evidence to any farmer willing to consider the facts. They prove the statements of Experiment Stations and Agricultural Colleges. They prove that you should own a

Registered U.S.Pat.Off.

The New Idea is THE ORIGINAL wide spreading spreader, the machine that revolutionized old fashioned methods—that has always been the leader in quality, improvements and popularity. Has solid bottom with chain conveyors. Pulverizes thoroughly and spreads evenly 5 to 7 ft. wide. Drives with heavy sprockets and chain—no gears. Low down, light draft. Loads and pulls without undue strain on man or team. Saves time and reduces labor.

See your New Idea dealer. He is pretty busy and may not get around to you. Call him up and when you go in, insist on the "New Idea"—the machine you are sure of. If you don't know him, we'll send you his name and a free copy of "Helping Mother Nature," a splendid book on soil fertility. Send your name today.

"I use your Spreader and find it far superior to others in construction, durability and efficiency. durability and efficiency. The manure goes from a third to a halffarther than when spread by hand. It saves at least a third of the time of man and team, not to speak of saving fertilization value by even and wide spreader can soon be made.

spreader can soon be mad to pay for itself."

J. F. P. THURSTON.







To prove that a representative body farm, I repeat, it is true today. of farmers in this state must be formed immediately in order to guide and ter recreation, better churches because inform our leaders who are concerned with shaping domestic and internation. stuff. Let us not dodge that fact. The al policy of the facts of Michigan ag-

Our war has taught us the power of propaganda. You have heard this: "The farmer is getting rich," "the farmer has no help because he is too stingy to pay the price," "the farmer is being petted and pampered, look at the au-This vicious propaganda tomobiles." is passing among the commercial men of our state, not through purposeful antagonism but because of the tragic ignorance of the city man of the farm- er is pulling the freight. er's problems. Our protests usually do not leave our hearts, we have heard the hiss of the venomous snake who cries, "Disloyalty."

perienced them. Your boys and girls has been less than that of the unskilled laborer, you have been fooled by Hun wiped off the earth. the unscrupulous buyers and commission men; the fertilizer, feed and seed problems are still with us, as wheat bought cattle last fall, fed them all they paid for them, as you bean growthe foundation of agriculture, we can see why the structure is in danger of or. It is safe to say that the men on the farms unless farming is made your attention to Arthur Henderson, to pay.

hitching posts will never challenge England. The upheaval is comingthis fundamental statement. As a bus- reconstruction and labor is to exact iness, as a profession, as a life's work, its rights. farming does not pay.

years after he has paid for the farm, of the war industries been assured of his children leave him, for no other

TOST of us know that Michigan reason than that farming does not pay. agriculture was confronted with The farmer who works his own place grave problems before the war. with a hired man today could allow a few sections these may be cloud- his implements and barns to rot away, ed by the favorable season that has leave his land idle, work in the factory just passed, but the fundamental ills in the city, pay his farm interest and which are threatening the future of the depreciation and save more money farming industry are still with us and and be where his children can have a appear exceedingly serious in view of better education and can have the conrecent national and international veniences which his meager income never allowed him to have on the

We do not have better schools, betwe do not get enough money for our economic basis of the future of agriculriculture is the purpose of this address. ture in this state of Michigan is "more money for our product." That was true before the war, when civilization was ambling along at slow freight train speed. As a farmer looks around him he is impressed with the fact that the rest of the world is moving along at express train speed while he is still on the slow freight. A little more looking will prove that everyone else is riding in a Pullman while the farm-

We have all reached the realization that the great war means more than the mere adjustment of territory. A tremendous rumble is being heard throughout the world beneath the roar It is hardly necessary to go into the of cannon, a rumble of a new civilizadetails of our problems. You have extion which has in its wake a better world to live in, a civilization which have left the farm, your labor income can never come unless Germany is defeated and the philosophy of the

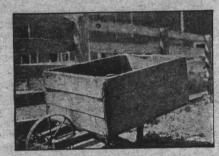
What part, I ask, in this new civilization does the farmer take? Glance sharpers have exacted their toll. Our over the past year and note the importance and power of labor industries. farmers in Michigan, as farmers who Their power has been tremendous; organized, they have used it construcwinter and sold them for less than tively and patriotically for war to the finish by obliterating this monstrous ers who went through last fall's and enemy to civilization. They have been this fall's experience, and as the potato assured that the world will be better growers in Michigan can well testify. to them in the future than it has been Beneath all our-problems, peering at in the past. We see them taking their places in all the allied countries of the world in the politics of nations. Induscollapse, farming is not a profitable trial labor has come into its own, it business. Farming does not pay the has been recognized not only as an inrewards for the same investment, the tegral part of war industries, but has same risks, same education as is paid made its influence felt in international when applied to other lines of endeav-politics in the new civilization. I call your attention to the fact that today farming the farms of Michigan even Gompers, the leader of the American before the war were more than sixty Federation of Labor is on the contiper cent past forty. The younger men nent discussing with allied representawere gone, and they will never return, tives the political aspect of the war, nor will soldiers or sailors which we the common basis upon which workcontemplate placing on farms remain men will fight this great war. I call of the British Labor Party, who has Rest rooms, comfort stations and represented labor in the cabinet of

I wish to point out the presence of Fourteen thousand farmers in the the War Labor Board and the War United States paid an income tax last Labor Policies Board, and the War Inyear. This includes farmers who grow dustries Board in relation to industrial special crops or sell pure bred cattle, labor. The laborer has been urged to and seed farmers who cannot be plac- unionize, he has been asked by the aded in a group of the general farmers ministration to bargain collectively. Very few farmers in His time of work has been defined and Michigan paid an income tax. How, it is now being arranged so that wage then, has he all these things, how does shall be stabilized through the cooperahe live and save? He pinches and tion of these boards. It has been arstarves, he denies himself and family ranged that those employers engaged common conveniences and pleasures in war industries shall be guaranteed for a calculated income of less than a substantial profit, above the interest \$2.00 a day, twelve to sixteen hours, on the investment, above the cost of The wages which his wife and chil- labor, without consideration to the dren earn he saves. At the end of ten price paid. Not only have the owners

(Continued on page 406).

# A Handy Barrow

S TARTING with one iron wheel the poultryman can usually find enough scrap lumber on the farm to build a satisfactory wheelbarrow for use in the poultry houses. On the frame of the wheelbarrow build a box of any desired height, as illustrated in the photograph. The outfit will be handy for removing the litter from a poultry house at cleaning time. It can also be



used for wheeling mangels, cabbage, cut clover or any kind of bulky green food which is to be distributed to the fowls in the laying houses during the winter. In placing the handles on the wheelbarrow, make them of a width which will permit passage through the doors in all the laying houses.

### CORN, SUNFLOWERS AND SOY BEANS.

Having had some experience last year on a large dairy farm, feeding corn, sunflowers, and soy bean ensilage, I decided to try raising them on my own farm last spring.

The field selected was a clover sod. This was plowed early and worked down in good shape. The corn was planted about May 20. This was planted with a hand planter and rowed one way.

As soon as the corn was up nicely, the sunflowers and soy beans were planted. One pound of the sunflower seed and four quarts of the soy beans were planted per acre. These were mixed before planting and then planted with a hand corn-planter, between the hills of corn. They came up quickly, and we soon had prospects for a fine field of ensilage. The frost of June 21, however, blasted our hopes, as the corn was killed to the ground, and some of the soys damaged. The sunflowers alone stood untouched by the frost. Then we had a week of dry, hot weather, during which the corn continued to look dead. The sunflowers, however, made a fine growth. Then, on June 28, came a good shower which started the corn, and soon the field was a thing of beauty.

About the first of August I became convinced that it would be impossible to put up a silo this fall, so was at a loss for a use for my sunflowers, as I was afraid the cattle would refuse to eat them with the cornstalks. However, as the pastures were very poor, I decided to attempt feeding them green. The cattle ate them eagerly, and seemed to do well on them.

The corn and soy beans also did well, some of the corn reaching maturity before frost. The soys made a great growth, many of them being waist high, and loaded with beans. The medium brown variety was used. Some of these were nearly ripe before the frost of September 25 made it necessary to harvest them. The corn and soys were killed by the frost but the sunflowers still stand green and untouched, (October 1), although it has frozen every night since September 25.

I cut the corn and the smaller sunflowers, shocking it up like corn alone, and pulled the soys, leaving them in small piles to cure out. This should make very valuable hay for the cattle. The larger sunflowers I shall leave to feed green until they freeze. The ripe heads will make valuable feed for the poultry flock.

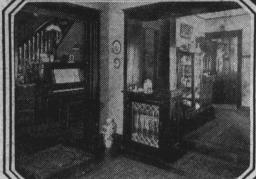
Considering everything, that field is the most profitable one on the entire farm this year. D. D. WOODIN.

Save Fuel and Help Win the War



The Caloric Saves from 35 to 50% Fuel

Real comfortable at all times.



SUN PARLOR

**HITCHEN** 

First Floor

Plan of Mr. Rolf's Resi-

# Heated All Winter with Five Tons of Coal

In Minnesota, where the cold is severe and steady, the Caloric has made thousands of friends. There's good reason for it, too. Take the story of Johan Rolf, who lives at St. James. Mr. Rolf has had only one winter's experience—but we all know what a winter it was! He

"We installed one of the No. 148 Caloric Pipeless Furnaces in our home in November, 1917. Our house consists of eight rooms, one room being on the third floor.

"We have burned only five tons of coal during the last win-and have been real comfortable at all times. None of our ter and have been real comfortable at all times. None of our water pipes were frozen during the winter. Our house, including the bathroom, has been at all times

### As Warm as Toast

"The Caloric combination system of heating and ventilating makes it one of the most healthful and economical appliances in use. As the air passes through the hot radiator many times every twenty-four hours, it is being sterilized constantly.

"We are greatly pleased with the Caloric Furnace and its work, and recommend it highly to anyone wishing real comfort in the home."

Mr. Rolf's experience is equalled by over fifty thousand other Caloric users all over this big country. Each of them was sold his furnace on a guarantee of satisfaction. They have been well pleased, and they

Think of heating an eight room house in Minnesota all winter through with five tons of coal!

Your home, too, may have the same comfort at the same low cost. Let the Caloric solve your heating problem.

The Caloric dealer will be glad to show you this furnace, or we will send you our free catalog, which describes this wonderful advance in heating methods, and the names of users in your section, where you can see for yourself. Write to us today.

Burns coal, coke, wood, lignite or gas.

# The Monitor Stove Company

Established 1819-99 Years of Service

2424 Woodrow Street Cincinnati, Ohio Morley Bros., Saginaw, Mich.

FURNACE Coriginal Patented Pipeless Furnace



Hot

Water

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Frozen Pipes

DINING ROOM

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PARLOR

Whiting-Adams Brushes Awarded Gold Medal, the highest award at Pani



### HELP FEED THE WORLD

on't Waste Grain; but Save it and Produce more Meat, utter and Milk by warming the drinking water for our stock with coal, wood or cobs with a COW BOY TANK HEATER



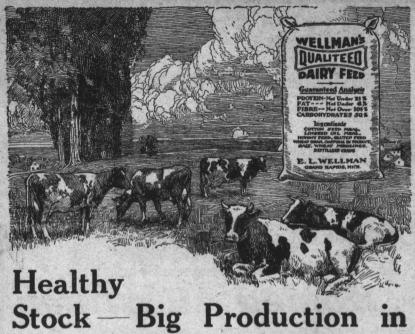
### The SHAW Motorbicycle

I will condition a Horse or Cow in twelve days. Put flesh on its bones. Give it life and vigor. Can add 50% to looks and value. Satisfaction guaranteed or no pay. Send postal for free offer.

P. M. FAUST, BRYN MAWR PA







This Dairy Feed

IT has taken extensive, scientific experimental work with big dairy herds to determine correct rationing. It is an established fact that Health and Condition must come first, Big Production afterward.

## Wellman's DUALITEE Dairy Feed

is the solution of the Dairy Ration question. It is the result of new thought and new feeding knowledge; it eliminates the shortcoming of many old-time feed formulas and feeding ideas. See the guaranteed analysis of Wellman's Qualiteed Dairy Feed on the bag here illustrated. It is a well balanced, high grade feed, guaranteed to keep the dairy herd healthy and make it produce, and it costs less than other high grade dairy feed.

### It's Wise To Order NOW

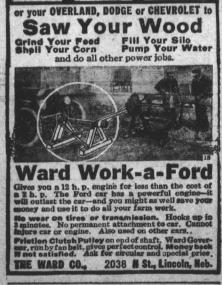
Do not delay ordering your winter's supply. Feed will be scarce. Transportation is not as certain as it used to be. See your feed dealer without delay and tell him how many tons you will want. Give him time to order a car. If he cannot supply you, write us.

E. L. WELLMAN GRAND RAPIDS, MICHIGAN

FEEDING HOGS? THEN HERE IS WHAT YOU WANT!

# D HOG M

Made from the nutritious hearts of corn kernels Write to C. FRANCIS, 909 Ford Building, Detroit, for sample, literature and particulars



Mention The Michigan Farmer When Writing to Advertisers





# Our Farmers Must Save Themselves

(Continued from page 404).

assurance as to their representation in denying himself the common pleasures the future and a promise of solution of and desires. This is what industrial of the biggest risk—the farming business. It has been conducted by cap- to the fundamental consideration, we italizing the patriotism of the farmer must get more money for our produce. of Michigan by appealing to his loyalty Yet we have nothing to compare to the to raise wheat at less than production various boards and committees which cost, potatoes and beans and other have been appointed for adjustment of tragic conditions which confronted us before the war except with the added farmers of this nation to resemble the most significant problem—farm labor shortage.

The farmer is a farm laborer, he is not a capitalist. He works; he is an actual producer. He hires laborers, not only for him but to work with him. What would happen if the farm laborers and hired men would unionize not want a tenant class, now growing and demand their rights, demand a place in conducting their business as has been the case in other industries urged and fostered by the War Labor Board of the administration? Should of the permanent community. they not receive the price of skilled labor, five to ten dollars a day? Are as independent units, if we must pay they not skilled laborers in the most ourselves and our help what they ought essential war industry? How quickly to have, then we must get more money could a machinist become a valuable for our produce. If not, the exodus of farm hand as compared with the time the fine young men and women will that a farm laborer can become a continue—to better fields—better, not machinist.

We have a farm laborer shortage because we cannot compete with other war industries. Our men, not only farm help but farm owners, are leaving their farms to work for the wages that the war industries are paying on a basis of so much profit above your expenses, no matter what they pay their men. Why has there not been an arrangement with us on that basis? scientific facts; there are those who The farmer will be glad to accept the believe that our distributing system of price of an impartial commission which will fix the labor income of the farmer equal to the wage of a machinist, take in consideration interest and food must be raised to the consumer. depreciation upon the capital invested; pay him percentage above his pro. is at stake. There can be no question duction costs in the same manner that but that the proper handling of soils, munition makers receive. Moreover, prevention of diseases, and insect inthe farmer would assume the risk, a jury, pedigreed grains and better risk which is even greater than the methods of distributing by regulating making of munitions. Why should we or eliminating our unnecessary middlebe called upon to subsidize the rest of men and preempting his place by coopthe workers of the United States? The eration and organization will give the fundamental reason for labor shortage farmer a greater income. There may is that we cannot afford to pay the be some question as to making the price. If we are to pay ourselves and consumer pay more for his food. They our help the price they should receive, must all be considered but there can we would have to quit. We have a la. be no question but that the farmer bor shortage because we producers are must get more money for his produce, not getting enough for our product. in order to pay himself a decent living We cannot pay our help enough. That wage, which will allow him to be a is the reason our boys have left the vital, active force in his community.

to do with the farmer? Have we representatives, the proper representatives to present our case? We are also interested in reconstruction, vitally interested. Soldiers and sailors are to be placed on farms; that concerns us. If changes are to take place in the labor conditions in the world, what is to happen to farm labor? Farm laborers

and the state of the

a profit, and labor a high wage and ad- advancement, namely -the accumulajustment of conditions during the war, tion by saving enough to buy a farm. but they have been given by their rec- To guarantee an education for his ognition in the councils of state and children without starving himself or their serious problems to come. These labor will demand. The condition of are facts. Let us add another fact. labor will be better than it has been in We look at ourselves and see the big- the past. If we have not been able to gest, most important basic war indus- compete with industrial labor in the try, the most precarious, the business past, how much less will we be able to do so in the future? It points again farm produce at the mercy of all the industrial labor difficulties and much less have we a representation of the American Federation of Labor who are dictating policy in the offices of the administration, not only national but international policy.

Secretary Lane recently said: "We do not want a peasant class. We want men of supreme self-respect. We do rapidly in this country. We want men who work for themselves, who preserve the values in the soil, who make improvements and who become a part

If we wish to maintain our farms spiritually or socially, but better economically

The problem of the reconstruction in relation to agriculture is here today. How are we to get more money for our produce?

In view of the fact, there are those who believe that it is to be accomplished by a better agriculture, a better system of farming and application of farming is all wrong and that the middleman must be eliminated; there are those who believe that the price of

The future of American agriculture farm. We could not pay them enough, and will be attractive to his boys and What is the new civilization going girls, in comparison to the city opportunities which will be much more attractive after the war than they have been before.

(The second portion of Mr. Levin's article will appear in next week's issue of the Michigan Farmer).

The coming of peace will not add one pound of food to our supply.

Spring Wheat for sale, marquis varnew kind that does well in Michigan,
Farwell, Mich.

Farwell, Mich.

Farwell, Mich.

Farwell, Mich.

Farwell, Mich.

Farwell, Mich.

F the people of the state of Michigan are to realize maximum benefits from the well-directed labors of Prof. C. W. Waid and the agricultural agents of several potato-growing counties in improving the quality of the potato crop, immediate plans must be made to assist in financing the seed potato business. In justice to the progressive farmers, who have gone to extra expense to produce a quality of seed adapted to Michigan conditions, plans must be made to insure them against speculating buyers from other states who are preparing to take advantage of the situation and gain control of next year's supply.

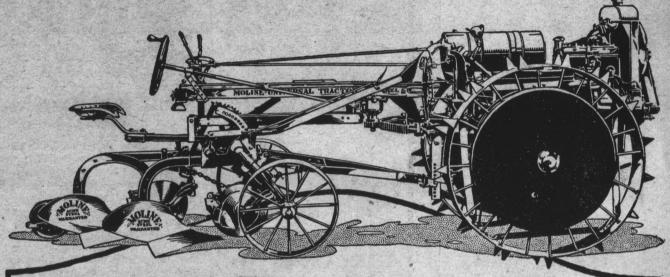
As the potato industry in Michigan develops, the growing of pure seed for home-planting is sure to prove the very life roots of the industry. Discourage seed production and the future of the industry in the state is ruined. Some of the farmers in the northern counties depend upon potatoes for most of the good things in life, and if we neglect to encourage the production of good seed at least one-third of these good things must be sacrificed.

Growing improved seed potatoes certainly sounds like a feasible and attractive business proposition, but like all other new schemes it will have to go through various processes of development before it can be made a safe and dependable business for the farmer who lacks the capital necessary to hold his seed crop until planting time the following spring. More than twothirds of the growers in several of the northwestern counties, who have worked for the betterment of their fellow growers, through growing seed of superior quality, must dispose of their crop at little above table prices unless they can secure substantial loans.

A conservative estimate of the increase in annual yield that might reasonably be expected from the use of high-grade seed in Michigan is certainly not less than twelve and one-half per cent. Such an increase, based on the past five years' production would amount to more than four million bushels, having an approximate value of five million dollars per year. . Then, we must bear in mind that planting pure seed of a given variety not only increases crop yields, but it makes it possible for Michigan potato growers to break into new markets with a quality product for which a premium will gladly be paid. It is the opinion of the leading potato growers and shippers of Michigan that the potato industry will never come to its own until it reaches a vastly higher condition of standardization than it has attained today. To accomplish this the growers of pure seed must be encouraged in every way possible until they are able to develop an organization that will put the business on a safe basis.

The stringency of the money market at the present time renders the proposition of financing the pure seed business far more perplexing than it would be during normal times. Then, too, the fact that so few country bankers are able to assist in building up the agriculture of the communities through acquiring connections with Reserve Banks, which have the authority to loan up to eighty per cent of the value of the potatoes upon warehouse receipts as collateral security, is making it doubly dfflicult for Michigan seed growers to finance their business. In the face of these facts it seems that it would prove sound business policy on the part of the state, through its War Preparedness Board, to set aside funds that could be loaned to country banks so that the money could be made available to loan the growers of pure seed. In this way the farmers of Michigan would be assured of a supply of good seed potatoes for next year's planting.-W. M. K.

# Save the Michigan Buy Your Moline Tractor Now



# **Because:**

You may not be able to get a Moline-Universal if you delay ordering:

You will help relieve spring congestion of shipping by buying now.

You will have plenty of time to become familiar with its construction and operation before the spring rush and will be able to work your tractor in on belt work and other light jobs.

It is the only tractor which does all farm work including cultivating.

One man operates both tractor and implement from the seat of the implement where you must sit in order to do the best work.

Tractor and implement form one unitbacks as easily as it goes forwardturns in a 16-ft. circle.

It has plenty of power for your heaviest work, yet light in weight to operate economically on light jobs. All the weight on two big drive wheels—no dead weight—no extra expense.

Substantially constructed for many years of service.

Electric lights for night work and self starter for non-robust labor.

You can practically double your efficiency --you can produce more food with less help. You will need it, order now.

Write today for full information and name of your nearest Moline Dealer. Address Dept. 42.

Moline Plow Co., Moline, Illinois

# O LINE WERSAL TRACTOR





Lump Jaw
The farmer's old reliable treatment for Lump Jaw in cattle. Fleming's Actinoform Sold for \$2.50 a bottle under a positive guarantee since 1896—your money refunded if it fulls. Write today for FLEMING'S VEST-POCKET VETERINARY ADVISER A book of 197 pages and 67 illustrations. It is FREE. FLEMING BROS., Chemists, 252 Union Stock Yards, Chicago

You can be quickly cured, if you

Earn Big Money Cutting Wood

# WOOL HELD BY GROWERS NEEDED.

SURVEY of the wool situation A shows that there is still an appreciable amount of wool in the hands of growers, particularly in the fleece wool sections. The military needs of the government make it desirable and necessary that this wool be gotten to the wool centers as soon as possible. Farmers who have not marketed their fleeces are being asked and urged by the Wool Section of the War Industries Board to send whatever supplies they may have as quickly as possible, and thereby confer a public benefit in overcoming to some extent at least, the shortage of wool for military pur-

# FEEDING SILAGE OF CORN AND SUNFLOWER.

MR. C. J. THOMAS & SONS, farmers living south of Owosso, have received a carload each of sheep and cattle, the sheep coming from northern Michigan and the cattle from Detroit yards. To this stock the men will feed ensilage containing a liberal percentage of sunflowers. Mr. Thomas, who was the first in the country to raise sunflowers with his corn, declares that these plants contain a large percentage of protein and for this reason make the ensilage much more valuable for feeding. He raised sunflowers for the first time in 1917 and asserts that his milch cows produced more milk with fifty per cent less grain when fed on ensilage containing the sunflowers than they did the year before on the ensilage without the sunflowers. That Mr. Thomas is right may be seen in Henry's comparisons of green sunflower and corn silage as follows:

Corn	Sun-
Silage.	flower.
%	%
Water73.7	76.0
Ash 1.7	2.6
Crude protein 2.1	3.6
Carbohydrates21.7	15.4
Fat 0.8	2.1

### WHEAT SAVING IN "BREAD AND BUTTER STATE."

F DLLOWING the discovery that a million bushels of wheat, valued at more than two million dollars, had been saved as a result of activities of the Food Administration Grain Threshing Division in the state of Minnesota alone, plans are now under consideration for making the work permanent. L. D. Bassett, of the University of Minnesota, proposes annual farm courses in each county to last a week between corn planting and the haying season of 1919.

Mr. Bassett declares it will be possible to retrieve immense quantities of wheat and other grains when the grain producers are thoroughly alert to improved threshing methods which not only eliminate waste but frequently reduce the amount of labor required.

### A BIG ARMY.

D URING the past year a million and a half boys and girls have enlisted in the school garden army, twentyfive thousand acres of unproductive home and vacant lots have been converted into productive land, and hun dreds of thousands of parents have been enlisted in the movement, according to statistics furnished by the school garden commission. Nor is this all, for fifty thousand teachers have received valuable instruction through the booklets sent out, and boards of education and other civic organizations have given financial and moral support to the movement. All this has given the country not only a great store of food, but a great moral and spiritual uplift, according to the authorities of the school garden army.

# Cleveland Tractor



# Machinery Must Replace Muscle

Man-power is at a premium on our farms.

War has taken several million men into the service.

And in spite of these conditions, which are steadily growing worse, there must be more crops produced than ever before.

Machinery must replace muscle.

Thousands of Cleveland Tractors are successfully meeting the labor shortage and the demand for increased production.

The Cleveland Tractor, pulling two 14-inch bottoms in medium soil, plows 3½ miles an hour—eight to ten acres a day. That is all you can expect from three good men with three good 3-horse teams.

The Cleveland travels on its own tracks, laying them down and picking them up again like the famous battle "tanks." It turns around in a twelve foot circle. It gives you 12 horsepower at the drawbar for pulling, and 20 horsepower at the pulley for stationary work. It has 600 square inches of traction surface continually on the ground and will go almost anywhere. It weighs less than 3200 pounds.

But in spite of its power, the Cleveland Tractor is so small that it can easily go under and among small trees.

It will go through ditches, gumbo, sand and gravel, over unused roads, plowed fields and stubble. It will not pack the soil, will not mire or flounder.

Rollin H. White, the famous automotive engineer, is the designer of the Cleveland Tractor. It is produced under his supervision.

He has used only the best materials. Gears are protected by dust-proof, dirt-proof cases.

The track is designed for long service. The sections are joined with hardened steel pins which have their bearings in hardened steel bushings.

You must replace muscle with machinery on your farm.

The Cleveland Tractor offers the means of meeting the emergency.

Write us for detailed information and name of the nearest Cleveland dealer.



# The Cleveland Tractor Co.

19021 Euclid Ave., Cleveland, Ohio









# INTERNATIONAL LIVESTOCK SHOW

Nov. 30th to Dec. 7th Union Stock Yards, CHICAGO

A Food Production Camp in the Service of the United States

Daily Sales of Pure Bred Live Stock.

RED POLLED SALE Wednesday, Dec. 4th, 10:00 A. M. For particulars write H. A. Martin, Gotham, Wis.

POLLED DURHAM SALE Thursday, Dec. 5th, 10:00 A. M. For catalog write J. H. Martz, Greenville, Ohio, ABERDEEN-AUGUS SALE
Wednesday, Dec. 4th 1:00 P. M.
For particulars write Chas. Gray,
Union Stock Yards, Chicago,
SHORTHORN SALE

Thursday, Dec. 5th, 1:00 P. M. For catalog write F. W. Harding, Union Stock Yords, Chicago.

HEREFORD SALE
Friday Dec. 6h, 1:00 P. M.
For catalog write R. J. Kinzer,
1009 Baltimore Ave., Kansas City, Mo.

A season of Instruction in the Art of Breeding and Feeding of Live Stock Economicaly

ANSWER THE NATION'S CALL and put Into Practice The Lessons this Expositon Teaches

Brilliant Evening Shows and A TRIP TO CHICAGO Lowest Rates on all Railroads

As a Human Liniment and Antiseptic for external use it is invaluable.

Every bottle of Caustic Balsam scld 4 Expranted to give satisfaction. Price \$1.76 per bottle. Sold by druggists, or sent by parear post, with full directions for its use. Send for descriptive circulars, testimonials, etc. Address The Lawrence-Williams Co., Cleveland, O.

Caustic Balsam

Has Imitators But No Competitors

A Safe, Speedy, Positive Remedy for

Curb, Splint, Sweny, Capped Hock,
Strained Tondons, Founder, Wind Putts
and Lameness from Spavin, Ringbone
and other bony tumors. Cures skin
diseases or Parasites, Thrush, Diptheria.
Removes Bunches from Horses or Cattle.

As a Human Liniment and Antiseptic for
external use it is invaluable.

Every bottle of Caustie Balsam Scil 48 Wazranted to give satisfaction. Price \$1.75 per

Warranted to Give Satisfaction

Please Mention The Michigan Farmer When Writing to Advertisers

# CAMERAS THAT MAKE MAPS

HE new map in your school geography of Alaska and northwestthe European battle fronts, and of re- years before the advent of the photo- the significant developments was the the idea of using stereoscopic (double) ern Canada; the recent maps of pal centers of interest. Various unique of topographic maps was forecast. paigns. and complicated instruments have

By Earle W. Gage

Though France led in this particular from time to time been devised by the field of thought it was not long before that we are more interested, since mind of man in supplying our need for scientists of other European countries map-making was crude until modern new and accurate maps of the world's began to experiment with the camera. engineers discovered the wonderful United States Geological Survey, who In Germany, Meydenbaur was the lead- utility of this instrument in making ac- in making their survey of Alaskan ter-But the greatest advance in map mak- ing spirit in adapting photographic curate maps. ing was made when it was discovered methods to engineering needs. His some time ago that the plate or film work consisted of devising original ing photography to engineering prac- ions. The latest maps of these regions camera could be used to make maps methods of his own as well as intro-tices is characterized by the develop- were made with this camera. far more accurate; make them quicker ducing those that had been developed ment of the plate camera in connecand more economically, than any other earlier in France. The interest which tion with the theodolite. Instruments airplane and dirigible balloon in Euro-The value of perspectives to engi- ployment of photography for a great these were mainly phototheodolites of development of aerial photography for neering had been recognized many variety of scientific purposes. One of various forms and arrangements. This

mote parts of the world—these were graphic camera, and when in 1839 the adoption by the Prussian general staff photographs instead of single photomade with a panoramic camera. The facts of the discoveries that had been of photography for military surveys. graphy. More than thirty thousand first map made by men was probably made by Niepce and Daguerre were Before 1870 a corps had been organizdrawn upon the sands as he showed presented to the French Chamber of ed and trained in photographic meth- ped by the Canadian government buhis brother man how a certain country Deputies the aid which photography ods, and it assisted in the military oplay, and the distances between princi- promised to bring to the construction erations of the Franco-Prussian cam-

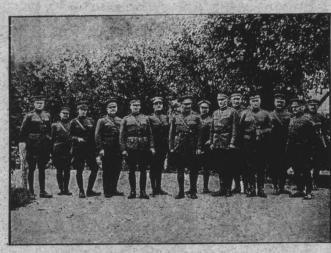
But it is of the panoramic camera

that time E. Deville, surveyor general of Dominion lands, Canada, took up square miles of territory has been mapincluding the International reaus, Boundary Commission and the Geological Survey of Canada, with the camera since this discovery was made.

It was F. E. Wright, and C. W. Wright, brothers, in the employ of the ritory, evolved the panoramic camera The first period of activity in apply- for making maps of mountainous reg-

With the rapid development of the he and others aroused led to the em- of considerable precision resulted, and pean countries came a corresponding

# WORLD EVENTS IN PICTURES



Belgian Leader in Recent Successes (Center) Entertains General Bullard, Commander of American General and Staff.

General Bullard, Commander of American Forces in Argonne District.





British Cavalry Charging Over the Top of a Ridge, Galloping at Full Speed.



Bethune, Once Beautiful and Prosperous, Devastated by Retreating Huns.



All that was Left of a Minnesota Farm Home After the Fire.



British Hospital After a Deliberate Air Raid by the "Peacemakers."



President Wilson Marching in Liberty Day Parade in New York City.

Copyright by Underwood & Underwood, New York

# **Serious Questions Confront** Michigan for Decision in the Next Few Days.

Are the laws made only to control the poor and to be cast out by the rich?

Will the people approve the auction sale of a seat in the United Senate --- "SOLD" to the highest bidder?

The Newberry millions have been known in exclusive circles for forty years, yet Mr. Newberry's campaign managers claim it was necessary to spend \$176,000 to introduce him to the people.

Within fifteen years, Henry Ford by his own ability is known to the entire world—Why? Because he believes that the welfare and happiness of all mankind is the most essential thing in the progress of a nation.

Newberry's managers paid \$176,000 for his nomination—Henry Ford paid not one cent.

Fair wages—The right to live and be respected, is the Ford idea of life.

Think—which of the two types of men would you have to represent you in the U.S. Senate?

John W. Bailey, candidate for Governor, rises from the ranks by his work. Is introduced by his home folks as absolutely fearless, because he has lived his life an honest, honorable man.

He knows no middle ground—and as Governor he would be Governor-not a neutral politician.

President Wilson needs helpers in Congress. If you send the democratic candidates to him you are helping.

PUBLISHED BY DEMOCRATIC STATE CENTRAL COMMITTEE.

(ADVERTISEMENT).

# Hampshire

shire and Oxfords, either sex, send for circular and prices.
KOPE KON FARMS, Kinderhook, Mich.

Hampshires am offering for sale 10 yearling Rams also 5 ram lambs
F. A. SIMMONS, - Rockford, Mich.

Merino and Delaines having size, covering, oily fleeces, quality, rams worth the price, write wants. S. H. Sander, R. 2, Ashtabula, O.

8 Shropshire Ewe Lambs \$200 8 Hampshire Lambs \$320. 8 Hampshire Ewes (bred) \$400. J. M. WILLIAMS, Box G, No. Adams, Mich.

For Sale—Eight Registered Yearling Shropshire rams \$40 each, one thee yr.old at \$60. Sired by Coopers (8120) that was champion at Detroit.
C. V. TRACY, Ithaca, Mich.. Union Phone Union Phone

Shropshires Ram lambs for sale, sired by an imported Buttar ram.

W. B. McQUILLAN, - - Howell, Mich. Howell, Mich.

Shropshire yearlings and ram lambs, one Kope
Kon 2 yr.old ram. All wool-mutton type
G. P. ANDREWS.
Dansville, Mich.

Brookside Farm offers Shropshires of quality, 10

Registered Shropshire yearling and ram lambs with Tanners Royal at the Head. Priced to sell. H. F. MOUSER, R. 6, Ithaca, Mich.

Registered Yearling Shropshire ewes of a quality that give satisfaction. Bred to high class ram. Also strong vigorous ram lambs ready for service. Flock established 1890. C. LEMEN, Dexter, Mich.

Have a few good yearling and ram lambs
Also a limited amount of young ewas.
HARRY POTTER & SON,
Davison, Mich.

FOR SALE Shorpshire Ram lambs 10 bred ewes and 10 Ewe lambs.

ARMSTRONG BROS. R. 3, Fowlerville, Mich. Registered Shropshire Good Quality,
LAKE SIDE DAIRY, Lake Odessa. Mich

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

Reg. Oxford Rams Yearlings and Lambs.
Prices \$50 and \$25. Jas. P.Gibbs & Son, Ithaca, Mich

Reg. Oxford ram lambs; come by auto and take the Choice at \$30 and \$35 fine stock. 2 S. 3 W. St. Johns, J. R. HICKS. Choice Oxford Yearling Rams For Sale
H. B. PETERS. - Carland, Mich

OXFORD Down Ram lambs, also a few ewe lambs Berkshire both sexes. Booking orders for fall pigs CHASE STOCK FARM, R. 1. Marlette, Mich

FOR SALE Oxford Sheep, Yearing lambs.
H. W. MANN, Dansville, Mich.

OXFORDS LAMBS
and yearling rams. O. M. York, Millington, Mich.

Improved Black Top Delaines. Sixty Reg.
NEWTON & BLANK, Hill Crest Farm, Perrinton,
Mich. Farm situated four miles south of Middleton.

Lincoln Rams. 20 choice, reg. yearlings sired by Imp. Swollow Rams. Will sell singly or make special price on lot. R. L. LYBROOK.

Lambs from Western Ewes, fine for feeders.

BARNARD SHEEP KANCH. Clare, Mich.

For Sale Thoroughbred Registered Rambour J. W. GRAHAM, Davisburg, Mich





# News of the Week

Wednesday, October 23.

ALLIED troops reported near Valenciennes, despite desperate enemy resistance. British troops take positions on the Scheldt river south of Tournai and also villages to the north.—Belgian troops reach the Lys canal, French advance in the Laon district.—Enemy brings forward fresh troops to oppose the American lines northwest of Verdun.—Serbians and French operating in Macedonia make satisfactory progress.—The military war council in France will probably dictate President's reply to German's latest note.—Counter revolutions are gaining force in nearly all sections of Russia, although Bolsheviki officials harshly oppose the movements. oppose the movements

Thursday, October 24.

Thursday, October 24.

PRESIDENT WILSON informs Germany that there can be no armistice except on terms that would make it impossible for Germany to renew hostilities; this virtually means the surrender of the Teutonic armies.—Serbians and French are within six miles of the Danube river. They capture 3,000 prisoners at Ipek.—Roumanian government declares all Roumanian ports on the Black Sea and the Danube river closed.—Germans are quitting Ghent.—The west bank of the Lys canal is in the hands of the Allies.—American troops resist strong German attacks and make additional advances northwest of Verdun.—Secretary Baker reports 2,008,931 American soldiers have left this country to participate in the war.

Friday, October 25.

Friday, October 25.

Friday, October 25.

GERMANS stubbornly resist the Allies between Valenciennes and Le Cateau, north of Laon between the Oise and Serre rivers and on the front from Grand Pre to the river Meuse; but in each of these sectors the enemy is retreating. Valenciennes is being gradually enveloped. American and British forces repulse heavy attacks by Bolsheviki infantry against Allied positions on the Dvina river which flows into the White Sea at Archangel. Independence party of Hungary demands immediate independence, a separate peace, the resignation of the present Hungarian cabinet, the dissolution of the alliance with Germany and an independent Slavonian state under a Hungarian king. These demands were made under threat of a revolution if not allowed.

Saturday, October 26.

Saturday, October 26.

HE advance of British, French and THE advance of British, French and American troops south of Valenciennes threatens the whole German line and is forcing the enemy to bring raw troops from the east to bolster up his weakening lines. In this battle 12,000 Germans are reported captured.—In a furious battle near the Meuse, Americans capture advanced positions which firmly fix their position in Belleau woods.—French patrols cross the Danube river, invade Roumania and defeat German detachments. Italians start major offensive on a sixty-mile front along the Piave river; nearly 5,000 prisoners are taken.—Fuel Administrator Garfield refuses bituminous coal miners an increase in wages.—Accordited recovers coal miners an increase in wages.—Accredited representatives of Slavonic countries opposed to the central powers meet in Independence Hall, Philadelphia, to renounce Imperialism and declare themselves in favor of government by and for the people.

Sunday, October 27.

Sunday, October 27.

British make gains south of Valenciennes, force enemy across the Rhonelle river, take 1,000 prisoners and advance two miles in a northwesterly direction.—French forces supported by tanks carry out a vigorous thrust between the Oise and Serre rivers, driving the enemy from several villages.—Americans maintain their positions along the Meuse river, despite violent opposition.—Italian cavalry reaches Bulgarian border fifty miles south of Sofia. A successful assault on Austrians along the Piave river is carried out and 2,000 prisoners taken.—Canadian steamship Princess Sophia with 268 passengers is lost off Alaskan coast in heavy storm.—Eastern cities put clocks back one hour after nearly seven months under the "daylight saving" plan.—Ella Flagg Young, noted educationalist, for six years superintendent of schools in Chicago, and chairman of National Woman's Liberty Loan committee, died of pneumonia following an attack of influenza. Loan committee, died of pneumonia following an attack of influenza.

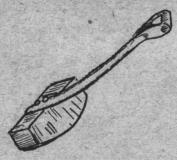
Monday, October 28.

Monday, October, 28.

GERMANY'S answer to President Wilson's latest communication notes the far-reaching changes which the German people have carried out, that peace negotiations are being conducted by a people's government in whose hands rests, both actually and constitutionally, power to make deciding conclusions, and that the German (Continued on page 426).

# Siliage Filling Tool

CALLED to see a farmer friend one day; it was in the fall, and he was busy filling his silo. I looked into the silo, and there were two men tramping the silage down, as it came in from the cutter. I noticed that they had a peculiar tool which they used; I had never seen such before. I have drawn a picture of this instrument, which is shown herewith. I asked



the farmer what its use was. He told me that for quite a few years he had more or less bother with the silage not keeping well around the edges of the inside of the silo, notwithstanding he had given particular instructions that it was to be thoroughly tramped down by the men inside the silo, while filling. So he devised this tool as shown, which each man uses, and as he walks around, although he tramps it with his feet as usually done, he also presses the silage down with this tool, thereby making sure that it all gets forced down. The curved block reaches every part of the wall, where the feet might not get. Since using this means to press the silage down he told me that he has had better "luck" with his silage.

This tool is made by taking a block of 4x4, or 6x6, about twelve to eighteen inches long. Plane off each end of one side, to make it curved to fit the curve of the silo. Put a shovel handle on or stick for handle.-C. E. Richardson.

> ONE FARMER'S IDEA ON PRICE FIXING.

farmers as to the extent of acreage that should be grown in order to keep agriculture on a profitable basis.

That such an economic organization as the proposed Chamber of Agriculture would have complicated problems to solve is not to be denied, but in my judgment it can solve every one of them satisfactorily. What we want is the organization, the machinery to work with, and there are plenty of brains in agriculture today to solve all these problems if these brains can only be organized and concentrated on the subject. But one man or a few men who have the right idea about some subject speaking occasionally to an assembly of farmers, or one man speaking through an agricultural paper occasionally amounts to but little. His ideas are lost. His influence is much lessened because there is no machinery to take these ideas into consideration, to analyze and fix them so that they can be used for the benefit of all agriculture.

In the past, having no organization to work through, the individual farmers have struggled like a balky team. First one would pull, then the other, and in this way they accomplished practically nothing. The result is that the American farmer has sold much of the available fertility of his land and his long hours of hard labor at a very poor price and besides he has thrown in the labor of his wife and children. There is nothing particularly new about the whole idea; it could have been done a hundred years ago, but there has been no machinery to put it into operation. Now it seems to me that a satisfactory organization has been proposed, one that has a broad enough foundation so that the farmer's problems can be analyzed and their merits crystallized into a form that can be used with much effect.

# Under-Secretary of Agriculture Hon. Alex. Holm

In His 1917 Report to the Minister of Agriculture of the Union of South Africa

Says: "Spraying with 'Scalecide' versus Lime Sulphur—One row of 10 Beurre Hardy pear trees which have been regularly sprayed for three years with 'SCALECIDE' as a winter spray, gave a crop this year which exceeded that of the trees sprayed with lime sulphur as a winter spray by 58 per cent.

The 'SCALECIDE' seems to exert an extraordinary stimulating effect on the trees, bringing them into bloom and fruit much earlier than those sprayed with lime sulphur.'

Praise for "SCALECIDE" comes from far and near. Mr. H. O. Arton, also in distant South Africa (Cape Colony), writes: "I would be compelled to use SCALE-CIDE" if it were three times the price."

# CALECIDE"

The Complete Dormant Spray "Makes a Tree Outgrow Its Troubles"

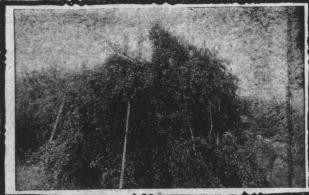
Have you been overlooking the spray that kills the holdover canker which produces twig and fire blight-that controls scale and other insects, including pear psylla, leaf roller, bud moth, case-bearer and aphis?

"SCALECIDE" will do all and more than any other spray or combination of sprays will do. It saves labor, saves time, and saves trees. The use of "SCALECIDE" will make you money. If your dealer cannot supply you, we will. Price always includes freight to your station. Sold on a money back basis. You take no risk. Write today. It will cost you nothing to know the TRUTH. Address Dept. 23.

B. G. PRATT COMPANY

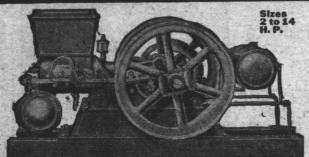
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Eighteen-year-old York Imperials sprayed for 14 years with "SCALE-CIDE," averaging about 30 bushels per tree. This is the eighth consecutive crop, each one of which was larger than the previous crop

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"My little Majestic runs 24-inch saw, cuts wood 8 inches thick and never logged once in zero wea-ther."
MRS. WOODGATE, Michigan.

"The Majestic is a dandy. Cut 3500 feet. of pine in ten hours and ten minutes. It only takes 5 gallons gas per day on this hard work."

C. MORROW,
Minnesota.

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you want in a windmill. The IXL has been made for 64 years and has all of these features.

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Michigan Favorite Cow Peas.
Soy Beans: Ogemaw, Manchu, Medium Green,
Ito San, Black Eyebrow.
Red Clover and Alsyke [free from buckhorn
and mustard].
Garden Peas and Garden Beans.

EDW. E. EVANS, MICHIGAN

# A Letter From President Roosevelt to His Secretary of the Navy

Oyster Bay, Long Island, October 19, 1918

Commander Truman H. Newberry, New York City.

My dear Commander:

I congratulate you on your nomination, but far more do I congratulate Michigan and all our people. It was my good fortune to have you serve under me as Secretary of the Navy, and I can testify personally to your efficiency and your disinterested and single-minded zeal for the public service. To a very peculiar degree you have stood for that kind of government which puts the interest of the people as a whole first and foremost, and treats all other considerations as negligible, when the public weal is involved. The record made by you and your two sons in this war is typical of your whole attitude as a public servant. Both your boys at once entered the Navy, and are now on the high seas. You sought employment abroad; when that was refused you, you accepted any position that was offered in which you could render public service.

The nomination of Mr. Ford makes the issue sharp and clean. It is not primarily an issue between the Republican party and the Democratic party, for Mr. Ford does not seem to have any firm political convictions, and was content to take the nomination on any ticket without regard to what the general principles of the men supporting that ticket were; and his memory about past politics is so hazy that although he has mentioned a Republican candidate for president for whom he thinks he once voted, it does not appear that this is possible, unless he is in error as to his own age.

The issue is infinitely more important than any merely political issue. It is the issue of straight Americanism, of straight patriotism, and of preparedness for the tasks of peace and war, as against a particularly foolish and obnoxious type of pacifism, preached in peace and practiced in war. This is the first time in the history of our country in which a candidate for high office has been nominated who has spent enormous sums of money in demoralizing the people of the United States on a matter of vital interest to their honor and welfare. The expenditures on behalf of pacifism by Mr. Ford in connection with the Peace Ship, and in connection with his great advertising campaign in favor of the McLemore resolution and of the pacifist and pro-German attitude against our participation in the war, was as thoroughly demoralizing to the conscience of the American people as anything that has ever taken place. The failure of Mr. Ford's son to go into the army at this time, and the approval by the father of the son's refusal, represent exactly what might be expected from the moral disintegration inevitably produced by such pacifist propaganda. Mr. Ford's son is the son of a man of enormous wealth. If he went to war he would leave his wife and child immeasurably distant from all chance of even the slightest financial strain or trouble, and his absence would not in the smallest degree affect the efficiency of the business with which he is connected. But the son stays at home, protesting and appealing when he is drafted, and now escaping service. Your two sons have eagerly gone to the front. They stand ready to pay with their lives for the honor and the interest of the American people, and while they thus serve America with fine indifference to all personal cost, the son of wealthy Mr. Ford sits at home in ignoble safety, and his father defends and advises such conduct. It would be a grave misfortune to the country to have Mr. Ford in the Senate when any question of continuing the war or discussing terms of peace may arise, and it would be an equally grave misfortune to have him in any way deal with the problems of reconstruction in this country.

Michigan is facing the test, clear-cut and without shadow of a chance for misunderstanding, between patriotism and Americanism on one side, and on the other pacitism, and that foolish sham-cosmopolitanism which thinks it clever to deride the American flag, and to proclaim that it would as soon be a Hindoo or Chainamn as an American. If there should be at any time in the future a Hindoo Senate, and it should choose, in a spirit of cosmopolitanism, to admit outsiders, there is no reason why Mr. Ford should not aspire to membership therein; but he would be signally out of place in the American Senate so long as that body is dominated by men who zealously believe in the American ideal and faithfully endeavor to serve the American people.

Wishing you all success, I am

Very faithfully yours,

Theodore Roo.

Rossell

(ADVERTISEMENT).

# By the Way"

### CHANGES.

I remember, I remember The house where I was born; The little window where the sun Came peeping in at morn. You'd hardly know the old place now,
For Dad is up-to-date,
And the farm is scientific
From the back lot to the gate.

The house and barn are lighted With bright acetylene, The engine in the laundry Is run by gasoline.
We have silos, we have autos,
We have dynamos and things;
A telephone for gossip,
And a phonograph that sings.

The hired man has left us, We miss his homely face; A lot of college graduates Are working in his place. There's an engineer and fireman,
A chauffeur and a vet.,
'Lectrician and mechanic—
Oh, the farm's run right, you bet.

The little window where the sun Came peeping in at morn
Now brightens up a bathroom
That cost a car of corn.
Our milkmaid is pneumatic, And she's sanitary, too; But Dad gets fifteen cents a quart For milk that once brought two.

Aunt-"My gracious, child! You certainly do eat an awful lot for such a small boy."

Bobby-"Well, Aunt Grace, maybe I am not so little as I look from the outside."

### GLAD TIDINGS.

In a burst of eloquence in denunciation of the world's wickedness, the worthy parson declared:

"Hell is full of cocktails, high balls and peek-a-boo waists."

Voice from the gallery: "Oh! Death, where is thy sting?"

### HE HAD HEARD.

Said the evangelist: "Who is the most perfect man? Is there such a being? •If anybody has ever seen the perfect man let him say so now.'

A small, nervous man rose quietly in the rear of the hall. The evangelist gazed at him in astonishment.

"Do you mean to say, sir, that you know who is the perfect man?"

"I do." "Who may he be?"

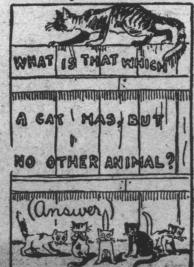
There was a breathless silence as the man replied effectively:

"My wife's first husband."

"What did Rastus get married for?" "Lawd only knows, chile. He keeps right on workin'."

Cousin Bill says:-I wonder if the feller who says a woman ought not to have the ballot because she changes her mind so often, ever tried to change a woman's mind after it was made up?

# Today's Riddle





Reasons why Styleplus Clothes are worn everywhere

Because they are stylish in appearance—designed and tailored by experts.

Because they are built for service—carefully constructed of good materials that can be depended on to wear well.

Because they are moderate in price-enable you to dress well and practice thrift.

Styleplus are manufactured on the standardized plan-a few grades in big volume, with costs reduced and clothing values increased. At the price, each grade is always an exceptional value.

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So make your pick today at the Styleplus Store in your neighborhood.

Two grades in Styleplus suits: \$25 and \$30.

Three grades in Styleplus overcoats: \$25, \$30 and \$35.

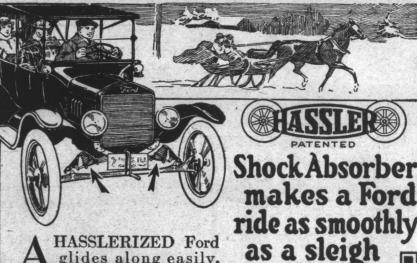
Sold by one leading clothing merchant in most cities and towns. Write us (Dept. Ha) for Styleplus booklet and name of local dealer.

HENRY SONNEBORN & CO., INC. Founded 1849 Baltimore, Md.

# Styleplus Clothes \$25-\$30-\$35

Each grade one price the nation over

America's only known-priced clothes



HASSLERIZED Ford glides along easily, smoothly, swiftly-just

like a sleigh sliding quickly over a firm, even crust. There are no jolts, no jars, no upthrow, no sidesway -practically no vibration. The car is easy to steer, safe to drive. It is just as comfortable as the old family sleigh filled with piles of soft furs.

Secure this comfort at no cost to yourself. Install a set of Hasslers and let them pay for themselves over and over again by adding to your tire mileage, giving you more miles per gallon of gasoline and oil, reducing the number and amount of your repair bills, and increasing the resale value of your car.



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Write today for FREE TRIAL BLANK and we will have a set of Hasslers put on your Ford without a cent of expense to you. Try them 10 days. Then if you are willing to do without them, they will be taken off without charge. Don't ride without Hasslers simply because, someone discourages you from trying them. Accept this offer and see for yourself. Nearly a million of the Patented Hasslers now in use.

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Indianapolis, Indiana

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### MICHIGAN FARMER PATTERNS.

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



No. 2613—Here is a Popular Suit for your Small Boy. Cut in four sizes, 2, 3, 4 and 5 years. Size 4 requires 3% yards of 27-inch material. Price 10c.

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No. 2633—A Smart Junior Suit. Cut in three sizes, 12, 14 and 16 years. Size 14 requires five yards of 36-inch material. Price 10c.

No. 2639—Girls' Dress. Cut in four sizes, 8, 10, 12 and 14 years. Size 12 requires 35% yards of 36-inch material. Price 10c.



PUT the fleecy warmth of Hanes Heavy Winter Weight Union Suits or Shirts and Drawers next to your skin—and, you're fit to face the stiffest blast the North can let fly! Get the friendly hug of the elastic knit, long-fibre cotton, and prove how perfectly Hanes givesand-takes with every body move-

Realize what Hanes offers you at a popular price: guaranteed unbreakable seams; elastic tailored

collarette that cannot gap; pearl buttons that are sewed on for keeps!
And, behind them all stands Hanes workmanship—perfect knitting, tailoring and finishing-an unbreakable combination!

Illustrated above are Hanes Shirts and Drawers—for many years the American standard at popular prices! Note the snug-fitting, three-button, sateen waistband.

Greatest underwear for boys! Hanes Boys' Union Suits exceed in quality, workmanship and service any boys' underwear we have ever seen. They combine the features of men's union suits with the cosiest warmth.

If your dealer does not have Hanes, write us at once. P. H. HANES KNITTING CO., Winston-Salem, N. C. New York Office, 366 Broadway

Warning to the Trade—Any garment offered as Hanes is a substitute unless it bears the "Hanes" label.

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Pelts. Send for price list and ship to 115-123 West 29th Street (Desk 20), New York MEMBERS RAW FUR MERCHANTS' ASS'N M. F. PFAELZER & CO.





2000 Ferrets They hustle rats and rabbits Price list and booklet mailed free. N. A. KNAPP, Rochester, Ohio

1000 FERRETS FOR SALE 0. J. DIMICK, Rochester, Ohio

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LEARN AUCTIONEERING

WE WANT VETCH. SEND US YOUNG-RANDOLPH SEED CO., Owosso, Mich.

Mention the Michigan Farmer when writing Advertisers

# Auto Traveling Made Comfortable

neau, the baggage and wardrobe of the front seat back. Car is one-

outfit for a touring and camping trip during the last two seasons. The tent at very little expense. It is not at all framework is rigidly bolted together necessary to have such a varied and and stout enough to hold a ton. Not expensive equipment as ours. And we a single wing nut is removed from the would never have secured ours if we bolts, yet the tent and beds can be had been obliged to purchase it out set up in twenty minutes and taken right. The writer himself built a goodly down in ten minutes. The pictures portion of the car and invented and illustrate the car beds inside the tonmade the touring tent, luncheon kit, neau. A single long khaki curtain butrefrigerator, folding dining-table, twin tons on around the bed which extends folding bed for use inside the car ton- from the rear curtain of the car to top



After a Meal at the Michigan State Fair Grounds.

use at various places. When on the inside. road very few people would notice we inside.

The tent floor space is seven by eight feet. Ridge is seven feet high. Bed section is seven feet long and four tested by four two-hundred-pounders through the car floor. It cost less than

trunks, etc. We have a work-room in hundred and thirty-four-inch wheel the basement and have spent many base, and body is built for eight pashours during the middle of many sengers, so that bed does not extend nights working on various things that over front seat. For a Ford car such we had thought out in our mind as a bed should be made to run forward something worth while. Some were to the steering wheel. We made opworth it, and some abandoned before enings in the bed side curtain, one each side and in front, oval shape, The accompanying pictures show the and fitted with celluloid windows and car and equipment on the road and in wire screens, with khaki draw-shades

All these things are home-made. The had so many conveniences for cook- writer's wife helped him make the ing, eating and sleeping any number luncheon kit four years ago, It has up to six adults. Everything is cov- traveled over twelve thousand miles ered or packed in water tight and and never met a single accident. It dust proof cases and duffle bags, and cost only for the three-ply oak, pantado not show much. The entire tent, sote leather for cover, strips of brass, poles, beds and accessories are shown trimmings, plus fifty cents to get them on the right running board. This stuff nickle-plated. Much of the work was is covered with heavy pantasote cov- done cold winter evenings in the warm ers in three sections to keep out dust, basement. The kit contains dishes and mud and water. The end covers are silverware for six persons, including off in the picture to show what is one pint and two one-quart thermos bottles.

The refrigerator is carried in the tonneau back of the front seat on the right side of the car. It is built just feet four inches wide. Beds are spring like the patented ones and melted ice construction and have frequently been drains through a trap and water seal



An afternoon party. Table is fastened to heavy irons bolted to the running-board for carrying tent outfit. Table folds and goes into khaki duffle bag, then all are packed in space back of front seats. Tent at rear is lighted from auto batteries. Gas stove in foreground.

three dollars for material, has been used eight years, and is just as good as new. Ice lasts from thirty to forty hours in the hottest weather. Our ice bill on the road has been usually five, and occasionally, ten cents per day, We buy meat, butter, etc., at some grocery store as we pass through any town in the afternoon, also bread and vegetables, and everything is kept in as fine condition as at home.

When we stop at some farm home, after securing the hearty permission of the owner or his wife, we locate where it is dry, fairly level and shady. The gas stove is unpacked, set up and lighted and water boiling in less than ten minutes. The gas stove has now been used for three seasons, traveled over twelve thousand miles and is good for ten years yet. It cost \$16 and paid for itself the first season. Has three burners, oven, uses gasoline and is generated the same as any house stove. It works on the same principle as a plumber's torch, air pressure, and gives an intense heat. We can make coffee, boil potatoes and fry steak at the same time and have all ready to eat in twenty-five minutes. We had previously tried alcohol and oil stoves, and on one trip tested a wire frame grid, with open fire of charcoal underneath. These were all abandoned ultimately for the gas stove shown in the pictures. When folded it is about the size of a suit case. We wrap it in a duffle bag and carry anywhere most convenient. This accessory is about the only thing of all our camping equipment that we purchased. The rest we made ourselves during odd spells.

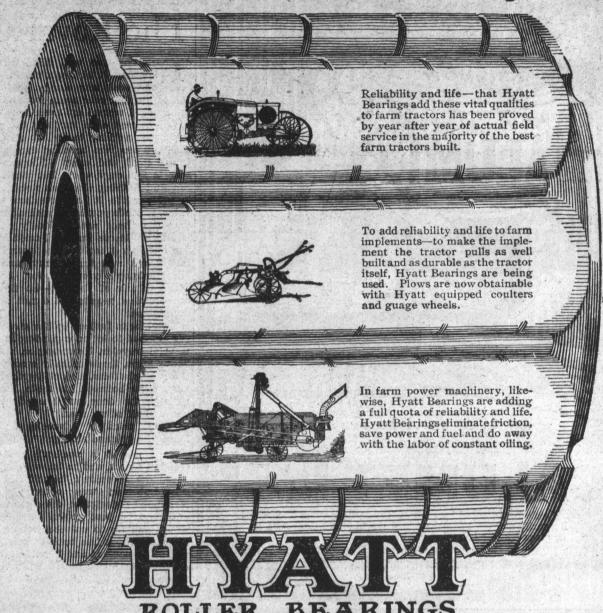
The folding dining-table is made of thin oak, in three pieces twelve by forty inches, hinged together, finished with a paste wood filler and waxed, and cost about one dollar for the lumber and hinges. It is rigidly bolted together, when used, by two iron cross bars, three-eighths by three-quarter inches and long enough to cross the leaves and project to attach to the running-board irons, as shown in the picture. A single center rod leg holds up the outside edge.

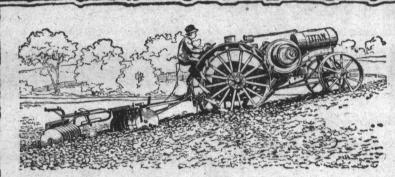
We made the table and did the blacksmith work so that we were very little money out. Table is a mighty handy one and handsome in appearance. Iron work is painted black enamel. Table folds up the size of a single leaf and is enclosed in khaki duffle bag. It slips down in a socket below front edge of tonneau seat out of the way. This accessory would cost \$5.00 to \$7.00 to buy complete these days. Any farmer or his boy could make such a table in one evening, almost. We attach the table to the car running-board in pleasant weather. When it rains, or during cool mornings, we roll up the beds in the tent and set up the table in that section, using the same projecting table irons to rigidly attach to the tent frame, Two folding chairs and two board furnish room for six at one The gas stove is set up in the other half of the tent space and we can cook and eat in solid comfort, no matter if it is cold, or rains.

The car is fitted with hot and cold water supply, faucets, and the cold water tank holds ten gallons of pure water used for cooking, washing hands and dishes, filling the radiator, and loaning to other tourists on the mountains or wherever we meet one stranded with no water in sight and radiator dry and steaming. We installed all these features at home at odd times, also a complete wiring system for tonneau light, center headlight, pitched down to solve glaring nuisance, extension light for tent, rear headlight, electric fan underneath cowl for cooling feet and legs during hot weather driving, etc. The cost was only for insulated wire, tape, lights, bulbs, etc. We have shown several farmer boys how to fix up their fathers' Ford cars in a somewhat similar manner at little cost.

(Continued on page 419).

# Adding Reliability and Life to Farm Machinery





# When You Buy a Tractor-

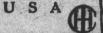
REMEMBER, it's the plows, disks, drills, binders, ensilage cutters, feed grinders, threshers and the like that do your farm work. The tractor is useful only as it furnishes cheap, dependable power for all the other machines.

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When you buy an International kerosene tractor you buy with it the benefit of our long farm machine experience and all the advantages of dealing with a service organization which brings a well stocked branch house or a live, wideawake retail dealer within telephone call of you. It may surprise you to know that an International tractor, plus these advantages, which no one else can give, costs you less per year of active service than any other tractor sold in anywhere near the same numbers. near the same numbers.

International Harvester Company of America CHICAGO





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Pair half soles 50c and heels 25c post paid, Send size of shoes, and pencil outline of exact size of heel.

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# IRONCLAD KHAKI

Twill Cloth

You men and women of his "home guard" should wear this patriotic economy cloth, too. It's fast color and wears like leather.

### OVERALLS, COVERALLS, SHIRTS and PANTS

made of the genuine Ironclad Khaki (the kind Uncle Sam uses) carry the yellow "army" label, like the above. Look for it and Guarantee Bond in the garment before you buy.

Garments on sale by dealers everywhere FRANKLIN MANUFACTURING CO.

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Your name and address on a postcard will bring y free an interesting booklet called "Thirty Feet of Danger," presenting in plain American language the facts every human being should know and act upon in keeping his system clean and healthy. It is sound advice, and it may be the means of avoiding illness for you and your family. A clear statement on the best of medical authority. Write today to

### Nuiol Laboratories STANDARD OIL CO. (NEW JERSEY)

50 Broadway

# Woman and Her Needs

# The Royal Order of Smilers

boarded it at five o'clock. But side needed to be squelched. one of the four rear seats reserved for another, it's mighty cold," he persisted, smokers. I craned my neck in vain to puffing away at his vile cigar. see a vacant spot further front, so "Oh, pardon me," icily. "I didn't see a vacant spot further front, so in price while it has deteriorated in those pockets. value, it sends you home with a feeling "Yes," mused the man right out loud my glooms.

vacant half of my seat.

lady?" he grinned affably.

couldn't object, and he knew I couldn't, parting shot, which hit one hearer of course I couldn't "mind." My as-right between the eyes, he swung off. sent, however, was extremely acid. It's a mighty good philosophy, isn't only see my dark brown mood.

cold September."

Stony silence on my part. That mis- our families but to ourselves. how to get that other front out. Be- things, anyway.

HE car was well filled when I sides, the impertinent person at my

one seat was empty, and that "I said, speaking of one thing and

there was nothing to do but sit down know anyone had been speaking." And with the smokers or cling to a strap. I turned to the window to add up once I was tired and cross. Shopping at more the must have's and deduct the best is not easy work, but when you cost from the capital to see if I could can find nothing that has not trebled manage a school suit and thus evade

that the times are decidedly out of to himself. "It's darn cold, both the joint. My brows knit as I tried to fig- weather and folks. I notice it everyure out how I could make over Dad's where I go. Everybody irritable, nolast year's suit for Johnny, and cut body sociable. Times are hard and down Johnny's overcoat for Bobby, nothing is normal and we're all up The cold air of the car-no fire for against it more or less. But, darn it conservation reasons-did not lessen all, why can't folks grin about it? It wouldn't make things any harder than Two blocks further up the street the they are now for the grinners and it car stopped to let on a ponderous com- would help the other folks a lot. I mercial traveler. He swung on his two ain't made my traveling expenses on heavy grips, threw them in a corner of this trip, but I'm goin' to meet my wife the rear platform, and still gripping a and the kids with a grin, you bet. It'll huge cigar between his teeth, lurched cheer the old girl up, and it won't through the door and landed in the make my commissions any smaller. Here's my corner. Good-bye, every-"Don't mind if I smoke do you, body. You all look like you're going to your own funerals, but you might As I was in a smoker's seat and as well smile over it." And with this

Not that I objected to the cigar really, it? We're all under a terrific strain but that I'd just gotten to the part just now, and the ones who will weathwhere you try to cut the front out of er it best will be the ones who can the side which has both button holes take the traveling man's attitude. and set in pockets and I couldn't figure Scowls and groans and lamentations, out how to avoid Scylla without hit- really only make things worse, for ting Charybdis. The traveling man they add to the general discomfort. didn't know that, however. He could Smiles and jokes won't alter conditions but they will change our mental atti-He was cheer itself, though, this tude, which, after all, is the thing that makes our life. Probably there never "Speaking of one thing and another," was a time when it was harder for he began affably, "we've had a mighty most of us to be cheerful, but we've got to do it. We owe it not only to

erable pocket would not move even an Let's all line up with this "Knight eighth of an inch, and I couldn't see of the Grip," and pretend we like

# Wanted By a Boy-A Home on a Farm



with a homeless boy.

Just for the period of the war, or home, why not give a free home to a want them. Why not? They are the boy; share its comforts and happiness ones who make the soldiers and the with one of the little fellows that to- sailors and the ship builders and the day are homeless?

materials you are helping to make and them in and give them a chance. send over, there is this splendid ser-

One way in which a farmer and his vice you can render to some definite wife can render high-class service to human being who is as important as America today is to share their home any person in all the world-excepting perhaps, the man at the front.

Boys between five and ten years are until the soldiers and sailors come the ones left out. Nobody seems to all-important farmers. Certainly they Besides all the money you are giving are the very most important people, to war relief, besides the Red Cross and yet nobody seems to want to take

Will not the good farmers of Michi-

21 - 417

gan come to the rescue? Write to the Michigan Children's Home Society, St. Joseph office, and say: "We will share our home with one of your boys. We will receive one of the little fellows that nobody wants." Those are the words the boys are waiting to hear.

Then Uncle Sam may be heard to answer: "Inasmuch as ye are helping one of these, my little children, ye are helping me."

### CONTRIBUTED RECIPES.

I am sending you a good recipe for bread. Everyone who has tried it says it is as good as any they ever ate, and we like it better than all wheat bread.

War Bread. 4 cups mashed potatoes

4 cups boiled rice

4 cups rolled oats

2 cups corn meal or corn flour

2 tablespoons of sugar or one cup of corn syrup

2 tablespoons salt.

Put in a large pan and pour boiling water, stirring it until it is thin enough for sponge. After cooling to the right temperature add two and a half dry yeast cakes or one compressed yeast cake. If bread is set in the afternoon, mix in stiff loaf with wheat flour and let raise over night. Mix down and let rise again and put in greased tins, greasing between loaves, and bake in a slow oven until done. In mixing at first make quite stiff, it may stick to the hand. In mixing down the second time and putting in tins, don't put in more flour, use a little flour on hands and board. If wanted, can use about one-third barley flour in place of wheat flour. Can use more rolled oats in place of potatoes or corn meal. The sponge, when thinned, makes good griddle cakes.-I. C.

### CARE OF PILLOWS.

BY MRS. L. M. THORNTON.

"This has been a dreadful autumn," Aunt Elizabeth sighed disconsolately, "No I don't mean the war nor the high cost of living nor the fact that Helen Louise is to be married and leave the bosom of her family," glancing merrily at the latter's blushing face. "When I came here to help you with the making of the last of your wedding finery I had not washed my pillows yet and I don't see how I'm going to get it done. Washing does lighten feathers though, and they won't seem like my pillows if I can't get it done. Every year since I can remember I've given them a good scrubbing in the wash tub and then hung them on the line in the bright sunshine for three or four days, or until they were thoroughly dry."

"Why don't you steam them?" ventured Helen Louise, half afraid that her suggestion would be ridiculed by the elder woman. "I read in a magazine that you make an extra pair of pillow cases. Leave a tiny hole in one end and cut one of the same size in the case that holds your feathers. Sew around these so that you can slip the feathers from one case to the other and then when all are in the clean case sew it up. Fill the boiler half full of hot water, set it over the stove and hang the pillows over the edge just so they are well above the water. Put the cover partially on and steam the pillows until they are smoking hot. Try it-it's delicious. Then hang them out on the line and they will dry in a few hours, or on a line over the kitchen range if necessary. Beat them until they are light and fluffy and the magazine says they will be just as nice as if washed."

"Book ways of doing things, I don't take much stock in," said Aunt Elizabeth. "but that looks reasonable and the hot steam won't leave any germs in your feathers, that's certain."

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# Outdoor Life Builds up Weak Children

and women it is still being carried on. again. According to statistics tuberculosis is carrying off more lives than the great eggs forming the basis of the diet, world war. But it is so quiet, so ever- with meat once or twice a week, fish present, that we lose sight of it in the face of the more horrible and spectacular calamity.

One of the most important of the anti-tuberculosis society's forms of help is the care it gives to children with tubercular tendencies. There are many such children in every neighborhood, boys and girls who, while not actually afflicted with tuberculosis and incapable of giving it to others, yet are inclined towards the disease and liable to suffer from it if not properly cared for. These children are not admitted to the fresh air camps provided for other more vigorous youngsters, and the anti-tuberculosis society in Grand Rapids has for several summers given them a camp of their own at some one of the lakes surrounding

Even the past summer, with all the money that was spent for war work, the society managed to take care of twelve girls and boys. The children are accompanied by a trained nurse and a housekeeper and their health is strictly watched while they are there.

A schedule is laid out, which includes regular rising, breakfast, supervised play, a swim, a cup of milk at

VAR work is taking chief place the simple supper. Then there is geneverywhere these days, and the play or story telling until bedtime, rightly so, for there is nothing which comes early, for plenty of sleep else in the world of so much import. is essential to good health for growing ance. But there is another form of boys and girls. Temperatures are taksocial service which should not be for- en every day and any child whose temgotten, the anti-tuberculosis work, and perature is off of normal is given esthanks to the devotion of a few men pecial attention until he is quite right

Meals are simple, cereals, milk and



Ready for School Again.

and chicken, fruit, fresh, stewed and in jam, and the easily digested vegetables. This summer eggs could not be given so plentifully as formerly owing to their high price and the necessity of making every dollar count, but there was always plenty of milk. The children were weighed when camp opened and when it closed and an average gain of around five pounds was shown. All the children gained except one, who lost eleven pounds, and thus brought down the average gain of the

Regular hours of sleep, plain simple food, with plenty of milk, outdoor air as many hours as possible, and congenial surroundings-these are the things which help to make robust boys and girls. Do your children get them?

A Friend Takes the Boys for a Motorboat Ride.

ten o'clock, and a carefully prepared dinner at noon, followed by a nap. will result. Then more milk on rising, walks, play, nature studies, boating, all sorts of keep them interested and happy until soda before using it.

# What is Sorghum?

Sorghum is not, like molasses, a sugar-house by-product, but an unmixed syrup made directly from sorghum cane by crushing and boiling. The grade and color of the syrup will depend on the making; if the syrup is allowed to caramel or burn on the side of the pan, a dark, strong syrup

Lime is used by some makers to overcome the acidity of the raw juice. healthful games and exercises which Where this has not been done in the will take them out in the open and making, heat the syrup with a pinch of



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# Home Queries

Can any reader of the Michigan Farmer tell me what I can do with my linoleum? It blisters and peels off in one place. The floor at this place is oily. Would that have anything to do with it? I have had this linoleum only since February.-L. B.

Can anyone give help?

Miss Mary A., Gaines:-Write to the Red Cross or War Relief in your nearest city and ask them if they can forward your pillows.

A Farmer's Wife:—I don't just know what you mean by a fruit cocktail made largely of grape juice. "Cocktail" means so many different things in different localities. If you simply want a drink use half grape juice and half ginger ale. If you want a fruit cup to start a dinner use any fruit you can get, diced, chilled and sweetened. This is served in sherbet cups.

### AUTO TRAVELING MADE COM-FORTABLE.

(Continued from page 415). We showed them the principle of ignition, batttery and magneto wiring, and boys generally who drive cars should become more or less familiar with such installation.

One picture shows our camp on the State Fair ground at Detroit last fall. We were located in the boys' state fair school section and there were eight of us. We gave the trip to Detroit and a week's camping on the fair grounds free of all expense to two boys and two girls who were the champions in the junior agricultural clubs of Calhoun county last season.

If we had a small car, and wished to fix up for a trip we would plan to camp out, cook and eat and sleep and have a good time along the Hard pine sticks of the proper length and one and one-half inches square can be used to make folding cots for use on the ground or inside the car. Use heavy ducking or khaki and sew the sides into loops for the sticks to slip through. There are several ways of giving proper tension to the beds. A good tent can be cut out and sewed up at home. Make it of eight or tenounce material. A small packing box makes a good ice box for hot weather and can be carried on the runningboard. Ice costs but little for such a purpose and is mighty handy to have along.

In planning to carry passengers and equipment on a small car be sure to balance up the entire load so as to carry it as nearly equal on all four wheels as possible. As the wheels on the right side of the car in this country are given greater strain when driving on that side of the road and turning out when meeting other vehicles, it is better to carry the greater weight on the left side of the car. A light rear trunk helps dispose of lots of light weight baggage and bedding.

The picture of the tent on the job holding four full-grown persons was taken late at night by flashlight to show the double pullman beds in actual use. State Highway Commissioner Frank F. Rogers, and chairman E. H. Puffer, of the Calhoun county road commission, occupy the lower berth. The location was on the new "monolithic" brick road being built between Marshall and Albion. We were on an inspection trip and stopped right behind the big concrete mixer in the center of the road-bed to camp out for the night. After the writer had cooked supper for the party of six, and time came to turn in, four retired to the tent beds. It was very dark all around but the flashlight revealed existing conditions very clearly.

At best the Allied table will be less than ours, for the Allied peoples are denying themselves more in order to

transport soldiers.

After the war Europe will continue to look to America for help; there will be no crops raised over-night.

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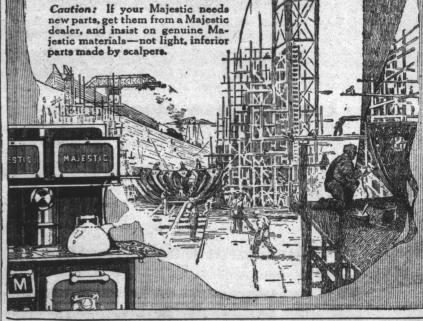
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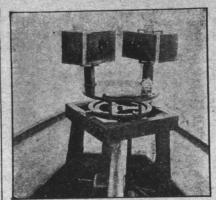
# Cameras that Make Maps

(Continued from page 409).

military reconnaisances and an awakening to the value of aerial photoground, provided the camera can be military character. French engineers endorse the aerial methods of photographic surveying as being both rapid and economical.

It is not commonly realized that a photograph of a plane surface taken with a plate camera directed perpendicularly toward that plane is a map of the area which the photograph embraces. In other words, it is possible to use the camera to produce charts, in the form of negatives, of level ground ,provided the camera can be placed in a position directly above.

Only recently a typographic survey of the island of Tutuila, Samoa, was completed by the hydrographic office of the navy department. For these



surveys a plate camera was employed to obtain double views, and the negatives forwarded to Washington, where experts worked them into accurate maps. An instrument known as the stereocomparator is used to reproduce the map from the picture shown.

The plate camera can be used in taking a limited number of pictures, since each picture is of limited size, and plates weigh too heavily to warrant carrying a sufficient number to photograph from lofty mountain sides of the surrounding country. On the other hand, cartridges for four exposures may be packed in a case weighing five ounces, when the panoramic film camera is used. Three exposures complete the horizon, so that the cartridge has a scope of four hundred and eighty degrees with necessary overlap. In the prevailing type of camera used in surveying, nine plates would be required to embrace the same four hundred and eighty degrees. These would weigh twenty ounces packed, or four times the weight of the film. Two hun dred rolls of film, weighing less than seventy pounds, have been used during a season of about three months. The equivalent weight in glass plates would be about three hundred pounds. And the chance of a plate being broken and the work of days lost is many times as great as that a film will be damaged.

The camera was probably first used from aboard a traveling boat, in making maps, at Prince William Sound, by government engineers. Here the mountains rise abruptly from the water's edge, and their tops reach elevations ranging from two thousand to ten thousand feet. Two plate cameras were used in the work mounted on a stand with gimbal rings to retard the steady chug of the engine, and any movement of the boat.

This survey covered about two thousand square miles of territory and included five hundred and sixty-two miles of stadia. The motor boat was run about two hundred and twenty miles, and two hundred and twenty pairs of photographs were taken during the cruise. The time spent in running was fifty-eight hours. To have accomplished the same feat with former surveying instruments would have been an endless task, requiring several weeks, if not months, and not so accurate a map as resulted.



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Mention The Michigan Farmer When Writing Advertisers

# Humorous Happenings-By G. W. Tuttle

URIOSITY was frank and unabashed in the country. A young man was about to be married and was building a new house, a nest for the bride. She lived in another town and few of the neighbors knew as yet whom he was to marry, and they were saying one to another: "Whom is John H— going to marry?" The carpenter who was building the house was commonly called by his first name-"Solomon."

Well, one Sabbath evening John Hbrought his prospective bride to the little church in the old town, and people stared to their heart's content. Hardly had they settled in their seats before her eyes fell upon the blackboard, and she nudged John, and said: "For goodness sake, see what they have written on that blackboard!" On the board had been written in huge letters, "For whom did Solomon build?"

A neighboring farmer had an experience one day in which the humorous side failed to appeal to him, but which his small son never forgot. This farmer kept a few sheep. It was winter and he had let the old ram out that he might have a little exercise. This farmer stepped out to draw a pail of water from the old well. The incline leading up to the well was slippery with ice. The farmer discovered that his young son and a playmate had dressed in old clothes and were trying to induce the ram-whose disposition was very uncertain-to pursue them.

"Now, boys," said the farmer, "this will not do. You will get hurt if you fool around that ram." As he spoke he started down the incline with his pail of water. The ram came up behind him and-unnoticed by himshook his head threateningly. This was very interesting for the boys and they awaited developments. Suddenly the cunning old fellow charged, the farmer's legs flew out from under him, and he went sliding down the slippery incline. The humor of the incident appealed strongly to the boys, but not to the farmer.

We had many Irish neighbors and humorous happenings and Irish neighbors are inseparable. I remember one Irishman who purchased an adjoining farm. Many things were new to him but he learned rapidly in the school of experience. How the eyes of his wife twinkled as she told us of Phil's encounter with the skunks.

Now, Phil had never read Josh Billings on the polecat. He said: "I don't know why they call it a polecat unless it is because a pole is better to kill it with than a club."

Well, Phil saw two skunks in his field and he undertook to kill them with a club; then, as his wife told us, "Thinkin' it could be no worse, Phil jumped on them and stomped them to death." Phil's memories of the encounter were lasting and fragrant.

Another Irish neighbor owned a small farm but worked most of the time in a small fertilizer factory. He was a slow-motioned man, who smoked incessantly. The foreman of the factory was a wide-awake, bustling Irishman. My father was at the factory one day and was in the room where Pat was sacking ground bone in his deliberate fashion. Just then the foreman came in. "Come, come, Pat," said he, ten tons of bone to sack before night," and out he hurried.

Pat's calm, unhurried manner was unchanged. For a moment or two he worked on leisurely, then he stopped, took his beloved pipe from his mouth, watched the smoke wreaths until they had entirely vanished, then turned and looked at father with a twinkle in his eye, as he said: "Mr. T-, if I work here a bit longer I shall get to be a smart man." Having uttered this prophetic saying he slowly replaced his pipe and turned to his work again; DELCO-LIGHT Increases Farm Efficiency T'S no hardship to do the chores after dark these long evenings if you have Delco-Light. Plenty of bright, clean, safe light, in house, barn Running water everywhere. Electric power to operate the churn and cream separator, the washing machine, the vacuum cleaner and the milking machine. Delco-Light is making farm life attractive and profitable on over sixty thousand American farms.

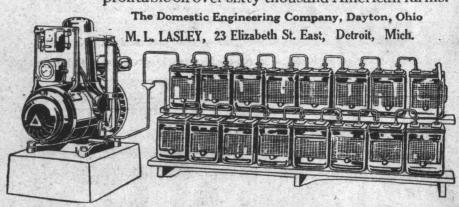
Delco-Light is a complete electric light and power plant for farm or country

It is self-cranking. Air cooled.

Ball bearing.

Has thick plate, long 'lived storage battery. No belts.

RUNS ON KEROSENE





# Is Your Motor Producing or Consuming?

Thousands are running old cars this winter as a necessary measure of loyalty and economy. But it is not necessary to put up with an old car's loss of power and waste of gas and oil.

Renew your old car's power-stop its waste of gas and oil-check its carbon troubles-make it economical transportation by installing a full set of

McQUAY-NORRIS BAK-ROOF PISTON RINGS

They repay their cost many times over in saving gasoline and oil. They increase power, reduce carbon, save trouble, delay and expense.

Send for FREE Booklet—"To Have and To Hold Power"—a simple clear explanation of piston rings, their construction and operation.

McQUAY-NORRIS Superoyl RINGS

A special ring for engines that pump oil. Used in top groove only of pistons to control excess oil, with McQuay-Norris \text{EAMFROOF} Rings in the lower grooves.

Your dealer can get you any size or oversize quickly. Over 300 jobbing and supply houses in all parts of the country carry complete size assortments. If you have any difficulty getting them, write us.

McQuay-Norris Manufacturing Company 2877 Locust St. St. Louis, U. S. A.

### MIDDLE AGED,

narried farmer to work farm on shares. Hundred and sixty acres under plow. Forty acres wood and pasture land. Fairly stocked with horses, cattle sheep and hogs. Good house and barns. An ambitious alpable hones. man will find this an exceptional apportunity. Write stating age, number in family nend copies of recommends to Box L 112 care of Michigan Farmer.

## Farms and Farm Lands For Sale

\$800 Down Gets 105 Acres, **Building Alone Worth** 

More than whole price asked. On improved road, mile to R. R. town, stores, school, factories, etc. 70 acres smooth, level loam fields, river-watered, whre-fenced pasture, abundant wood, timber, fruit. Good 8-room house, verandas, 50-ft. barn, painted, good condition, other buildings. Immediate sale demanded to settle, \$1900 gets all, \$800 down,easy terms. Details page 25 strout's Fail Farm Catalogue of this and other bargains, many with stock, tool, crops, fitted wood; copy free. E. A. STROUT FARM AGENCY,
Dept. 101, 814 Ford Bidg., Detroty, Mich.

### TO RENT Grosse Pointe Farm

Situate on seven mile road, one block from Elec-tric line. 120 acres with barns, house of nine rooms, bath, gas, electric lights. Excellent for chickens or dairy.

John Wynne, Jr., Detroit, Mich., 721 Ford Bldg., Telephone Main 57

CHOICE Florida Lots and farm locations at Oldsmar, Florida, by Mr. R. E. Oldsfamous automobile manufacturer, 15 miles west of Tampa, on Tampa Bay. Dixie Highway, Seaboard Rallway. Delightful clmate, tropical scenery, low prices, easy terms. Free booklet.

REOLDS FARMS CO., Oldsmar, Florida.

Beautiful modern home, steam heat, 8 lots, expen-from CENTRAL MICHIGAN NORMAL COLLEGE, will sell or trade for small farm, or stock general merchandise. Cooper, Gover & Francis, Mt. Pleasant, Mich.

A good corner property at the junction of West Mich, pike and Chicago Detroit trunkline highway. Splendid location for Garage and supply house or tourist hotel. Price right, cash. bonds, or terms to suit. G. A. WIGENT, Watervliet, Mich.

For Sale Al farm 320 acres Clare Co., Mila first class. 360 per acre. Bargain, owner must sell. FRED MAICHELE, 1324 Majestic Bldg., Detroit

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



# NOW IS THE TIME

to get your new

# E LAVAL CREAM SEPARATOR

WITH butter prices soaring no cream producer can afford to go another month without a New De Laval Cream Separator.

This is true whether you have no separator, or an inferior or halfworn-out machine, or even an old style De Laval.

In cold weather your waste of butter-fat is relatively greater, either with gravity skimming or a poor separator; and at present prices for cream a De Laval would very soon pay for itself out of its own savings.

Order your De Laval now and let it begin saving cream for you right away. Remember that a De Laval may be bought for cash or on such liberal terms as to save its own cost. See the local De Laval agent, or, if you don't know him, write to the nearest De Laval office as below.

# THE DE LAVAL SEPARATOR COMPANY

165 Broadway, New York

29 E. Madison Street, Chicago

### BREEDERS' DIRECTORY.

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

CATTLE.

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

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

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

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

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

Geo. Hathaway and Son, Ovid, Mich.

# **GUERNSEY BULLS**

Eighteen months old and younger, Grandsons of Golden Noble II: free from disease. Guaranteed in every particular and at farmers' prices.
J.L. SNYDER, East Lansing, Mich. J. L. SNYDER,

Ballard Farm Guernseys. 40 head, May Rose and other popular lines of breeding. State tuberlin tested free from disease. Herd bull, son of Don Diavolo of Linda Vista greatest bull of breed. A.R. Cows, bred helfers, helfer calvee and bulls from A. Gams. A price on each individual, take your choice. BALLARD BROS, R. 4, Niles, Mich.

GUERNSEYS must reduce herd, so offer Glenwood breeding also bulls, all stock of A. R. breeding, herd tuberculin tested.

T.V. HICKS. Battle Creek, 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 \$1850 each. His bull calves are booked ahead at reasonable prices. Avondale Stock Farm, Wayne, Mich.

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

Registered Guernseys— that last heifer was sold in first issue, went to Ohio. Another just as good, will freshen this fall-3ow will buy her—she is worth more. 4 years old. Right in every way.

J. M. WILLIAMS, - - No. Adams, Mich.

For Sale Registered Guernsey Bull Calf w. D. KAHLER, Jones, Mich.

For Sale Entire herd of Registered Guernsey JOHN EBELS, 20 head May Rose Breeding R. 2, Holland, Mich

Winn--Wood Herd Registered Holsteins Sire in Service

Flint Maplecrest Boy Who is bred for real production his sire Maplecrest Korndyke Hengerveld is one of the best bred long distance bulls in the world. He or his dam are brother the sister to six cows with records above 1,200 lbs. of butter in one year and ten more above 1,200 lbs. of year. Flint Maplecrest Boys' Dam is Gluck Yassar Belley 1,50.5 lbs. of butter in 7 day, 121 lbs. in 30 days. Butter fat test 5.27, Isithere a reason why Flint Maplecress Boy is not one of Michigans greatest young sires None of his females are for sale until after we test hem. But we have 10 of his bull calves from 2 to 9 month old, with A. R. O. dams which we now offer for sale up to the sale of the

JOHN H. WINN, Inc.

The young bulls we have for sale are backed up by many generations of never pays to keep a poor cow. large producers. Buy one of these bulls, and give your herd a "push". Full descriptions, prices, etc. on request.

McPherson Farms Co., Howell, Mich.



### HOLSTEIN CATTLE

Send for our booklets—they contain much valuable information.

HOLSTEIN FRIESIAN ASSOCIATION OF AMERICA, Box 164, Brattleboro, Vt.

OAK Leaf Farm. Herd sire Lenawee Pontiac Cal-amity King offer Registered Holstein bull calver from A. R. O. cows and the above sire whose dam holds the milk and butter record in the state of Ind. of days milk 786.3, butter \$2.51—315 days milk 23782.3, but-ter 937 775. E. H. GEARHART & SON. R. 4. Marcellus, Mich.

Additional Stock Ads on Page 424



# Does Your Dairy Pay?

The Real Gain Still Greater than Shown Above.

and doubtless they are true only with- and skillful feeding. in a limited range of production when graphical location.

largely due to better cows.

Some Examples.

A herd of ninety-one cows in one as- need is more better cows. sociation produced in one year a total Mr. McDowell made a careful study excellent example of the haphazard as upon breeding," he says. need for anyone to keep such stock.

stamp, and a little further lack of bus- the producer and the consumer." iness would have meant a cancelled stamp. For labor and miscellaneous what his production is, and what pro-

Why Testing Associations Stick.

than twice as much.

ing association are more progressive ducts and surplus live stock. than the average," says Mr. McDowell, Selection, breeding and feeding! "and own cows and farms that are This is the trinity of successful dairy to association work. Certainly the of the cow-testing association.

times as much as cost of production. cow-testing association return many dollars more than they cost. It is encouraging also to know that the cow-If no expenses save the cost of feed testing association records indicate had been considered, one cow that pro- that the large-producing dairy cows duced 450 pounds of butter-fat a year are the least affected by the increased would have shown as much income cost of feeds. Therefore, every dairyover cost of feed as twenty cows be- man should aim to keep all his good longing to the group where average cows, or to place them where they production was 100 pounds. Had all will continue the economical producexpenses been considered, the results tion of human food. Economical prowould have been even more striking, duction can be obtained not only As applied to any particular herd of through careful selection of dairy catcows, the figures are only approximate, tle but through intelligent breeding

And there is no information equal to applied to any group of cows, yet with- the cow-testing records to aid the in reasonable limits of production they breeder in intelligent advancement would appear to hold true of all classes from generation to generation. Of the of dairy cows regardless of breed, age, seventeen daughters of carefully seweight, date of freshening, or geo-lected bulls in one association, sixteen excelled their dams. The bulls were A further study was made of the rec- owned by a local bull association, ords of these forty cow-testing asso- whose members also belonged to the ciations, by Mr. McDowell, to ascer- cow-testing association. On an avertain the cost of roughage to produc- age the daughters of association bulls tion. He found that the records show- produced 1,145 pounds more milk than ed that this cost was about the same their dams, and sixty-three pounds for all groups, regardless of produc- more butter-fat. The average production. The cost of grain was consider- tion of the daughters for the year was ably higher for the more productive 6,919 pounds of milk and 301 pounds cows than for the low producers, but of butter-fat. The record of the highit was much lower per pound of but- est-producing daughter was 410 pounds ter-fat. The increased income, there- of butter-fat, which was 208 pounds fore, though it should be credited to above the normal of her dam. Intellibetter feeding, was evidently more gent breeding was wholly responsible for the better generation. The country may need more cows, but the great

income of \$58 over cost of feed, or six- of the relation of feeding to the milkty-four cents for each cow. When the pail profit end. "Tabulations of asowner sends that herd to the block he sociation records show that production is to be congratulated, for he is an depends largely upon the feed as well farmers who demonstrate to the world hay and corn silage formed a large part that agriculture and live stock breed- of the rations of the cows where ining are unprofitable, because of his come over cost of feed was high. own failure to apply common sense Therefore, while grain is high-priced business principles to his business, and needed for other purposes, the America nor Europe are not so short dairy cow should get a large part of of dairy products that there is any her protein and carbohydrates from legumes and silage. In this way large Mr. McDowell found in a herd of production can be combined with ecocows in another association, the poor-nomical production, and the income est produced only income enough over over the cost of feed can be increased. cost of feed to buy a two-cent postage Economical production benefits both

But how is the dairy farmer to know expenses of all kinds the owner had portion of grain to feed in comparison only the manure, skim-milk, and calf. to this? It is conceded among all It seldom pays to sell a good cow; it practical dairymen that the feeding of concentrates to dairy cows should be based on known production. The farm-Estimates show that the average pro- er must secure this knowledge through duction of all the darry cows in the a well managed cow-testing association. United States is 160 pounds of butter- Farmers who are too busy to test their fat per year. Mr. McDowell found own cows may, by joining an associathat the average for the cows of the tion, secure competent aid in this forty cow-testing associations was 247 work. As ordinarily conducted, a cowpounds per head per year. This gives testing association is an organization actical demonstration of the profit- of about twenty-six dairy farmers who ableness of knowing what your cows cooperatively employ a man to test and yourself are doing. The same rec- their cows for economical production. ords show that a production of but 160 The tester not only weighs the milk pounds of butter-fat a year gave the and the feed but he tests the milk for farmer an income of \$23 over cost of butter-fat and assists the farmers in feed, while the average income over feeding their cows according to procost of feed for all the cows in these duction. Often he aids them to organassociations was \$47, or a little more ize for the economical purchasing of feeds in carload lots, and for the effi-"The dairymen who join the cow-test- cient marketing of their dairy pro-

much above the average, but the fine farming. And through no other chanshowing made by association cows nel may this be secured so economicalshould be credited, in large measure, ly and certain as through the agency

# Shipping Broilers

By R. G. KIRBY

N most cities the best market days for broilers seem to be Wednesday and Thursday. If a farmer ships his broilers Wednesday morning to a dealer that can be reached by afternoon this dealer will have a chance to feed and water the stock to make it more presentable for sale the next morning. The retailer can then dress the birds on Thursday or Friday and they will be ready for the Saturday market and the Sunday dining-table.

Most shippers figure about ten per cent shrinkage on broilers during transit and, of course, this will depend much on the weather and the general condition of the birds, also the length of time that they are on the road.

Many breeders lose money on broilers by selling all of them to dealers near home who are not able to pay high prices for such stock because they do not have the demand. It is not much more trouble to ship a crate of broilers at the express office than to carry it to the local dealers. The check soon arrives from the city commission dealer. The crate comes back in due time although that is sometimes after it ought to be due. Some breeders are using one-way crates, which are cheaper than the old style crates and they do not have to be returned. This seems a move in the right direction. Picking up the returned poultry crates has always been a nuisance to the farmer and probably neither the commission men or the express agents like to bother about returning them.

The best crates of broilers are all of one breed and of uniform size. For example, compare a crate of Barred Rock broilers ranging from two and a half to three pounds in weight, with a crate of mixed breeds ranging from one and a half to four pounds. There is absolutely no doubt as to which crate a hotel keeper would be apt to buy for his patrons. The uniform crate would bring the best price and the mixed crate would probably remain until all of the properly graded consignments had been sold.

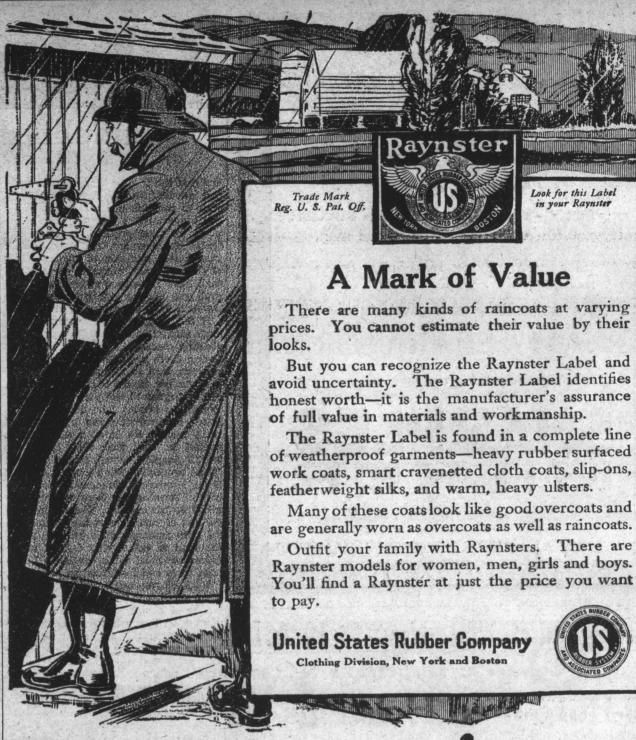
To realize that two kinds of poultry are received in the average city it is only necessary to walk down a street and note the prices quoted on chicken dinners at some of the reasonable restaurants. They get the thin mixed stock that does not bring a profit to the shipper. Then visit any one of the best hotels and note the price asked for a chicken dinner. They deal with commission men who sell them the cream of the poultry that comes from the farms. There is no doubt concerning which kind of trade is the most profitable to the producer.

MORE CARE NEEDED IN SHIPPING EGGS.

BIG improvement has been made A during the past year in the quality of eggs marketed and in their handling on the way to market, but according to reports that have come to the United States Food Administration there is still room for betterment, particularly in the packing of eggs, by

some shippers.

When a man ships eggs, say from lichigan to New York, and uses insufscient packing or second-hand materials he is inviting a heavy loss, the Food Administration points out, and is at the same time violating its regulations. Freight inspectors report that in some cases shippers use second hand fillers and flats, and occasionally newspapers are used for keeping the eggs separated. Often too little or no excelsior is used on top. New materials are sometimes of such poor quality as to afford little protection. In one shipment of eggs packed with these poor and insufficient materials eight out of ten cases were found to contain broken eggs.



# vnster

Increase income—reduce costs! Make your hens lay heavily now while eggs are bringing high prices. Prevent feed waste due to sluggish or imperfect digestion. Make every hen lay by using

# **Pratts Poultry Regulator**

The sure-fire egg-producer which has triumphantly stood every test of nearly a half-

century of general use.

Pratts Poultry Regulator is not a severe stimulant which gives but temporary results. It does not force but induces hens to lay because it builds them up naturally, puts them in such fine physical condition that regular egg-production is bound to follow. And it keeps them laying right through the period of high prices. It assists the birds to thoroughly digest and make use of every particle of food, thus prevents waste and reduces feed costs. Test it with a part of your dock and compare results.

Our dealer in your town has instructions to supply you with Pratts Preparations under our square-deal guarantee—"Your maney back if YOU are not satisfied"—the guar-

antee that has stood for nearly 50 years Write for new Poultry Book-FREE

PRATT FOOD COMPANY

HOGS.

Registered Hampshire spring bears now ready at a bargain. Bred gilts in Dec.
JOHN W.SNYDER, 8. 4, St. Johns, Mich.

### Yorkshire Gilts

(Pigs that are Pigs)
For fall or Winter Breeding. Address
OAKCROFT, R. 7, Pontiac, Mich.

A FEW choice, large type P. C. Spring boars and gilts, also summer pigs.

OLYDE FISHER, R. 3, St. Louis, Mich. L.S.P.C. Get a boar, pig sired by Smooth Jumbo the largest boned boar in the state, also by Big Defender. H. O. Swartz, Schoolcraft, Mich. HORSES

# Horses Will Be Horses Soon

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

### PALMER BROS,

R. R. Orleans, Belding, Mich.

Percharens, Holsteins, Angus, Shrepshires, Durecs DORR D. BUELL. Elm tra. Michigan.

Percheron Stallions and mares of reasonable prices; inspection invited.
F. L. KING & SON. Charlotte, Mich.

Auction Sale of Reg. Perch., Reg. Shorthorns and Duroc Hogs, Tuesday Oct. 29th. write for sale list. J.M. Hicks & Sons, R.2, Williamston, Mich

Sheep ads will be Found on Page 410

# Salesmen

We pay salary to good subscription getters, who can devote their entire time o our work. The offer our salaried men handle is especially attractive to farmers. Address

The Michigan Farmer, Detroit



speed up your milk production

With a Sharples Milker, one man, woman or child can do the work of three men milking by hand. Saves man-power.

Sharples is the world's fastest milker. It is the only milker that squeezes and massages the cow's teats while milking. Increases milk flow.

Write for catalog to Dept. 18.

THE SHARPLES SEPARATOR CO., West Chester, Pa. Sharples Suction-feed Separators-Skim Clean at any Speed. San Francisco

Lansing, Mich. Sat. Nov. 9, 10 A.M. Complete Dispersion

# 60-Pure-bred Holsteins-60

Headed By Model Glista King Segis No. 155346 a 35 lb. Grandson of KING SEGIS

20 cows in calf to him

25 of his daughters

10 fresh cows 5 male calves

Send for Catalog

Farm 2 miles northwest of sugar beet factory Transportation provided, Call North Lansing. Citizens 3826

LUNCH AT NOON

F. L. YOUNG

Col. J. E. MACK

Auctiooner

# The Pontiac Herd HOMESTEAD FARMS

"Where the Champions come from"

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

Pontiac State Hospital, Pontiac, 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 Federation of Interests
Holsteins: From a herd of 50 Holsteins headed by the
Bull King Zerma Alcartra Pontiac, son of King Seris Pontiac Alcarta, the \$50.000 Bull, we offer a number of bred cows and heiters, younger heiters and calves, and young bulls.
One particularly high class young bull now ready
for service.

for service.
If you want Holsteins of any class, will you please write to us for descriptions and photographs?
Every animal guaranteed.
BLOOMINGDALE FARMS, Bloomingdals, Mich.

### HOLSTEINS

5 yearling bulls from A.R.O. daughters of Johan Hengerveld Lad, son of Hengerveld De Rol. Ready for light service this fall. Price \$75 to \$125. Genrida Farms, W. T. Hill R.S. Flint, Mich.

REG. Holstein; Bull calf born Dec. 28, 1917, a splend, a farm work depends now more upon to each branch that is being following. The area of the farm work depends now more upon to each branch that is being following at farm work depends now more upon to each branch that is being following at farm work depends now more upon to each branch that is being following at farm work depends now more upon to each branch that is being following at farm work depends now more upon to each branch that is being following at farm work depends now more upon to each branch that is being following at farm work depends now more upon to each branch that is being following at farm work depends now more upon to each branch that is being following at farm work depends now more upon to each branch that is being following at farm work depends now more upon to each branch that is being following at farm work depends now more upon to each branch that is being following.



# Simplified Farming

(Continued from first page).

we shall have to pay for what we buy, greatly at the end of the season.

made attractive while at the same time carrying the largest possibilities and yielding reasonably good profits to the insuring the greatest returns, crop roowner, there must be a proper balance tation is inevitable. It distributes the between land and equipment. Money labor of the men and teams more regmust be put in the business before it ularly over the year and greatly econcan be organized and placed on a mon- omizes the acreage cost of tillage opey-making basis. The hunger for a erations and is a great aid in settling broad expanse of acres has induced the labor problem. By growing a ramany men to tie up so much of their tional rotation of crops and feeding capital in land that they have not them to stock on the farm it is possiworking capital enough to handle their ble to furnish employment to the same farms properly. The idea that land is number of men the year round and the all-important foundation for suc- place them in cottage homes with their cessful farming has been unduly mag- families. nified in this country. Careful investi- Crop rotation aids in securing and

of the farm, the markets and other change in treatment, for crop rotation. factors surrounding the business. Suit- In organizing the farm some kind of able and comfortable buildings so ar- animal production should be a promiranged and located as to facilitate the nent feature of the farm management. handling of the crops and live stock In the absence of some kind of live are needed on every farm, but all un- stock the excuse for growing a wide necessary expense becomes a constant variety of grass and forage crops is charge upon the business. It is a mis- wanting. Feeding the soil through live

of his capital in buildings. The invention of improved machinery of their fertilizing value returned to has been a God-send to the farmer, but the soil in the form of manure. it cannot be denied that its injudicious Only animals that have the ability plowing and planting in the spring of the animal or its product must alone should precede the introduction of determine the profit.

find that the trouble is beyond our con- head work to handle farm teams and trol as individuals, then we should equipment and waste no time during plan to combine and attack the prob- the day, and the man without some lem cooperatively. The time has come ingenuity is like an engine without a when we must organize not only for balance wheel. It is the man who has social improvement, not only to dis- the faculty of keeping his team and cuss better methods of farming, but implements in working order and vitally, we must organize so that we steadily on the move each day that shall have more to say about what we does the big season's work. The few shall get for our products and what odd minutes saved now and again tell

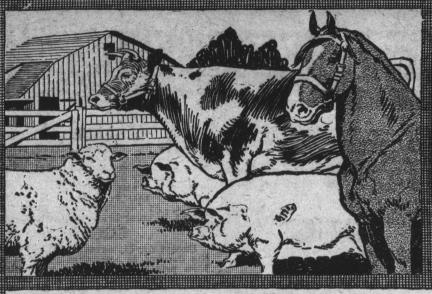
If the farm is to be improved and In organizing a system of farming,

gations of various systems of success- conserving soil fertility. No two plants ful farm management show that when root at the same depth. Many farmers the land is extensively farmed it re- do not appreciate crop rotation as an quires about as much capital in build- aid in supplying plant food and conings, tools and live stock as in land. serving the time of men and teams. A No fixed rule can be laid down as to rational rotation of crops is the basis what shall be the balance between of successful farming. All of the great land and equipment. Much will de- agricultural regions are fairly screampend upon the location, the character ing for intelligent diversification, for a

take for a farmer to invest too much stock makes it possible to secure two profits from farming, besides it in-Farm machinery and equipment creases the fertility of the soil for fubears a close relation to the labor ture crops. It is the only way of eatproblem. By the use of improved maing the cake and having it left. Crop chinery much of the work of the farm rotation is not a sufficient means of may be greatly lessened. Where the building up the soil. It is merely a conditions are favorable it means a re- part of a complex system which induced cost of production, although that volves stock feeding as its compledoes not always follow. If the use of ment. As a business, farming is on a a machine proves but a convenience safer basis when the bulk of the and not a positive reduction of ex-field crops grown on the farm are fed pense, it must be classed as a luxury. to live stock and more than two-thirds

purchase and the needless exposure, as to profitably utilize what is raised on well as the failure to figure up the cost the farm should be kept. The feeding has been a tremendous drain upon the of live stock with no profit other than resources of the farmer. Clearing up the resulting manure is a losing busithe fields by removing stones, stumps, ness. The animal can add nothing to useless fences and trees, and tile the fertilizing ingredients of the food draining the low, wet places that delay it consumes, and the increased value

costly machinery, that the risk of In the first place we must aim to breakage and the delay of planting and produce on our farms those products cultivating be reduced to a minimum. which are best adapted to our location Breaks are expensive, for to the cost and soil. Products which for our giv-of repairs must be added the loss of en conditions will give the largest profvaluable time. A little forethought its. If a man makes a specialty of two and the use of a few days' time will or three crops and studies the kinds of often enable a man to enlarge his soil best adapted to their growth he is fields, remove obstructions and gradu- more certain of success than the man ally get his farm in shape for better who blindly follows the customs of cultivation by improved implements, others. There is such a science grow-Connected with this problem of im- ing up around the growth and perfecproved machinery comes one of the tion of every farm crop that it remost perplexing of farm problems. In- quires continual study and effort to telligent farm labor is becoming ex-keep abreast of the times. Having deceedingly hard to secure. Brains are termined the products we can produce needed to cooperate the varied equip- to the best advantage, we must give ment on a diversified farm, but it pays attention to evolving a system of farmto hire competent men. A man's worth ing whereby due care may be devoted at farm work depends now more upon to each branch that is being followed his ability, wits and speed than upon and harmonize them all into a general



Don't Let Your Stock

Lose their Summer's gain through November neglect

Your animals are now going on dry feed—hay and grain.

It's a big change from the succulent, nutritious grasses of summer pastures which supply the needed laxatives and tonics.

Keep your animals' bowels open and regular—drive out the worms—keep their blood rich—keep their digestive apparatus in order—by feeding Dr. Hess Stock Tonic.

# **A Conditioner and Worm Expeller**

Don't allow your stock to "get off feed" and in a rundown condition.

Dr. Hess Stock Tonic does not take the place of feed but it eliminates waste because it gives appetite, good health and good digestion, and enables animals to get the most benefit out of their feed.

Buy Stock Tonic according to the size of your herd. Here's a suggestion for your guidance: Get from your dealer 2 pounds for each average hog, 5 pounds for each horse, cow or steer, to start with, feed as directed and then watch results.

### Why Pay the Peddler Twice My Price?

You buy Dr. Hess Stock Tonic at an honest price from a responsible dealer in your own town who guarantees it, and who refunds your money if it does not do as claimed.

25-lb. Pail, \$2.25; 100-lb. Drum, \$7.50 Except in the far West, South and Canada Smaller packages in proportion.

DR. HESS & CLARK, Ashland, Ohio



STOC TONIC

Dr. Hess Poultry PAN-A-CE-A

Will Start Your Pullets and Moulted Hens to Laying

# Drhess Instant Louse Willer Wills Lice

### I Always Have Holsteins To Sell

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

C50 Liberty Bond gets 1 mo. old gdson of Maplecrest Korn. Heng.dams are granddaughters of Pontiac Maid 30.21 lb. Heifers same age breeding \$150 terms Herd free tuber. M. L. McLaulin. Bedford, Mich.

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

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

# The Traverse Herd

This is the chance you have been looking for. We will sell a few, good A. R. O. cows. One with 27 IS in 7 and 10.05 in 30 days. Three others above 24 lbs. Come and see them or write for descriptions and prices but hurry for they will go quickly. Also a few bull calves for sale, the kind you will be proud to own. Pediagrees and prices on application. State are desired. TRAVERSE CITY STATE HOSPITAL Traverse City, Michigan.

For Sale Cheap 2 Holstein bull calves, born Jan. 28
For Sale Cheap 2 Holstein bull calves, born Jan. 28
and Mar. 22, both from 29.42 lb. sire. One
from 29.49 lb. 4 years old dam, also a few females.
A. F. LOOMIN. Ownso, Mich.

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

Want Yearly Records?

Our new sire has four sisters whose semi-official records are 677, 742, 913 and 946 pounds of butter in one year respectively at 2 to 3 years of age! His dam is a daughter of Friend Hengerveld De Kol Butter Boy, four of whose daughters have records over 1000 pounds and she is also a granddaughter of Pontiac Aaggie Korndyke, with six daughters above 2000 pounds of butter in one year.

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

For Sale Registered Holstein cow coming 3 years old White, goodbag and teats, easy milker, kind and gentle, sixed by crade of King Forne Segistics of 50 lb. cow. Bred to 31 lb. oking Forne Segistics of 50 lb. cow. Bred to 31 lb. oking Forne Segistics of 50 lb. cow. Bred to 31 lb. oking Forne Segistics of 50 lb. cow. Bred to 31 lb. oking Forne Segistics of 50 lb. cow. Bred to 31 lb. oking Forne Segistics of 50 lb. cow. Bred to 31 lb. oking Forne Segistics of 50 lb. cow. Sy above but, hing Hengerveid Palmyra Fayne the 5th. Price 250, 575, and 385 respectively with all papers. WALNUT STOCK FARMS. Lewis J. Benjamin & Son, R. 1, Clio, Mich.

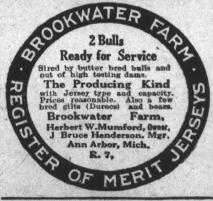
# We Pay Spot Cash for ten or less Holstein Heifer calfs between three and eight months old. Calves must be registered and Tuberculin tested. Write giving full description and price, crated for express shipment. Address Box

### FOR SALE

Ownig to farm house burning down; and help scarce. Too many Jersey heifers, to winter, from 2 mos. to 2 years old, also one youas bull, 10 mos. old, \$50. It's a bargain for some one and have got to sell.

Belding Land & Improvement Co., Belding, Mich.

The Wildwood Jersey Farm. Breeders of Majesty Strain of Jersey Cattle. Average profit per head per entire milking heard last year over out of feed \$92.53 for cream alone. Balls ready for service out of B.of M. dame for sale. Herd free from tuberculosis and abortion. Alvin Balden, Capac, Mich.



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

For Sa'e Choice Jersey bull registered, age 22 months: Strain St. Lambert and Majesty. Markings solid color, black tongue and switch, Reason of sale, related to owner's herd. SEYBURN FARM, R. 7, Pontiac, Mich., Tel.710F4.

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

Maple Lane R. of M. Jersey Herd. Bulls, bull calve Mand heifer calves sired by one of the best grand sons of Pogis 99th of Hood Farm and out of R. of M dams. IRVIN FOX. Allegan, Mich.

1 Young bull, and several helfers bred to freshen next spring. Sired by grandson of Sophie 19th of Hood Farm and from good producing cows. Write for prices or what's better come and see them. Hill Haven Jersey Stock Farm, F. CHAPMAN & SON Props, Vandalia, Mich.

I illside Farm Jerseys, offer Syearling bulls, backe by tested dams, and sired by a double grandson of doyal Majesty, first prize & junior champion at Mich tate Fair, good individuals. U. & O. Deake, ypsilanti, Nic

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

For Sale Registered Jersey Cattle

5 Bulls 9 to 14 months old Prince Don-ald, Farmer and Perfection Fairfax breeding.

ALLEN BROS.,

Paw Paw, Mich.

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

# SHORTHORNS

BIDWELL STOCK FARM, Box B, Tecumseh, Mich.

# Richland Farm

Shorthorns

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

C. H. PRESCOTT & SON.

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

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

Mt. Pleasant, Mich.

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

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

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

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

Shorthorn Bulls ready for service of the choice est breeding. Write me you wants.
A. A. PATTULLO, R. 4, Deckerville, Mich.

Dual Purpose Shorthorns all ages, a ton Roan 3 yr. old herd bull, also Duroc Hogs all ages. CHAS. BRAY, Okenos, Mich. For Sale Shorthorn Bulls of the choicest breeding and ready for service.

Shorthorns 100 head to select from. Write me your wants, price reasonable Rose City, Mich.

For Sale Reg. Red Poll calves of both sex. Cherry King strain.
WILL COTTLE, R. l. West Branch, Michigan

### HOGS

Berkshire spring and fall pigs, both sex. Pairs not akin, prioed to sell, all stock guaranteed B. B. REAVEY. Akron, Mich.

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

## **DUROC BOARS**

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

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

Allendale, Mich.

Pleasant View Durocs Spring boars and gilts of exceptional quality priced right. Inspection invited.

A. BURLINGAME, Marshall, Michi

Duroc Jersey spring boars sired by Orion Cherry King Cal. Write for prices and description. W. C. TAYLOR, Milan, Mich.

CAREY U. EDMONDS. . . Hastings. Mich.

Duroc Jerseys Big heavy boned spring boars winners at State and County Fairs. Place order early. F. J. DRODT, R. 1. Monroe, Mich.

Duroc Gilts and fall pigs sired by E. D's Defender Col. from King The Col. dams, Wayland. Mich

Registered spring Duroc pigs, excellent breeding and individuals. Prices low. R. 2. Dexter, Mich.

Chesters May boars. Sept pigs in pairs of the best blood lines obtainable.

The sept pigs in pairs of the best blood lines obtainable.

Wassar, Mich.

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

OTTO B. SCHULZE. Nashville, Mich. Nashville, Mich.

0.1.C.'s I will ship C. O. D., record free of charge sold in November. F. C. Burgess, R. S. Mason, Mich.

Additional Stock Ads. on Page 427



### SECOND EDITION.

The markets in this edition were revised and corrected on Thursday afternoon, October 31.

### WHEAT.

The wheat movement is large, the increase in the United States visible supply amounting to 5,996,000 bushels for the past week. Exporters are buying this grain freely, with the result that prices this week remain unchanged in the face of heavy selling by the farmers. One year ago No. 2 red wheat sold on the local market at \$2.17 per bushel. Present quotations here are:

No. 2 red. \$2,23½

No. 2 mixed 2.21½

No. 2 white 2.21½

### CORN.

Notwithstanding the fact that in the event of peace the central powers of Europe will be making heavy demands for American grain, corn prices subsided rapidly at the opening this week when new peace notes were sent out by Austria and Germany. This decline took place in face of the fixing of hog prices at 17½c, which would warrant corn prices to go above the present level. The movement of corn has also been interrupted by wet weather and been interrupted by wet weather and lack of cars. The visible supply decreased 448,000 bushels last week. One year ago No. 3 corn was selling on the local market at \$2.19 per bushel. Present Detroit prices are:

### OATS.

Oats borrowed weakness from corn and values declined somewhat although the margin of change was less than for the major grain. Eastern buyers are not taking hold of the trade at present. The visible supply shows practically no change from last week. One year ago standard oats sold locally at 62½ per bushel. Present Detroit prices are:

### RYE.

Farmers are marketing this grain more freely, and the trade is buying moderately. The price shows a fractional advance, cash No. 2 now being quoted on the local market at \$1.64 per bushel.

### BARLEY.

There is improvement in the demand for barley from feeding quarters, and the market is gaining in activity. No. 3 barley is now quoted on the local exchange at \$2.05; No. 4, \$2; feeding grades \$1.90@1.95 per cwt.

BEANS.

Domestic trading in this product is expanding much more slowly than the dealers had anticipated with the result that prices are showing a downward tendency, now that the legumes are moving from producing sections. New York prices show a general decline with the best pea beans now quoted at \$11 per cwt., and the common to fair grades at \$3.50@10.75. The Detroit market rules steady, but very little business is being done. Immediate and prompt shipment are quoted here at \$8.75 per cwt. In Chicago the movement shows more freedom and prices are being held on a steady basis; the Michigan hand-picked beans are selling to jobbers at \$9.50@10.25 for choice to fancy, and \$7 for off stock; red kidneys \$11@11.50. Reported quotations from Michigan country elevators show that farmers are being paid on an \$8.8.50 basis.

BUFFALO.

Cattle.

Receipts 20 cars. Best grades 15@ theavy steers \$15@16; best shipping steers \$13.014; medium shipping stres \$11.012; best native yearlings, 950 to 1000 lbs, \$10.60 lbs, \$1 an \$8@8.50 basis.

excess of demand. Prices show decline from last week. They are:
No. 1 timothy...\$34.00@34.50
No. 1 light mixed 31.50@32.50
No. 1 clover mxd 31.50@32.50
No. 1 clover ... 30.00@31.00

### SEEDS.

Market is firm with red clover higher. Quotations are: Prime red clover, cash and March \$23.25; alsike \$18; timothy \$5.

@1.40 from the wagons. The Cleveland market is steady to slow with Michigan round whites sacked, U. S. Grade No. 1 selling to jobbers at \$2.20; at Buffalo at \$2.20@2.30; at Pittsburgh \$2.20@2.35; at Cincinnati \$2.20 for the bulk. The Detroit market was unchanged on Thursday, with the above grade bringing \$3@3.25 in 150-lb. sacks and \$1.90@2 in bulk per cwt.

### BUTTER.

POTATOES.

In general the potato markets are a little easier. Recent rains have had a tendency to decrease shipments. Total number of cars started in the various shipping states amounted to 662 for Wednesday. Cars moving from Michigan points on that day were 90 in number. In the Greenville section farmers are receiving \$1.50 and at the northern country loading points \$1.25

# Live Stock Market Service

## Reports for Thursday, October 31st BUFFALO.

In selling here today pigs brought \$16.50 and other grades \$18.75. Lambs ranged from \$17.25@17.50 and calves went to \$18.50. The trading in cattle was very slow.

### CHICAGO.

3	ranged from \$17.25@17.50 and calves	Market strong; 75c higher than last	
9	went to \$18.50. The trading in cattle	week.	w
-	was very slow.	Best heavy steers\$13.00@15.00	m
	4 (7 kg) (12 kg/3 (11 kg/3 kg/3 kg/3 kg/3 kg/3 kg/3 kg/3 kg/3	Best handy wt bu steers. 10.00@11.00	O
	CHICAGO.	Mived steers and heifers 8.25@ 9.75	100
	Cattle.	Handy light butchers 7.75@ 8.25	b
	Receipts 25,000. Opening very slow.	Light butchers 7.00@ 7.75	
	Good to prime choice steers steady;	Best cows 9.00@ 9.50	a
	at \$15.75@19.75; others 20@25c lower;	Butcher cows 7.00@ 8.75	PG
е	common and medium butchers \$9.75@	Cutters 5.75@ 6.00	N
Ĭ-	15.75; heifers \$7.25@14; cows \$6.85@	Canners 5.25@ 5.65	1
4	12.75; bologna bulls \$7.25@12.50; can-	Be stheavy bulls 8.75@ 9.25	C
	ners and cutters \$5.90@6.85; stockers	Bologna bulls 6.50@ 8.50	周
	and feeders, good \$10.25@12.75; do,		
	medium \$7.50@10.25.	Feeders 8.50@10.50	
	Hogs.	Stockers 7.00@ 8.50	b
	Receipts 41,000. Market active and	Milkers and springers \$60@ 130	t
n l-	Receipts 41,000. Market active and		C
	mostly 15@25c lower than yesterday. Tops \$18.30@18.45; heavy \$18.15@	Veal Calves.	p
S V-	18.45; mixed and light \$17.90@18.30;	Market steady.	5
+	packers' hogs \$16.75@17.50; medium	Best\$ 17.00	1
2	and heavy \$17.40@17.85; light bacon	Others 7.50@16.00	
2	hogs \$17.50@18; pigs, good to choice		
1.	\$14.75@16.50; roughs \$16@16.50.	Sheep and Lambs.	
it	Sheep and Lambs.	Market strong.	
16	Receipts 31,000. Lambs and year-	Best lambs\$15.75@16.00	V
	Receipts 31,000. Lambs and Jour		
	lings steady to strong; sheep steady. Choice to prime lambs \$16.65@16.85;	Light to common lambs 12.50@13.25	0
	medium and good lambs \$15.0316.65;	Tall to good bitcop	h
	culls \$10@13.25; medium, good and	Culls and common 5.00@ 7.00	
	choice feeders \$13.25@14.75; choice	Hogs,	D
73	yearlings \$13.25@13.75; medium and	Market dull.	N.
O.	yearings \$15.25@15.15, medium and	Pigs\$15.50@15.75	C
g c-	good yearnings \$11.50@15.25, wethers,	Mixed hogs	(
g		Mined Hogo 11.20@11.00	t
14	D	anders Oataban 20th	5
	keports for wean	esday, October 30th	

Market strong.		
Best lambs	\$15.75@16.00	8
Fair lambs		
Light to common lambs	12.50@13.25	4
Fair to good sheep		a
Culls and common	5.00@ 7.00	

# Reports for Wednesday, October 30th

# BUFFALO.

## CHICAGO.

The market shows an easy feeling owing to larger receipts. Detroit quotations are as follows:

No. 1 timothy...\$29.50@30.00
Standard timothy 28.50@29.00
No. 1 mixed ... 24.50@25.00
No. 1 clover ... 23.50@24.00
Pittsburgh.—The tone of the trade here is easier, with receipts now in

ling steers are selling on the basis of \$15@19.60. Very few choice beeves are showing up, and plain and common light steers are moving rather slowly. Butchering cows and heifers are quotable at \$6.65@14.75, canning cows and cutters at \$5.50@6.60 and calves at \$7.50@16.50. Stockers and feeders are active at \$7.25@12.75, but not many go over \$11.75. Western range steers are salable at \$9.50@17, desirable lots being as much as 25c higher this week. Native steers selling at \$10.25@12.50 and are very common.

Hogs.

Wednesday receipts are about 20,000 hogs, making a total of 82,500 for the first half of the week, comparing with 89,307 for the same time last week. Following the recent boom which landed prime hogs yesterday at \$18.85, the ed prime hogs yesterday at \$18.85, the market had a bad break today, with common to prime hogs selling at an extreme range of \$17@18.50, while pigs sold at \$12@16.50, but not many sold anywhere near the bottom price. The light butcher hogs are market toppers, with rough heavy packing sows the lowest.

Sheep and Lambs.

Sheep and Lambs.

Today's receipts are estimated at 16,000 head, making a total of 70,200 for three days, comparing with 77,465 for the same time last week. With steadily decreasing receipts from those of a few weeks ago, the market is active at the recently advanced prices, although the top for lambs is lower than a day or two ago. Lambs are salable at \$11@16.50, yearlings at \$10.75@13.50, wethers at \$9.75@11.75, ewes at \$4.50@10.35, bucks at \$8@8.50. Feeding lambs are on a \$14@15 basis.

### CHEESE.

Recent advances in cheese prices have checked consumption and resulted in a reaction in the market. This is particularly true of the central western markets where prices were recently on a higher basis than at Atlantic points. At Detroit flats are quoted at 36c to jobbers; brick 40c; daisies 36c.

### EGGS.

Except for high-grade new-laid eggs, the demand is somewhat modified by high prices. The limited production, however, is largely responsible for the advanced quotations ruling this week At Detroit candled current receipts are jobbing at 52c; do firsts in new cases 54c; storage packed 42@44c. In New York the trade is firm with fresh gathered extras at 61@62c. The Chicago market is higher as follows: Firsts 53@54c; ordinary firsts 52@52½c; at mark, cases included 52@53c.

### POULTRY.

Heavy receipts have eased off poultry prices and probably will encourage consumption. At Detroit springers are quoted at 29@30c; hens 29@30c; small hens 27@28c; roosters 19@20c; geese 24@25c; ducks 29@30c; turkeys 34@35c. The New York market is weak, with chickens 28c; fowls 28@30c; old roosters 22c; turkeys 32@33c.

### APPLES.

APPLES.

Apple markets continue about steady with supplies fairly liberal and the demand and movement generally slow. On the Detroit tracks Michigan stock, orchard run and of ordinary quality brings about \$2.50 per bbl; No. 1 Jonathans in crates are selling up to \$1.50 per bushel. At Chicago the Michigan Greenings are quoted at \$4.50@5; Northern Spy \$5.50@6; Baldwins \$4.50@5; Jonathans \$6@9.

### DETROIT CITY MARKET

Farmers continue to sell considerable produce on the city markets. Potatoes bring around \$1.30 per bushel; cabbage 50c for white and 75c for purple; carrots 50c; parsnips 90c; beets 50c; apples \$1.10@1.75; onions \$1@1.25; eggs 70c; butter 65c.

### GRAND RAPIDS

GRAND RAPIDS

The quantity of farm products that were brought to the city market last week was less than the week previous, owing to the storm which prevented harvesting. Onions dropped to 40c a bushel by the load, and 50c a single bushel; the crop is being moved fairly well by jobbers in carlots. Last year onions sold on the city market at \$1.25 @1.50 per bushel. Potatoes in this section are sixty per cent out of the ground, and sell at \$1@1.25 per bushel; the larger per cent is still too green for cellar stock. Apple crop harvested except Ben Davis, and practically marketed. A larger quantity of oider is being made this year than ever before. Many of the mills sell at \$@10c per gallon by the barrel. Jobbers in beans quote white at \$8 per cwt. to growers and \$8.50 red kidneys.

### NEWS ITEMS FOR THE WEEK.

(Continued from page 410).
government now awaits proposals for an armistice.—General Ludendorff tenders his resignation which is accepted by Emperor William.—French gain east of St. Quentin, and make a concentric drive on Richecourt, ten miles north of Laon.—Sixty American bombing aeroplanes succeed in bombing enemy troop concentrations in region of Grand Pre.—British occupy Aleppo, Syria, cutting off Turks from their supplies, and periling the entire Turkish forces in Mesopotamia.

Tuesday. October 29.

Tuesday, October 29.

THE Germans yield ground on every front. Field Marshal Haig advances toward Mons and Maubeuge and is outflanking Valenciennes. The French make further advance between the Oise and Serre rivers. Northwest the Oise and Serre rivers. Northwest of Verdun the Americans use big guns to smash the back lines of the enemy fifteen miles distant from the American line positions. In northern Italy Italians aided by British and French force the enemy to fall back and inflict heavy losses, 9,000 prisoners being taken yesterday. Italians also advance in Albania.—Turks are being fast driven out of Mesopotamia.—Eighteen new ships were added to the American fleet during the week ending October 25.

## Should Get Together

T frequently happens that middlemen make a whole lot of money when farmers in different sections of the country find themselves either short or long on feed. This year in many sections of Michigan there is a surplus of roughage, while in other districts farmers have too much stock for the feed on hand.

My business has taken me into a number of districts of this state which I have traveled over very thoroughly. I have observed this fact: Farmers living in the central portion of the state, including Ionia and Gratiot counties, western Saginaw and the north half of Clinton county, have a fine lot of hay but are short on cattle. I understand that it is impossible to secure wire for baling the hay, therefore making it difficult for these farmers to move this surplus to points where it is needed.

Now, I find that in Oceana and sections of adjoining counties quite the opposite condition prevails. The dry weather has resulted in a shortage of hay and fodder, and farmers are obliged to dispose of considerable live stock which they have not the feed to carry through the winter or to prepare for

Now it has occurred to me that if the farmers of these two sections could get together so that those living in the first mentioned district could purchase the cattle from the second district, there would be mutual advantage resulting. Unless this is done, the following procedure will likely take place: The farmers with the surplus of stock will sell to the local drover, who in turn will send the stock probably to Detroit, and the farmers having the surplus of feed will go to Detroit and pay the commission houses a considerable advance over what the original owners of the cattle received to get this same stock for feeding this coming winter. And the extra price paid will represent a dead loss, for no service whatsoever will have been rendered in this case by those handling the animals, excepting, of course, that given by the transportation companies and the greater part of this would be

Therefore I say, if the county agents or other representative persons in these two sections could get together, there would be a distinct saving to the farmers of both communities. Why can't it be done?-LEW STERLING.

# Sort Out the Culls

EMEMBER that more than half R EMEMBER that more than half the potatoes moved this fall will go into storage. Putting your tubers into condition to keep well after they are put into storage qualifies them to sell at prices on the open market that will take care of your tremendously increased expenses for commercial fertilizers, seed and labor. That is why the problem of grading and sorting at harvest time becomes so important. Culls must be kept from the sound, marketable spuds; they must go into storage or else the good marketable stuff will all turn to culls and prices will take a high dive.

As prices advance in the fall cull potatoes become of more importance than firsts. The grower who detects a cull in his crop and who puts that cull where it belongs is helping his association to build up a reputation for Michigan potatoes. The grower who slights this precaution is not only jeopardizing his own interests, but he is making ing his own interests, but he is making it difficult for his association to put Michigan on the potato-growing map. Always bear in mind that efforts of your association to sell Michigan potatoes at higher prices will prove a God-send or a fiasco, depending upon the integrity with which the growers grade and sort the crop before it goes into the cars.

Better results guaranteed! To insure maximum results from work, growth or production, all stock need a tonic. My Stock Powders increase the proportion of flesh and energy animals get from the feed—produce perfect digestion and keep the systems and the second In Surgeon's Robe) toned up and worm-free. As a result, horses do better work, cows yield more milk, hogs make faster gains. Dr. LeGear's Stock Powders (my personal prescription) are the most resultful tonic and conditoner for all domestic animals, both to prevent and cure ailments. The formula for these powders has been carefully worked out from my 26 years' Veterinary practice, and I know they will prove as profitable to you as they have to thousands of stock raisers. Dr. LeGear's Stock Powders put digestion in fine condition, expel worms, make pure, rich blood, and keep animals stronger and healthier all around, because they insure animals getting full nourishment from the feed, and also eliminate tendencies to sickness. They are an excellent remedy for coughs. Dr. L. D. LeGear, V.S. (in Surgeon's Robe), Graduate of Ontario Vet-erinary College (Toronto Can) colds, distemper, kidney troubles, loss of appetite, hide-bound, loss of flesh, etc. You try them at my risk Toronto, Can.), 1892. National-My stock Powders are my own prescription, used with constant success during my twenty-six years of actual practice, and are guaranteed to do all that I claim for them. If they do not really benefit your stock, your dealer is authorized to refund your money. ly famous spec-lalist in treat-ment of stock and poultry. Dr. LeGear's
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Additional Stock Ads on Pages 410 and 427



# Three distinct advantages of the 20 gauge gun

WHAT accounts for the increasing popularity of the 20 gauge shotgun, when only a few years ago the 12 gauge was considered the lightest gun that could be used effectively?

Aside from the fact that shooting with the 20 gauge gun provides keener sport for the hunter, three distinct advan-tages mark the 20 gauge shotgun as an ideal weapon for veteran or novice.

- 1. **Economy**—Ammunition for the 20 gauge gun is less expensive. With results just as effective, this is an important item to many hunters. Ammunition is also lighter to carry. Recoil is slighter.
- 2. Light in weight—The 20 gauge gun is not burden-some to carry. Having superb balance, it is easy to point and quick to handle. You can get onto your game quickly, which offsets any handicap that a quick opening shot pat-
- 3. Does not mutilate—At the range at which most small birds are bagged, the quick opening pattern of the 20 gauge gun does not mutilate the game. Its pattern is sufficiently even to insure a "kill," but you do not find your bird filled with shot, or portions torn away by dense shot

These three advantages make the Winchester Model 12 in both 20 and 16 gauges a big seller to farmers and other sportsmen. Men who have used this gun, with its smooth, reliable action and its perfect barrel, find it difficult to go back to the heavier 12 gauge gun.

### How the barrel is bored

Men who know guns realize that the accuracy and durability of a gun depend primarily upon the barrel. The barrel of the Winchester Model 12 is bored to micrometer measurements for the pattern it is meant to make. The degree of choke exactly offsets the tendency of the shot to spread. Until its pattern proves up to the Winchester standard, no gun can leave the factory. The nickel steel construction preserves the original accuracy forever.

The Bennett Process, used exclusively by Winchester, gives the Winchester barrel a distinctive blue finish that, with proper care, will last a lifetime.

### What (2) means

Look for this mark on the barrel of a Winchester gun. It means that the gun has been subjected to the Winchester

Definitive Proof test. It stamps the gun with Winchester's guarantee of quality, which has 50 years of the best gun making reputation behind it.

Every gun that bears the name Winchester, and that is marked with the Definitive Proof stamp, has been fired many times for smooth action and accuracy. It has also been fired with excess loads as a test of strength. At every stage of Winchester manufacture, machine production is supplemented by human craftsmanship. Every Winchester gun is perfected by the test and adjustment process.

It is this care in manufacturing that has produced the Winchester Model 12, 20 and 16 gauge, and the Model 97, 16 gauge, for those who prefer hammer action. Both shotguns have won the admiration of sportsmen everywhere.

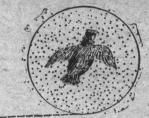
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Detailed specifications of the Model 12 and Model 97, and also our new booklet on shells will be sent on request.

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15 to 25 yards



Most quail, snipe and prairie chickens are killed at 15 to 25 yards. At these distances the Winchester Model 12, 20 gauge shotoun opens up and makes its best pattern—the Jamous Winchester game-getting pattern



30 to 40 yards

Heavier gauge guns do not make their best patterns short of 30 to 40 yards. The 12 gauge throus more shot, but at the range most upland birds are killed, it throws the shot in a more compact cluster... If a hit is made at a lesser distance, therefore, the chances are that the game will be mythated



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