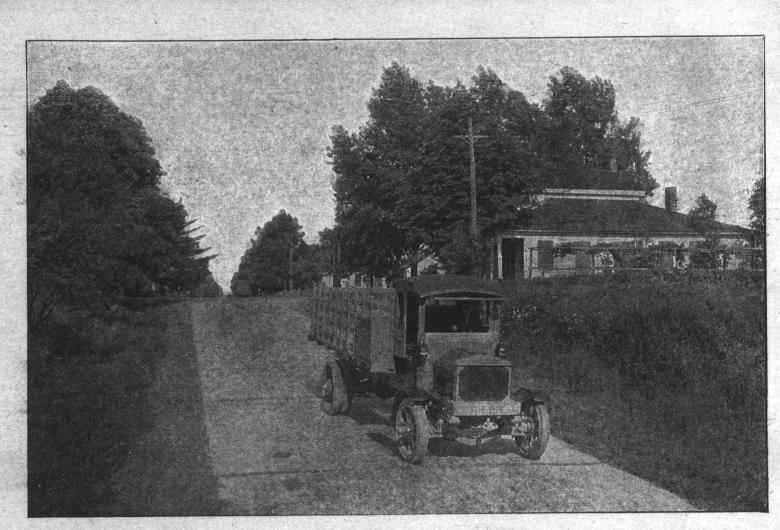


The Only Weekly Agricultural, Horticultural, and Live Stock Journal in the State

WOL. CLII. No. 19 Whole Number 4044

DETROIT, MICH., SATURDAY, MAY 10, 1919

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THE RURAL MOTOR EXPRESS

THE war will be responsible for two great developments in the power field. First, the use of the various types of flying machines in transportation, and, secondly, the development of a motor express line through rural sections. The war has developed thousands of men capable of operating both aeroplanes and motor trucks, and the natural consequence would be for these men to turn their energies in these directions.

Mr. F. W. Fenn, is one of the leaders of the rural motor express idea. Regarding the proposed system he recently said: "For many years hucksters have called on farmers, bargained with them for products and sold to the market at a profit. This was bad for the farmer, because the prices he obtained hardly made it worth while to produce; bad for the merchant, because it added little to the prosperity of the farmer and so kept him incapable of becoming the good customer he ought to have been; and bad for the consumer, because the product of the farmers was insufficient and a lot of material came into town that was unfit for food, as, for example, the decrepit rooster and the disreputable egg.

"It was supposed that railroads carried all the food necessary. We had overlooked the fact that half of our farmers are miles away from a railroad and receive so little encouragement that they produce only what they need for home consumption. Still, it was only when the railroads failed, when embargoes be-

came general, and when the farmer was obliged to waste a great part of what he had raised, that our minds turned definitely toward this newer method of transportation.

"A movement which commands the unqualified support and approval of government officials, merchants and farmers as this one has, must of necessity possess great merit. The rural motor express line is:

"A method of introducing to the market supplies of food hitherto unavailable because of the distance between producer and the market and lack of transportation.

"A method of relieving railroads of short and unprofitable

hauls.

"A method of encouraging business between farmers and merchants by increasing the earnings of the farmer and improving his purchasing power.

"A method of decreasing dissatisfaction on the part of farmers and farm hands by providing increased facilities and comfort for them.

"A method of transporting produce to the consumer more quickly and in better condition than ever before.

"A method of maintaining men on the farms and in producing work who now spend a great part of their time driving to the market

"A method of overcoming in some (Continued on page 732).

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DETROIT, MAY 10, 1919



CURRENT COMMENT

The Soil Fertility Problem

HE soil fertility problem has come to be a pressing one in Michigan as well as in most other sections of the country.

This fact will be impressed upon the careful observer of agricultural conditions in a day's ride through any of the older agricultural sections of the state. Notwithstanding the generally More Sheep excellent condition of the wheat crop, poor stands of wheat are too often in evidence on naturally good wheat soils, been properly met, and that in these cases the yield does not promise to be a profitable one even under the most better test is the generally unsatisfactory outlook for a big hay crop at a time when it is especially needed, due to the failure of clover seedings under fabrics. the unfavorable seasonal conditions of last year.

In striking comparison one will observe an excellent condition of the wheat crop on adjacent farms where the soil has been kept in condition to meet the requirements of the crop under the prevailing favorable seasonal conditions. Likewise good seedings of clover and alfalfa will be seen on farms where the soil has been maintained in a condition to enable these within easy reach would be a profitable manufacture of wool fabrics. investment for every farmer who has

sults under moderately unfavorable a pound for every pound of wool that any pact that surrenders any particle "His life was gentle, and the elements conditions is a warning of a serious is used in the manufacture of fabrics of our sovereignty or gives to any So mixed in him, that Nature might impending soil problem which should used in clothing materials.

combination of representatives of othAnd say to all the world, 'This was a
be heeded, a notable failure of such reWool prices can be maintained only er nations authority to dictate to us man.'"

sults under reasonably favorable con- by an increased use of weel in our our course industrially or gives to any stand up

stand up sults under reasonably favorable con- by an increased use of wool in our our course industrially or in interna-

be neglected for another year or an- in no other way than by using more prospective shortage of labor, and evother hour. Where these conditions wool and less "shoddy." The public is erywhere organized labor is demandare noted an object lesson in one's own willing to pay fair prices for good wool ing higher wages and shorter hours. remedy. In any case, counsel may be of getting such fabrics, so long as the crease this general condition of dissatyet when we are ill we send for the bandry. doctor, and don't hesitate because we have to pay him well for his services, either.

And if our soil shows symptoms of being sick the same course would be just as logical. Indeed, it would be more logical, because the services of the soil doctor in the person of the ment seems to have disappeared. Ev- production may result in a really acute county agent are ours for the asking. erywhere and in practically all indus- food shortage. And we should not forget that he is a man who has had special training along this line, as well as far wider opportunities for observation than we have enjoyed, and that he has a big staff of specialists at his command to help in the solution of any problem which is beyond his own resources.

nothing more.

to lose or even to invest carelessly.

More Wool

mutton situation is

States must produce greater quantities favorable seasonal conditions. A still of wool to make it independent of imdanger of war our national safety depends upon an ample supply of wool

At the conference of the More Sheep inspection that would discourage the of manufacturers and dealers.

At present prices of clothing wool is both. received practical notice of a more or the cheapest factor that enters into its Second.—In my judgment we want In my long life I have noticed that While the failure of satisfactory re- forced to pay from five to ten dollars matters—yes. But we should not sign servant or an animal is a coward.

had without cost by any farmer in any federal government neglects to protect isfaction and unrest by taking advanagent is employed. Most of us are in- forcing their substitutes upon the the enforced cessation of building durour own soil problems and the possi- for the outrageous prices now demand- exorbitant degree, and increased prices bility of remedying them under our ed by the clothing trade for suits con- of necessities following the abandon-

> The Farm Labor Shortage

serious of our re-

ditions is a warning which should not fabrics, and this can be brought about tries there seems to be a present or community may clearly point out the fabrics, but it stands but little chance Greedy landlords have, helped to incounty where a county agricultural it from manufacturers who insist upon tage of the shortage of houses, due to clined to feel that we know more about trade. There is absolutely no excuse ing the war, and increasing rents to an conditions and within our means than taining only a small percentage of ment of government control, have condoes the county agent, who may be a wool. Such prices are doing more than tributed to the difficulties of industrial younger and perhaps less experienced anything else to curtail wool consump- workers. Yet the majority of the reman. The same argument might be tion and discourage the building up of turning soldiers prefer city jobs, even applied with equal force to our bodies, a permanent and profitable flock-hus- those who went into the service from country homes, and farm labor is not only scarce, but absolutely unavailable ONE of the most in anything like an adequate supply.

In the meantime agitation for cheap construction problems er foods continues. A better underis the labor problem, standing of farm labor conditions by The much talked of government officials as well as by urproblem of unemploy- ban dwellers is needed, else shortened

Dangers and Remedies

If you have a soil problem, either of our government. Four years of ple when in our own judgment it is serious or impending, as practically world war, with our active participa- needed and deserved. European naevery farmer has, get into touch with tion for nearly two years, have brought tions, from their peculiar conditions, your county agent and put it up to into the limelight many new and un- may be justified in making alliances him. It will cost you nothing but your tried conditions and influences, the ad- for defense, but America, on account effort and you will be under no obli- justments of which are fraught with of its peculiarly different conditions, gations to follow his advice if you dangerous shoals and treacherous must decline it. For one hundred and don't want to, but the chances are that reefs. But I am thoroughly optimistic fifty years the United States has proyou will have taken a long step to- as to the outcome. I have supreme gressed in civilization, industry, art, ward the solution of the problem by in- confidence in the superior intelligence, science and power through the loving creasing your own interest in it if judgment and moral courage of the patriotic management of its own great masses of our one hundred and people. The solution of the soil fertility prob. ten million of people, our statesmen lem is absolutely essential to a perma- and the press of America to meet the and operation of the great industries nently prosperous agriculture. Labor emergency with the skill and force of this country should be annulled and expended on a preventable crop failure that is needed. There are four policies abandoned at once. Every experiment is labor lost, and under present conditions labor is too valuable a commodity action by congress and appeal to the astrous, not only from a financial point hearty support of the people:

aging feature of tion to law and order, whether Bolshe. nates all individual ambition and curthe present wool and vistic, I. W. W., socialistic or under tails the individual ability which has whatsoever name, must be put down actually produced and matured the eral government is be- sentiment must be aroused to ostracize country. I say turn everything back to ural requirements of the crop have not ginning to realize that a better flocknomic necessity, and that the United form. Teach our people that the only competition and fair rivalry have their safe way to accomplish reforms is swing. through the elective franchise and by ports. So long as there is even remote orderly discussion. There is no logical er a time in the industrial history of basis for antagonism between capital this country when we needed so much and labor. That the employer may be a just and fairly applied protective tarwealth and happiness of those who la- wage scale to labor, but cannot mainand More Wool Association held at bor in his industry, likewise that those tain it against the flood of cheap labor Philadelphia April 30, resolutions were who do the work may have a genuine products that are certain soon to enter passed urging that the federal governinterest in the success of that indus- our markets, without a protective tariff ment encourage flock husbandry by try, is not a mythical millenium but a sufficient to balance the difference in putting in operation a system of wool practical possibility. Adjustment of cost of production. The federal treasdifferences by conciliatory methods ury needs very badly the revenue that use of "shoddy" materials and protect and compromise is a reasonable meth- will be paid in this form much more both wool growers and the public od. There is no class nor social handi- easily and cheerfully than in exorbiagainst misrepresentations on the part cap over the American laborer; with tant taxes. ability, industry and economy the door The time is ripe for the government is wide open for him to advance to of a good American citizen: An indito do something to protect the sheep wealth and industrial responsibilities, vidual who adheres steadfastly to strict plants to withstand the unfavorable industry so that wool producers will As evidence of this, it is safe to state honesty and moral habits; who upweather conditions which hampered be insured of a fair return for their that nine-tenths of the men of great holds absolute truth as the basis of all their normal development last year. wool clip. There is little use of at-There is a valuable lesson in these tempting to build up our flock-husban-ranks of labor. The being who propabelieves that work and constant encarefully study them, and an occasion. carefully study them, and an occasion- late a demand for better fabrics and gates antagonism and bitterness be- gagement in industry is not only a al trip of inspection among the farms discourage the use of 'shoddy" in the within easy reach would be a profitable manufacture of wool fabrics.

7E are passing through a crucial tional relations in peace or war. We period that is destined to test should be ready and willing at all severely the wisdom and form times to help any other nation or peo-

Third.—All government of view, but the communistic ideal is First.—All elements or propaganda, a decided calamity to the industrial THE most encour- with anarchistic tendencies, opposi- progress of our country, as it elimiwith a just but firm hand; and public great industrial development of this

> Fourth.-To my mind there was nevtruly interested in the prosperity, iff. Employers are in favor of a liberal

In conclusion let me define my ideal and considers its violation a crime.

less serious soil problem through the manufacture. And when we stop and no covenant nor alliance with any oth- those who are kind, patient and helpunsatisfactory condition of his crops do a little figuring it is rather puzzling or nations. Industrial treaties—yes, ful to little children are kind and just or through poor average crop yields. to understand why the public should be Agreements as to marine and similar to everybody. One who is cruel to a

Dis MALINMA J. LAWRENCE.

Putting the Wolves Out of Wool

7 HILE the farmer of the United States is jumping from pillar to post about his 1919 wool clip, the Canadian farmer is sitting tight and anticipating his wool profits. Autocratic government control of wool the local wool associations belong, the majority are in means that the syssouth of the line sent 1,400,000 more sheep to the block the first five months riod of the previous year; helpful cooperative wool growers' associations are doubling the sheep flocks on Can- than to shoot farmers in mid-summer erative marketing of any kind," reada's green pastures

between haphazard wool distribution not to imply that Mr. Burrell does not ciation, "is to get in touch with those and business-like methods, retaining believe in bulletins. He does, and his who have the articles for sale. We did the balance of power in the hands of the man who mothers the lambs and clips the wool, rather than placing it in the arms of the operator of the shuttle that weaves the fabric. It's the difference between uncertainty and certainty; the difference between a dying sheep industry and a developing, expanding and profitable one.

But Canadians could not crow very loud eight years ago about their sheep industry. The commission appointed by the Minister of Agriculture, after carefully looking things over from the Atlantic to the Pacific, reported that "from shearing to marketing no country in the world handles its wool in a worse manner." Considerable of a slam at the complacent breeder who thought he was about to step off at the station of Ideal, and as a further compliment, the commission added: "As far as the wool of mutton breeds and cross-breeds go, we do not know of any country where it is handled in such an unsatisfactory manner and delivered in such a bad condition."

After this report, the commission went home, but not to forget. They, under the helpful leadership of the Sheep Division of the Live Stock Branch of the Dominion Department of Agriculture, organized themselves into team-work brigades, with the view of not alone putting sheep raising on a higher plane, but of adopting constructive and profitable methods of grading and distribution.

Wool growers' associations were organized throughout Canada, the work of which was first to produce good wool and then to properly classify it, Alberta, Manitoba, Ontario and Quebec sheepmen handled 206,129 pounds of wool in 1914 under these arrangements while the next year nineteen organizations distributed over Canada classified and offered for sale through cooperative organizations a total of 420,000 pounds. In 1916 this grew to 1,712,-598; in 1917, 2,097,909, and hit the 4,-

Although great progress and enthus-Martin Burrell, Minister of Agricul- the same cart. ture, in 1917 saw that things were not

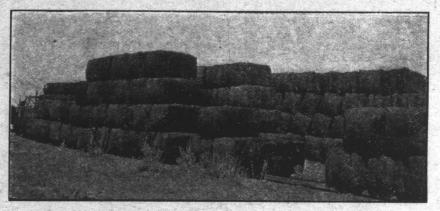
accrue for every sheep herder as a result of having one central warehouse for all the county provincial associations. Thus, a large warehouse was secured at Toronto, next door to the American wool buyer's market, and the experts of the Live Stock Branch soon were busy as bees classifying and grading shipments in the newly organized Cooperative Wool Growers' central agency, the name given to the Dominion-wide organization, to which all

Cooperative Associations Did the Trick in Canada. By Earle W. Gage

with a constructive plan, under the graded wool does business at a loss. leadership of a capable business man,

Mr. Burrell is a man of action, not tem names the prices for their classi- to weigh and tag each farmer's lot, of words and ideals alone. He believes fied and graded wool, and that the and keeping tab of the number of of its leadership than for the same pe- that it is better to come to the farmer grower who does not offer first-class

"The first thing to be done in coopda's green pastures. with helpful bulletins by the ton, tell-marked C. H. Hodge, Secretary of the In a nut shell, this is the difference ing how to "winter sheep." Which is Pontiac, Quebec, Wool Growers' Asso-



Neat, Attractive and Uniform Bales Bring Wool Profits.

department mails out tons of them an- this by means of demonstrations in

nually, but they are mailed so as to shearing, rolling and tying of fleeces. reach the farmer in season, and the A demonstration was held in each agricultural representative is also community in the county and all the there with cooperative organization neighbors and sheep owners were cor- easy, by using this number, to trace that aids the farmer in distributing the dially invited to attend. Men who fail- all lots through the various processes. surplus produce and products he has ed to attend were called upon personbeen able to create as a result of ally, and the work explained to them, adopting the suggestions contained in sacks and twine being left with them the bulletins. Increased production is at the same time." In this manner, "as this saves extra handling and there very good. Helpful distribution, per- practically every alert wool grower



Washing and Grading Wool for Association Members.

500,000-pound mark in the eye in 1918. mitting profitable farming is a whole was signed up the first season, and the lot more practical. That's why the Doubting Thomases soon knew that iasm marked the work from the start, Burrell plan hitches the two horses to they were outside a good thing, and

jumped on.

But you can't cooperate until you At the close of each demonstration all they should be. There was a streak have something to do it with. Here meeting a local director was elected as of haphazardness remaining in the lies the interesting story of how the representative on the county board. wool business. Mr. Burrell had a vis- team-work propaganda was carried to These men met and organized with the fon, foreseeing the importance of cen- the far corners of Canada, until the county as their unit, electing officers, tralizing the sale of all of Canada's last sheep raiser was enlisted. There the key-log of which is the secretary.

number of sacks and quantity of twine needed to handle the clip of his district and these were distributed either by the director or a local storekeeper.

Wool is delivered at local points on advertised days, Mr. Hodge being there fleeces in each, as well as giving the farmer an advance of sixty or seventy per cent of the market value of wool at the time. The wool is then shipped or carted by the association to the nearest grading point, fees covering freight or cartage. This saves the farmer the long haul, and as an insurance policy covers each shipment from local point to grading house, the farmer takes no chance of loss.

Care is taken with every farmer's shipment, a tag placed on it bearing the man's name, address and number of fleeces, gross weight, and number of sacks, notated on a slip placed inside the sack and on a tag fastened outside. The various shipments are assembled at the main grading shed, the Live Stock Branch supplying the grader, the association supplying men who place the various farmers' sacks upon the table. Each man's lot is graded separately, and the weight and number of fleeces in each grade entered on the grading sheet, while in a ledger is listed the member's name, the total weight of wool, total number of fleeces, and amount of his first check. As each man is given a reference number at the time his wool is received, it is

"The Ponitac association has always packed the wool into the sacks, as fast as it was graded," said Mr. Hodge, is less danger of the grades becoming mixed. The packing table should have spaces enough to permit a sack for each grade to be hung up at the same time, and, if possible, the name of each grade should be posted above the sack. In hanging up the sacks, we have not been able to find anything any better than the iron hoops, but these may be taken off more easily when the sacks are full, if a bend is placed in the hoop in which to insert the hand when loosening; better still, however, is the use of a truck, to run underneath the bottom of the sack, and raise the weight from the hoop. All sacks are stenciled with the name of the association, and the grade of wool before filling and when filled each sack has the number and the gross weight stencilled upon it and is then ready for shipment.'

The Pontiac association did a nice business in 1918, and anticipate an even better wool trade this season. The 1918 clip handled cooperatively, assigned to the various grades and amounts. follows: Fine medium combing, 5,017 lbs.; medium combing, 16,587 lbs.; low medium combing, 5,614 lbs.; fine medium clothing, 421 lbs.; medium clothing, 392 lbs.; coarse, 13,860 lbs.; dead wool, 242 lbs.; gray, 159 lbs.; black, wool, and that increased profit would are some outside yet, but the fact that Each director gave an estimate of the 156 lbs.; rejections, 612 lbs.; tags, 240.

All Pontiac wool was sold through the Canadian Cooperative Association, and shipped direct from the grading shed at Shawville to the mills. Settlement was secured by the Canadian organization, who forwarded the amount, less sales fees, to Mr. Hodge for distribution among the members.

"There has been a decided increase in the number of sheep owners who market their wool through the Cooperative Wool Agent, Manitoba



From the Sheep to the Textile Mill Cooperation Insures More Profit.

figures show cooperative wool sales to

calculable amount of good and increas- patrons this year." former years when wool was sold at a asked how cooperation benefited sheep a small beginning, we now have one ercise of intelligence in shearing, packflat rate, the importance of keeping the raisers of his section. "The coopera- hundred and seventy-five members, ing and shipping.

9,000 pounds as against 362,000 pounds was not appreciated and resulted in a proved very successful.

epartment of Agriculture," said P. G. wool in a clean condition and avoiding tive selling of wool is yet in its in- who, in 1918, cooperatively sold 14,702 oop the agent, in speaking of the de-tying with binder twine, as well as fancy here," he replied, "and although pounds of wool." elopment of sheep raising and wool mixing the black and tan with the it is a new system and the farmers roduction in his section, as a result of white and tags, locks and pieces, seedy have been very cautious and slow to erative wool growers' organization, is

Farmers Are Benefited.

were 917 shipments received. These much in demand at the present time, particularly noticeable at the grading satisfactory manner." To the contrary "It cannot be gainsaid that wool sold stations when the wool is going the breeder has been quick to get into be popular and profitable with our under the cooperative system has on through. Wool from one particular the organization of his section and to the average brought a very much high- flock three years ago had to be put learn the off-repeated lesson that to "The grading system has had a very er price than could have been obtained among the rejections on account of the secure the best prices the best article marked effect upon the quality of the by the farmer selling to the local buy- seed and straw it contained, but the must be distributed. In the old days wool, and graders, as well as grades, er," continued Mr. Coop. "This fact wool from the same flock last season wool was sold in bulk for what buyers uphold the belief that the educational is quite evident to the sheep owner, as graded medium, which meant a differ-offered; today, sorted and inspected work in this connection is doing an in- evidenced by the increasing number of ence in price per pound of about thir- grade values become apparent, and W. R. Beach, of the famous and his-extra care being taken at feeding time nize the importance of care in selecowner from the sale of his wool. In toric district of Bedford, Quebec, was and proper feeding racks used. From tion, industry in keeping, and the ex-

Thus, by and through the local coopeam work. "In 1915 we received but and dead, with the higher grade wool, fall in with the new system it has the sheep industry of Canada being said with truth that "no country in the participated, whereas, in 1918 there and a serious wastage of a product so "That our farmers are benefited is world handles its wool in a more un-

Sheep Trade Holds Meeting

sembly room of the Philadelphia Cham- situation in favor of the sheep indus- udiced and selected evidence. ber of Commerce, Wednesday, April try in this country. or representative larmers, wood grow prices of mod, as the decrease in per sixty-five land grant colleges the sheep- the wool in car load lots to reduce the state departments of agriculture, ex- capital production, and the relief must raising instruction does not compare freight charges and for business-like perts from colleges and experiment come from increased production under very favorably with that offered for marketing of the wool. manufacturers from all parts of the margin over cost of production is a of the institutions having specialists in junk rather than a high-priced com-

tions before the meeting was that of mous war debts. ment establish standards and put in and better wool are essentials of the other persons, he said. development of standards for testing in anything else."

ing their wools."

Imperative need that the United States should produce more wool as a matter of national safety in the uncertain condition of world affairs was asserted by Professor Paul Cherington, of Harvard University.

"The war has turned the wool question from a passive to an active form," he said. "It is now a vital military and economic necessity that the United States produce such quantities and qualities of wool as will make this country more nearly self-contained. So long as there is even a remote danger of any more war, it is imperative more wool should be grown at home. The one open problem is, "Who will grow it?"

"Four sources of capital and energy for greater development of the sheep industry are: The farmers and sheep men who already know the business, new combinations of capital undertaking the enterprise for profit, the great meat packers and the federal or state governments."

A. C. Bigelow, head of the association and president of the Philedalphia Wool and Textile Association, in his review of the work of the organization said that in spite of poor financial

stations, wool merchants and worsted more efficient methods. An increased other classes of live stock, only twelve Fleece wools have been handled as

operation a system of inspection sim- greater educational campaign before ilar to the pure food regulations. The us. The government institutions have

cording to their condition and quality, Swift & Co., Chicago. He gave figures crease, though it may not be rapid for quantities. and that better business methods be asserting that his company's profit is every single year." observed to insure each grower a full eighteen cents a head on sheep killed and fair return for the value of his for meat. He declared that the report clip. The final item was "there ap- of the Federal Trade Commission, iscause the growers to be hasty in seil- its findings that the meat packers had any agreement as to prices. A detailed ly taken when twenty-five county and the arrangements made should be

More Wool Association of the campaign had been great and the re- soon, he said, to prove that the com- Thompson, Secretary of the Illinois

Expects Continued Increase.

requires that live stock buyers should industry by Prof. L. D. H. Weld, man- of the business during that time. I This is actually more difficult than getpay a premium on market sheep, ac- ager of the research department of believe we will have a continued in ting the wools together in salable

SELLING WOOL.

HE conference of the More Sheep support sympathy for the educational counter-statement would be issued agents of Illinois met with Mr. D. O. United States, held in the as- sults satisfactory, showing a changed mission's charges were based on prej- Agricultural Association, and Prof. W. F. R. Marshall, of the bureau of and perfected plans for the coopera-"The greatest cause of the increased animal industry, United States Depart- tive marketing of Illinois wools. Arof representative farmers, wool grow- prices of wool, as of every other prod- ment of Agriculture, said that in the rangements were made for collecting

vital necessity for meeting the taxes sheep husbandry. He praised the work modity often passing through half a One of the most prominent ques- of the future ad paying off the enor- of the More Sheep-More Wool Associa- dozen hands before they reached the state laws regarding dogs. The fact his bit out and consequently the farmpresenting the misrepresentation in the sale of wool fabrics to the public and "A farmer who has space for sheep that the organization represents manu- er only got a small part of the actual a recommendation was unanimously should raise them if he is to handle his facturing interests enables it to obtain value of his wool. Being so far repassed urging that the federal govern- farm on the best basis. More sheep a hearing that might not be accorded moved from market connections the trade preferences and requirements, Regarding after-war values in the consequently he often could not work resolution reads: "We recommend done much, but all have room for im- sheep industry, Mr. Marshall said: improvement in his wool. Even if he that the bureau of standards of the provement, especially the Department "Sheep raisers went their limit in sup- did know something of quality, shrink-Department of Commerce be requested of Agriculture in this state, which is plying the country's war requirements, age, character and length the most by this conference to undertake the usually more interested in politics than Range flocks were kept at the maxi- abundant measure of these, his clips mum safe size and many new farm possessed availed him little because of weel fabrics which will protect the Educational campaigns by the sheep flocks were established. The 2.7 per the one price or blanket system of buypublic against misrepresentation. We growers' associations toward the use cent increase in the number of sheep ing in the neighborhood. Sporadic atrecommend that the bureau of stan- of more virgin wool in clothing and in- for January 1, 1918, as compared with tempts have been made by farmers to dards take up this matter for investi- creased consumption of lamb and mut- the year previous, and the 2.6 per cent accomplish a more satisfactory method gation at the earliest date convenient. ton by Americans were advocated as of further increase estimated for 1919, of sale, but a great trouble has been Affirmation was made that fair play the best means of booming the sheep do not fully represent the development to make the proper market collections.

The Illinois Association made arrangements with a wool-selling agency owned and controlled by western sheepmen. This organization has alsneepmen. This organization has altered was there are such such some months ago, was unfair in the situation to such some months ago, was unfair in marketing farm works to be hasty in sell. its findings that the meat packers had satisfactory to the growers.

A handling charge of two and a half cents a pound covers grading, storage, insurance and selling, if the wools are sold within four months of their time of arrival. For each month or fraction of a month over four months an additional storage charge of fifteen cents per bag and insurance will be added, A bag holds from three hundred to three hundred and fifty pounds.

Liberal advances will be made on the wool and the association is requested by the company to send one or more representatives to oversee the handling, grading, and selling of its wools. This privilege is extended to single shippers. Each clip will be given individual attention, no difference how small and a complete report of sale furnished, showing the amount of each grade and its selling price will go to each grower. The time and conditions of sale of the wool were placed entirely in the company's hands although the association had the privilege of making other arrangements. The spirit of the meeting was that these delegates did not think themselves well enough versed on wool markets to enter the (Continued on page 751),



Mr. Farm Bureau Serves the Whole Agricultural Family.



Clean Milk at Fair Prices

lege professors, institute speakers, city business men, boards of commerce, farm papers, railroad officials and progressive farmers that he must give up price for their milk.

four thousand people. It has taken these men more than two years to organize and put themselves in a position to put a price on what they have to sell; but now that they can see the light they are going about the problem in a sane and practical way. "About two years ago," says B. F. Barnett, a director of the new organization, "the dairy farmers who were producing milk for the city of Lockport became very discouraged and many of us faced the proposition of selling our cows or securing a living price for our milk. We were partly shut off from furnishing the milk which our contracts called for because the city dealers refused to furnish enough cans for shipment to the city. This loss of milk coming at a time when prices were so far below the cost of production proved the last straw, and we called a meeting and appointed a committee to visit Mr. Peets, the manager of our Niagara County Farm Bureau, and tell him that he would have to do something for us. munition for these inefficient profiteers. equipment standing idle for several buildings, equipment and cows and could not afford to go out of the business and see our property lie idle and

Our Farm Bureau Helped.

but it has proved a potent fac in

Por years and years the farmer has New York Dairy Farmers Endeavoring to Put Milk assume some of the risk of loss. We into Consumers' Homes at Minimum Cost and Save Industry from Going on the Rocks.

cooperate. He has heard and seen the little satisfaction from the powers that with ours. word so often that it is a wonder that existed at that time. And all the time he is not sick of it. But he isn't. He we were suffering these heavy losses has taken the advice so freely given no effort was made to curb the distrib- find an outlet for our surplus milk. are like the old gentleman who, when and made good use of it. How the idea utors from demanding their outrageous This has been solved by selling it to a asked if he believed in God, replied, has taken root in the farmer's mind is profits. The milk distributing business large ice cream company which has 'Why, certainly I do, but not a living well illustrated in the efforts being paid such fine profits that new men got facilities for preserving it in condition God." made by fifty dairy farmers in Niagara into the game and there became such for use for several weeks. This arcounty, New York, to secure a better a duplication of milk routes that some rangement will enable us to conduct

Handling the Surplus.

because they balked at furnishing amment is preferable to having expensive

owe a debt of gratitude to our county farm bureau and its manager, Mr. Peets, for assisting in perfecting our his old selfish, independent ways and losing us money, but we could get but presented problems almost identical backsliders in line. You know that evorganization and keeping some of our ery cooperative organization has a few weak-kneed brothers who need cud-"One of our first problems was to dling and petting to hold in line. They

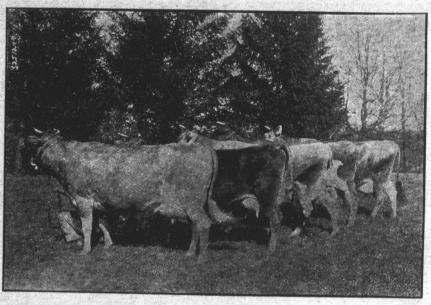
Other Cities Interested.

Lockport is only one of the cities in dealers were chasing from one end of our business without expensive manu- New York that is seeking to put the I will take these fifty milk producers the city to the other to deliver less facturing equipment and we know ex milk distributing business on a safe as an example and tell you what they than one hundred and fifty quarts of actly what our surplus is worth during and sane merchandising basis. Olean, are doing for themselves and the peo- milk a day. And all the time the pro- the different months of the year. We a city of about eighteen thousand people of Lockport, a city of about twenty- ducers were being cussed and abused are quite sure that such an arrange- ple, is delving into distribution problems and plans are on foot to make a sweeping investigation and put in a city plant and distributing system, unless the producers and dealers can get together and devise means to put milk into the consumers' homes at less cost than they are doing it at present.

In a recent interview Chairman Hart of the Rochester Public Safety Committee of the Common Council, said: "Announcement of our plans for a complete investigation of the feasibility of the city assuming direct charge of the production and distribution of the milk being handled in this city will be made shortly. We have been entrusted to make this investigation as soon as we can secure a competent expert to make an analysis of the situation. The report of this expert will to a large extent govern our action in determining a permanent policy. The people of Rochester are entitled to an adequate supply of pure milk at a reasonable price; and we purpose to devise means to encourage production and compel more economical distribution of milk.

"Just when a report may be anticipated upon the inquiry is uncertain, the scope of the investigation being so broad that collection of the necessary were getting only sixteen cents per distribute our own milk to the consuming has failed because of too expencity is based will be a matter of some time. One thing is certain, however. cure options from every milk dealer in special effort to keep down our over- so low that the producers cannot afand make reasonable profit from their business. We are convinced that pub-"We are going to put the facts be- lic health depends as much, if not

were conducting a business that was on a merchanidsing basis. Their city in cutting out middlemen we must fur-demanding that he conduct his busi-



Business and Not Patriotism the Ques- months during the year; besides the tion Today.

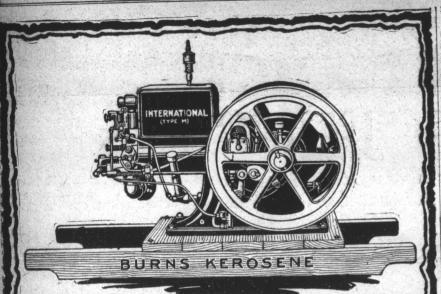
signed, our duty as milkanthropists when our surplus is the greatest. depreciate in value. At that time we ceased, we got together and decided to Many a cooperative business undertakers. At our first meeting we raised sive equipment for the volume of businvested several thousand dollars in \$27,000 capital and made plans to se- iness conducted, and we have made a cows in order that we might produce the city for their milk routes and busi- head until the business is put on a ford to furnish the city with good milk good milk and conduct a legitimate ness. Most of the smaller dealers sold sound basis. us their routes rather than face the competition and we have hired them to "Mr. Peets told us that there was an work for us until we get our business fore the people of Lockport, by paid more, upon an abundant supply of good

holding our members together and giv- and arranging with one of our banks price on what we have to sell and then would stand. The variations between ing us courage to go out and get what to carry our business we got in touch tell the consumer what he must pay cities in the same locality are too great we were rightfully entitled to from the with the Farm Bureau of Clearfield for it. I have invested several hun- to be explained by any cost of producpowers who refused to listen to us be- county, Pennsylvania, and as a result dred dollars in this business in order tion figures. Why should it cost disfore we became a part of this great or- of our correspondence we invited the that I may find a market for my milk. tributors in one city two or three cents "Our local organization had a hard up to Lockport and explain how the fifteen to twenty thousand dollars in the same size one hundred miles distime getting on a working basis with milk producers of that locality suc-vested in a business should not be-tant? For many years the distributor the Lockport distributors, and all we ceeded in getting their milk into the grudge an expenditure of only a few and the consumer have generally been could get for our milk was eighteen consumers' homes at Du Bois for less hundred dollars for marketing charges. able to subdue any profiteering designs cents a gallon, while they were getting than three cents per quart. He told us There is no use in talking cooperation on the part of the producer; but it is fifty-two cents per gallon, or thirteen about their early trials and perplexities until we have made up our minds to no less the duty of the producer to cents a quart from the consumers. We and how they had prospered since pay the expenses of finding better mar- join with the consumer in holding the proved by the best of evidence that we they had put the distributing business kets for our products. If we succeed distributor down to a just profit and

ice cream manufacturers are in a posi-"Finally, when the armistice was tion to use the most milk at times

Tell the Consumers the Truth.

organization known as the Dairymen's organized and secure competent driv- advertising if necessary, and show milk at reasonable prices, as it does League operating in the eastern part ers. We made an offer of \$15,000 to them who is getting the profits in the upon the supply of pure water. Our of the state and advised us to get in the largest distributor in the city for milk business, and who is conducting first efforts will probably be to stantouch with some of its leaders and his plant and routes, but he placed a the business along constructive lines. dardize the milk used in the city in an have them aid us in organizing our valuation of \$35,000 on the outfit, so We can play the game square and put effort to avoid duplication of routes producers. We lost no time in follow- we decided that peace at that price the milk produced by farmers in our and unnecessary charges in handling ing his advice and joining the League, was too expensive and are building a home territory into the consumers' and delivering it to the consumer." and I want to say that this has proved new plant. One of the dealers we homes at from two to three cents less The Consumer Should be Considered. the best little investment we have ever bought out is a young fellow named per quart than has been the practice A careful study of the retail prices made. The League has not only kept McGrath, who knows the business thor-during the past three years. We do for milk in various cities in New York us informed as to prices, market con- oughly, and we have hired him for our not pose as philanthropists or charity shows that the method of price determworkers, but as common-sense business ination has largely been to charge the "After perfecting our organization men who refuse to let middlemen set a consumer every cent that the traffic county agent of that county to come In these days a man who has from per quart more than in another city of



Let It Carry Your Load

IN the olden days folks put the world on the back of a fabled giant called "Atlas." To-day progressive farmers put a world of work on the shoulders of an

International Kerosene Engine

This sturdy, reliable, willing, inexpensive servant is doing more today to take drudgery out of farming than any other one factor. It tackles scores of jobs about the farm - such as sawing wood, pumping water, cutting feed, running the fanning mill, etc., and disposes of them swiftly and satisfactorily.

Rations for the smallest size cost less than 3c per hour—pretty cheap board for a 'jack-of-all-trades' that does the work of a dozen men. Stop working so hard. Slip all the pesky little jobs to an International. It conserves your time and labor and fattens your purse. There are three sizes, 11/2, 3 and 6-H. P., all operating on kerosene or gasoline.

An International dealer nearby will go over this work wizard, point by point, and explain why its "credentials" are gilt edge. Or write the address below and full information will be supplied.

International Harvester Company of America, Inc.



HAY IT ALONE

WITH THIS

ONE MAN HAY RACK

You work no harder and save the expense of an extra man.

HOW IT WORKS

1. Front half of rack moves back and locks over rear half where it is easily loaded.
2. Tripping a lever at the standard permits the loaded half to move forward by gravity where it is locked at the front of box.

The operator then loads the rear half. NOTE THESE FEATURES Rack may be used on any wagon box of the right length.

One can use either slings or fork.

Operator remains on load until it is completed.

Rack being flat it is suited to every job that hay racks are useful for.

One man can put on as large loads as two nen with the old style rack.

The price of the rack and box complete, is \$65.00 or rack complete at \$50.00, f. o. b, New Haven for either 14 or 16 foot lengths. For particulars hustle a postcard to

SCHEUNEMANN & CO.

New Haven, Mich.

Faster Shearing CULL BEANS

Can be fed at present costs with a big profit to the feeder. Our culls are clean and dry. Special price \$40 per ton, delivered Michigan points, sacks included. Order today. Higher prices

PORT HURON STORAGE & BEAN CO., Port Huron, Michigan

Shear with a machine—save time and money. You can shear at least one-half faster. Get 15% more of longer, better wool and not scar the sheep. Get a Stewart No. 9 Ball Bearing Shearing Machine. Fine for flocks up to 300 head. Price \$14. Send \$2-pay balance on arrival. Write for catalog.

CHICAGO FLEXIBLE SHAFT COMPANY Dept. B127, 12th St., and Central Ave., Chicago, Ill

Simply charging the needless high going to give figures showing the cost of distribution to the consumer is amount of capital represented in the

for milk is not yet classed as a food known milk authority of New York necessity, and forced prices still react City, there are forty thousand farms the same as is the case with non-es- selling milk to New York City dealers.

dare to think they have gained a vic- \$200,000,000 per annum. tory against the distributors when I believe that these figures are apthat crowd raises the price one cent to proximately correct, at least in their the producers and two cents to the relation to each other. The point I consumers. Such an advance may put am getting at is that \$25,000,000 invest-

A Sixteen to One Shot.

crete idea of a just and equitable dis- er share of the selling price of milk? tribution of the profits from the pro-

ness in an efficient, business-like way. duction and distribution of milk, I am befogging the issue, for such tactics two branches of the industry. Accordinevitably cut down the use of milk, ing to Dr. Charles E. North, the wellsential luxuries. Far-seeing milk pro- These farms represent an investment ducers' organizations will be alive to of \$400,000,000 on the part of the milk the importance of developing a de- producers. The distributors in New mand for milk at living prices rather York City who sell this milk have than feeding a giant octopus that is about \$25,000,000 invested in plants, curtailing consumption. In any com- machinery and equipment necessary prehensive plan to maintain milk pric- for distribution. The consumers in es the place for the dairy farmer is on New York City pay each year to the the side of the public rather than in an producers about \$100,000,000, and to unholy combination with distributors. the distributors \$100,000,000, making a The time is past when dairy farmers total for liquid milk for the city about

the business on a paying basis for a ed by the distributors brings in a total time, but it is bound to prove disas- of \$100,000,000 annually, whereas the trous in the end. It not only cuts down \$400,000,000 investment of the producconsumption in the cities, but it is ers brings in the same amount. In likely to develop into price-fixing and other words, a dollar invested in the regulations which will eventually distributing business goes as far as \$16 wreck both producers and distributors, invested in the producing business. The dairy farmers cannot afford to ig- The real truth of the matter is that nore the public, and no amount of ad- the distributors are about sixteen times vertising propaganda can justify such better off, so far as profits are concernbusiness methods in the eyes of the ed than the producers. Can any fairminded man question the motive of producers in balking at this sixteen to In order to give the reader a con- one proposition and demanding a larg-

Agricultural News

been realized in the past. Based on most tree fruits. the price of butter and cheese for the previous month, the dairymen of the ist of the Geneva Experiment Station, two-hundred-mile zone will receive after examining the buds in the sta-\$3.06 for three per cent milk.

dairymen are putting themselves in says he does not consider that the fruit shape to continue conditions which prospects of western New York have shall bring them the same good re- been seriously injured by the weather. turns. All depends upon the future of Peach and early cherry orchards in the butter and cheese market. Will warm situations and in full bloom present prices be maintained? This is when the cold spell came, suffered sewhat the farmers are asking with a verely. It has been found that the great deal of interest.

market, our farmers are going right Professor Hedrick thinks it is not sethe distributors. A good many places uninjured to assure fair-sized crops. have been designated as the location plans outlined at Utica.

anything else they can buy for the snap. same money as an article of food.

The best part of the present situa- dering or tion is that although the price of milk was done to the peach crop as a result is so favorable for the farmer, still the of frost. One grower, who had estiprice to the consumer has not been ad- mated his crop would be three thouvanced for the current month. We sand baskets, finds that not enough these materialize, the consumer should and apricots met the same fate. still further profit by it. E. L. V.

WESTERN NEW YORK FRUIT PROSPECTS.

to the orchardists in the western New (Continued on page 751)

THE EASTERN MILK SITUATION. York fruit belt. Investigations of orchard conditions following the severe IT is agreed on all hands that the storm and extremely cold weather of price for May milk as received by the last week in April, howeved, led to the members of the Dairymen's League the conclusion that present indications is the most favorable of any that has are favorable for a fairly good crop of

Professor U. P. Hedrick, horticulturtion orchards and receiving reports Spurred by this profitable price, the from many points in the fruit districts, sour cherries, which are generally con-And while watching and waiting de- sidered hardy, have suffered severely. velopments in the butter and cheese While the frost injury is considerable, ahead to put themselves into shape to vere enough for fruit growers to relax take care of their own milk if further their spraying and cultural programs, conflict should arise between them and as it is likely that enough buds remain

Farm Bureau Manager L. J. Steele, of local units for the reception of milk and Entomologist F. Z. Hartzell, of the and its manufacture into butter and Geneva station, after making tests in cheese, independently of the big deal- orchards throughout Orleans county, Very few if any of the local report that the examinations show that branches but have now adopted the there has been little injury to peaches. These experts say the trees were too In the meantime a systematic effort full of buds, and the killing of a small is being made to stress the value of percentage by frost is a benefit to the milk as an article of food. The people grower, as a better quality of fruit will of New York have not in the past un- result. No injury to apple buds is notderstood that at any price which may ed. Plums, quinces, prunes and berbe demanded, milk is worth more than ries show no damage from the cold

In Seneca and Schuyler counties borlearn of propositions to lessen the cost buds are left alive to supply peaches of distribution by the use of trucks. If for his own use. The early cherries

David C. Vann, manager of the Monroe County Farm Bureau, says that considerable damage was done to fruit in his county. From examinations that have been made there are indications INSEASONABLE weather during that Elberta peaches came through the late winter and spring months with not more than twenty-five per has been a course of much worry cent of the buds killed. In the case of

Please Mention The Michigan Farmer When You Write Advertisers



World Supply of Dairy **Products**

ment of Agriculture into the prospects in Denmark for the year ending Octo products, virtually all the exportable for the year ending October, 1918, the surpluses of butter and cheese are in amount fell off to 41,800,000 pounds. the United States and Canada, Ausing Denmark.

amounted to 1,540,000 pounds, and land. there was an increase for the calendar year of 1918 to 3,121,000 pounds.

000 pounds of cheese for the calendar Argentina is noteworthy. year of 1918. The United Kingdom is now by far our largest foreign market. This is largely the result of the war.

The latest official statistics of importations of butter into the United M ANURE gives more satisfactory results and yields most if used Kingdom for a period of eleven months on poor soil. Greatest profits may be the following sources of supply:

Country.			Value.
Denmark		. 8	3.686.480
France		200	360.067
Netherlands	DIC.		799 649
United States			10.030.533
Argentina			14,953,752
Victoria (Australia)	100		13,263,378
New South Wales			12,742,833
Queensland		. 19	7,395,567
New Zealand	60	<u> </u>	20 335 972
Canada		. 1	2,542,654
Other countries			3,616,174

hundredweight for butter and twenty rock phosphate per acre has produced cents per pound for cheese, f. o. b. an increase of thirty bushels. On the from the price at which the products pounds of raw phosphate rock has inwere disposed of in the markets of the creased the corn crop only about eight-United Kingdom. A recent report in een bushels per acre, even though dicated that the producers received as three times as much prosphorus was their share of the profit on the sale of added. The total yield of the manured last season's surplus of butter 17s land has been nearly the same in both (\$4.12) per hundredweight. The impecases. rial government has offered to pur- Lap chase the output for the season 1918-19 at \$34.04 per hundredweight for butter and twenty-one and one-half cents per pound for cheese.

large quantities of dairy products, a hoppers. We had a scourge of the hopconsiderable portion of which found its pers last season and used the bran way to the English market. The pro- mixture until we could get no more duction of butter in Denmark in the bran. We then used dry sawdust (or calendar year 1914 amounted to 257, old dust) salt, Paris green and a little 400,000 pounds. For the twelve months water to moisten the mixture. With from October, 1917, to October, 1918, this we got as good results as with the the production was only 130,900,000 bran. Hoppers will eat anything that pounds. Of this quantity 92,400,000 has salt mixed in it. We killed them

CCORDING to a special investiga- markets leaving only 38,500,000 pounds tion by the United States Depart- for export. The total cheese produced for American export trade in dairy ber, 1917, was 53,900,000 pounds, while

The principal countries from which tralia and New Zealand and Argentina, the United States imports dairy prodthe only large exporter in Europe be- ucts are Italy, France, Switzerland and Argentina. In the fiscal year 1915 The principal foreign markets for Denmark exported 1,620,000 pounds of American dairy products are the Unit- butter to the United States, but in the ed Kingdom, Panama, Mexico, Jamai- fiscal year, 1917, America's total imca, Cuba, Haiti, Peru and China. The ports consisted only of small consign-exportation of cheese to Cuba in 1917 ments from Australia and New Zea-

The total importations of butter during the calendar year 1918 amounted Except for negligible quantities, the to 1,655,000 pounds. The importation only European country taking Ameri- of cheese from Italy in the fiscal year can dairy products is the United 1917 amounted to 8,432,000 pounds; Kingdom. In 1913 the exportations of from France, 1,937,000 pounds; from butter to England were small, the ex- Switzerland 1,640,000 pounds and from ports of cheese amounting to 634,000 Argentina 1,841,000 pounds. Importapounds. In 1917 the United Kingdom tions of cheese for the calendar year imported from the United States 20,- 1918 amounted to 542,000 pounds from 589,000 pounds of butter and 51,000,000 France, 5,044 pounds from Italy, and pounds of cheese, compared with 22,- 6,589,000 pounds from Argentina. The 250,115 pounds of butter and 38,967, rapid increase of importations from

BEST RESULTS ON POOR LAND.

expected from a ton of manure when it is used on the poorest soil on the farm. The richer the land the less will be the increase in crop yields from the same application of manure if other conditions are the same.

The value of a ton of manure when used on soils of different fertility is illustrated by two series of plats on an old farm in this town. Corn without any fertilizer or manure has yielded forty-two bushels per acre for five Total\$89,617,059 years in a rotation of corn, oats and The British Government bought the clover. In another series not more entire export surplus of both butter than forty-five rods distant the corn and cheese from Australia for the last crop for several years has been only two years at a fixed price ranging from about fifty-six bushels, the other crops \$36.36 to \$39.45 per hundredweight of of the rotation being wheat and clover 112 pounds for butter and twenty cents and sometimes a crop of rye. Originalper pound for cheese f. o. b. steam. ly the land was the same but its treatships at Australian ports. The govern- ment previous to the time these experiment also bought the entire export ments began made this difference in surplus of New Zealand for 1917 and fertility. Eight loads of barnyard ma-1918 at a fixed price of \$38.23 per nure with one and twenty pounds of steamships, the producer to receive poorer soil, and on the rich land, the fifty per cent of the profit derived same application with four hundred

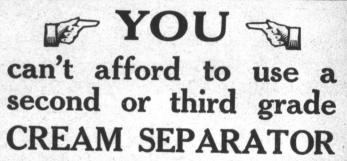
> Lapeer Co. M. A. CRAWFORD.

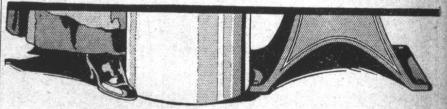
POISONING GRASSHOPPERS.

er pound for cheese.

Denmark, prior to the war, exported I NOTICED a short time ago the poison bran mixture for killing grasspounds were absorbed by the home by the thousands.-H. C. England.







Get a DE LAVAL

Many users make the mistake of "saving" \$10 or \$15 in the first cost of a cream separator. More of them continue the use of an inferior or half-worn-out machine simply because it still separates.

These users fail to consider what it means if the separation is not complete; if the capacity of their separator is so small that it needs to be run longer; if it is out of order a good part of the time, or if the quality of the product is not the very best it could be.

They fail to realize what a very little difference means in the use of a cream separator twice a day every day in the year, and what a difference it makes in first cost whether a machine lasts three years or fifteen years.'

All these differences led to the great majority of experienced users buying De Laval machines when butter was worth 20c. a pound, and they mean just three times as much when it is worth 60c. a pound and when every minute of time saved is worth so much more than it was a few years ago.

De Laval superiority over other cream separators is no uncertain quantity that cannot be seen or measured. On the contrary, it is capable of demonstration to every separator user, and every De Laval agent is anxious for the opportunity to demonstrate it.

If you don't know the local De Laval agent, write to the nearest De Laval office as below and we shall be glad to put him into prompt communication with you.

THE DE LAVAL SEPARATOR COMPANY

165 Broadway, New York

29 E. Madison St., Chicago

OVER 2,325,000 DE LAVALS IN DAILY USE

Until All Roads Are Concrete

-ruts will continue to send thousands of tires to the junk pile before their time.

For this reason, the side-wall toughness of HORSE-SHOE TIRES is particularly valuable.

No motorist should drive in ruts habitually. They act like grindstones on the sides of his tires. But he cannot always avoid themtherefore, extra care is taken to make the walls of Horse-Shoe Tires as tough and durable as possible without undue

So if you have to drive over rutted roads a good deal-

'Remember the Horse-Shoe Tread'' Guaranteed for 5,000 miles but gives more. See your local dealer or write to

Brown & Sehler



RSE-SHOE TIRES

Ladder-Hinge Door Fills as Fast **Stave Silos**

or forms a perfect ladder —isteps
15 inches apart.
Safe, easy—any boy can operate.
Door always in place—no lost doors.
Lever Lock operated by one hand.
Keeps ensilage perfectly next to
the door,
Does not sag, bind or stick.

Write for Booklet.
Agents Wanted.
can also secure the Ladder-Hinge
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Binder Twine Get our low 1919 prices. Farmer agents wanted. Sample free.
THEO. BURT & SONS, Melrose, Ohio

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Our Service Department

HANDLING FARM MANURES.

become so when decomposed or rot- and rye. ted. Hence the earlier it is applied the more available it becomes and also ones; and, if this plan is carried out, the better dissolved in the soil.

ing the winter will materially benefit rye and vetch, and sweet clover probeans or corn if applied as early in the vides two soil-enriching legumes durspring as the ground will permit. How. ing the three years. With lime applied ever, if it is of a coarse nature like once every six years and commercial straw or cornstalks and not well rot. fertilizer used with the grain crops, ted it should not be applied too heavy, this soil should respond with good reor one is apt to destroy the capillary turns of red clover or alfalfa after one action of moisture, between the soil rotation. and subsoil so necessary for the growth of the crop. It is not a common practice to top-dress a cultivated crop, either before or after planting. It will quite likely interfere with the cultivation. If the manure is very fine and well rotted it is, of course, entiread with the cared for and how long set, also is it all right to turn on rye in spring? Yan Buren Co. G. W. B. ly practical to do so, but in most cases it is best to apply before plowing.

W. J. R.

BUILDING UP SANDY LOAM.

I have an eighty-acre farm of sandy loam which is rather light. How would you build this soil up, also how would you work it to get clover started? Would alfalfa do well?

A. N. Isabella Co.

A man's success in creating a fertile productive soil from the light sand in central Michigan will depend on his willingness and ability to invest some money and sacrifice a crop or two for the benefit of better future crops. Such soils are invariably sour, the humus content is low, and they generally lack sufficient amounts of all of the essential plant foods-nitrogen, phosphorus, and potash. These conditions being appreciated however, one is ready to proceed with a practical plan for soil building; and if a clay subsoil comes reasonably close to the surface, the sandy loam soil thus secured will be even more productive and satisfactory than heavy clay soils in the same lati-

ter plowing. This will take care of the soil acids for several years. To supply the vetch, inoculated, and a bushel and lime and seed will be about \$11.

and fifteen pounds of sand vetch per tion.

acre. To insure inoculation, use pure culture again on the vetch seed. This Can you tell me what is the best combination will do well on light soil, way to handle manure, whether to spread it on the plowed ground or to put it on the ground before plowing, the spreading to be done with a manure spreader. The crops this manure is for will be beans and corn.—G. C.

The best result in the wear of means a contraction of the vetch seed. This combination will do well on light soil, but acid phosphate or a high-grade complete fetrilizer may be used with it to advantage, drilling in about two hundred pounds per acre. This crop can be harvested for the grain next The best result in the use of manure year, separating the vetch from the rye will be obtained by applying it as with a vetch separator. Next spring far in advance of the planting of the sweet clover may be seeded in with crop as possible. Fall and winter is a the vetch and rye. The sweet clover good time to manure for spring crops. may be used for pasture, hay, or seed. The fertilizing elements in fresh ma- It should be followed by a cultivated nure are not in a form to be readily crop, preferably corn, as it will permit absorbed by the crop but only seeding again in August with vetch

The crops suggested are all safe one can soon put the soil in a produc-Manure which has accumulated dur- tive condition. The rotation of corn, H. L. BARNUM.

HATCHING GOOSE EGGS.

Van Buren Co.

Goose eggs can be set in an incubator and it requires thirty days to hatch them. However, it is best to hatch geese with hens, giving five eggs to a hen. It requires a great deal of skill and attention to incubate goose eggs artificially and we have never found any breeder that did not prefer to hatch them with hens. Three hens can be given eggs at the same time and then all of the goslings that hatch turned over to one hen to brood. Geese seem to like any form of pasture and could be turned on rye but they are heavy feeders and would doubtless severely injure a field of rye if a crop of grain was expected from that field. Farmers seem to make the most profit from geese when they can be pastured on low or waste land that is of little value for other purposes. Most farmers do not like to pasture geese in fields where other stock are to be grazed as cattle do not like to feed where geese have been.

GROUND OATS AND ALFALFA HAY FOR DAIRY COWS.

Kindly give me a dairy ration. I have nothing but ground oats and al-If time permits this spring, we sug-gest the application of two tons per acre of ground limestone or marl on the fields selected for improvement. Work the lime into the surface soil af-

Either alfalfa hay or good clover hay with ground oats for grain make a the necessary humus, sow oats and splendid ration. I don't know how you sand vetch or oats and peas. The oats would get any better ration, both for and vetch may be sown at one opera- economy and for results. About the tion, using twenty to thirty pounds of only criticism that one could give be that it lacks varie a half to two bushels of oats. The peas clover hay and good ground oats are will do better if drilled in quite deep so delicious that cows rarely if ever and the oats drilled in at another oper- tire of either one of them, and at the ation more shallow.' In the latter mix- present price of other grains I do not ture a bushel and a half of each will believe that you can get a much cheapbe about right. Before the oats are er ration. If you have plenty of oats ripe this crop should be broken down and plenty of clover hay and will feed by disking and then plowed under as all the clover the cows will eat up green manure. The cost per acre for clean, and a sufficient amount of ground oats so that each cow gets one After plowing down the green ma. pound of ground oats for every four nure work the soil until a good seed-pounds of milk she produces in a day, bed is secured. Then, before the end I believe you will get as good results of August, sow Rosen rye, one bushel, as you can with any other combina-



SELECTION OF DISEASE-FREE SEED CORN.

MANY fields of corn do not give the yields which their fertility and the attention given them in cultivation would justify. Considerable care may be used in selecting seed for planting, but too many missing hills and slow-growing stalks result. This has often been attributed to injuries from birds, root insects, and rodents, but recent studies on these troubles by the Department of Agriculture and the Purdue, Indiana, University, Experiment Station show that while these injuries are important, there are other definite, harmful organisms which are the cause of unprofitable yields.

The effects of certain fungi on the corn plants may be very marked. They may be observed readily in the form of smut, rust, broken ear shanks, broken stalks, and down-stalks which may be distributed irregularly through a field. Other harmful organisms may cause less striking effects on the plants. Inconspicuous rotting of the stalks, of the ears, and of the roots, may take place with no apparent injury. The ears, however, which are borne on such diseased plants are weakened. Perhaps the weakness is not enough to show decreased vitality on the germinator, but is evident in the field performance of the seed when taken from the ear and planted the following season. The planting of seed infested with these organisms is, in a great measure, responsible for missing hills, slow-growing stalks, barren stalks, down-stalks, nubbins, early blighting of plants in the field with the large reduction in yield which these conditions bring about. The same organism which causes scab of wheat also causes rot of the stalks, ears, and ear-shanks of corn plants. Wheat planted in fields of diseased corn has more scab than occurs when the corn fields are free from scab-producing organism.

For permanent corn improvement, only ears from disease-free stalks should be used for seed purposes. There are two methods of selection of good seed ears, both of which, from the present state of knowledge, should be followed to insure freedom from disease. Mature ears on disease-free stalks should be selected for planting. It is assumed that the variety of corn is one which is adapted to the soil and climatic conditions of the locality where it is grown and that it will mature in a normal season. Ears should never be selected from smutted stalks, or from stalks which are rotted or whose roots are rotted. Neither should ears be selected which have rotted, broken shanks. Many root-rotted plants die prematurely. The rotting of the stalk can be observed by cutting down through the plant and splitting it open. If the inner portion of the stalk, especially at the lower nodes or "joints," at the base of the stalk, shows a brown discoloration the presence of a harmful organism in the plant is indicated. A mature ear on a living green stalk is always best for seed purposes.

A more critical study of the results of the germination test can be made than has been the habit of the past. It has been found that ears may have perfect germination and yet give low yields in the field; such ears have an unusual susceptibility to rot-causing organisms on the germinator. The seedlings from such ears may develop molds upon them and if they are cut through with a sharp knife at the time the normal seedlings are three or four inches in height, the rot will be noticed developing in the embryos of infectimprovements. Skims close.
Easy to run and clean. Every
drop of milk gets full skimming force of the bowl. Sold on
180 milking tests too.

Write for

FREE

Book and

Special Sale

Folder Find out the special big-quantity, factory-run low-price on the one size Separatoa. Over 300,000 sat-ished Galloway

· Wm.

Salloway

(Continued on page 731).



<u>Calf</u> 15,000 - 750 lb. Size **Enemies**

WHITE SCOURS BLACKLEG

Your Veterinarian can stamp them out with Cutter's Anti-Calf Scour Serum and Cutter's Germ Free Blackleg Filtrate and Aggressin, or Cutter's Blackleg Pills.

R. F. D...

Ask him about them. If he hasn't our literature, write to us for information on these products.

The Cutter Laboratory Berkeley, Cal., or Chicago, Ill. "The Laboratory That Knows How"

Binder Twine Standard 500 ft. to the lb. 20.50 per 100 pounds, Carload lots 1/4 cent less per pound. Order now. Write for Louis Lesse, Dep. V , Milwaukee, Wie.

Gall Cure That is GUARANTEED Bickmore's Gall Cure is guaranteed to do all we claim for it. If it doesn't, you get your money back, Successfully used on over a million horse back, Successfully used on over a million horse each year all over the world! Cures while the horse works! Wonderful for collar and saddle galls, broken skin, rope burns, sore shoulder mange, and other skin diseases, bruises, cuts chafes, mud scalds, grease heel, chapped teats or cows and other wounds on horses, cattle, pigs, and poultry. "Your Gall Cure" says C. A. Tripp, of Marshield, Wis, "is wonderful stuff. Had a mare-could not get her shoulder healed all summer. Got a small but of Bickmore's and did not use it all up before her shoulder was healed. Worked her wery day in the meantime." Ask for Bickmore's at any druggist's, harness dealer's general or hardware store. Accept no substitute. Watch



ATTEN-SHUN FARMERS Ship your own the profit yourself. We pay top prices and mail check the profit yourself. We pay top prices and mail eneces promptly Write for our proposition. FREEMAN DAIRY CO. Butter Dept. Flint, Mich.



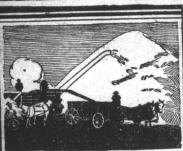
Time is mouey to the farm-er—enough time can be saved with a Leader Water System to quickly repay its cost. Just think of the dozens of times every day someone has to pump and carry water! All that could be saved by the installation of a Leader Water



In these days of \$2.20 wheat and other prices in propor-tion, there is no possibility of an immediate reduction in the cost of leader Water Systems. Don't deprive yourself of the pont deprive yourself of the ceonomies and comforts of of the Leader Water System, hoping that the price will drop. Leader Water Systems are made under the most efficient conditions and are resolveby low priced for the markably low priced for the

Be wise-place your order now.





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You insure your grain crop when you hire the man with the

He has the thresher with the famous "Man Behind the Gun" that beats the grain out of the straw. Doesn't wait for it to drop out as in other threshers but goes after every kernel and saves it for you. That's why the Red River Special saves the farmer's thresh bill.

O. I. Kindig and three others of O. J. Kindig and three others of oanoke, Ill., write Nov. 25th:

"In 1916 we purchased one of your 30x46 Red River Specials and it has done more and better work than we expected. We threshed as high as 3,500 bushels of oats in one day and it saved all the grain. It beats them all."

Saving rain costs less than growing it. Look for the man with the Red River Special, It will pay you.

Write for Circulars

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In Continuous Business Since 1848
Builders exclusively of Red River Special Threshers, Wind Stackers, Feeders,
Steam and Oil-Gas Traction Engines
Battle Creek

Sir Walter Raleigh's Late seed potatoes at \$1.25 hill selected seed and free from disease. Walnut to prove the Price f. o. b. bags included.

DAVID LEENHOUTS, R. 2, White Cloud, Mich.



NURSERY STOCK PRICES SOAR IN THE EAST.

NURSERY stock, including apples and other fruit trees, have touched a new top notch price in the east. This probably means that there will be extremely small plantings this year and in fact for several years to come or until prices become better adjusted. Today, agents of nursery concerns are selling the ordinary standard Baldwins and Greenings at \$1.00, two to three years of age. The popular varieties of Delicious and Winter Banana are regularly quoted at \$1.25 each. Again standard pear trees, including Bartlett and other common varieties, are selling at \$1@1.10 each. Plums and prunes are listed at about the same prices as pears. Cherries are selling at \$1@1.25 each. Peach trees including Elbertas and Crawfords are listed at \$1. It is to be appreciated that this does not represent the prices charged for large lots, but the regular retail price, with the trees distributed through the agency system all over this territory.

The present prices are the natural outcome from the extremely low prices that have been charged for the last five years. Apple trees have sold within that time for ten cents each, a nominal price. Naturally discouragement followed business on such a basis and hundreds of small nurserymen went out of business. Incidentally hundreds of acres of nursery stock were plowed up and thousands of trees thrown on the brush pile. This has cut the available supply of trees to the lowest point in twenty-five

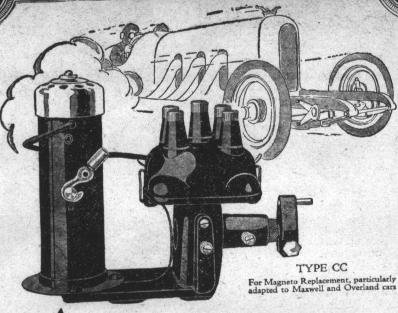
This in itself was enough to have boosted prices, but added to all this was the extremely hard winter of 1917-18, which killed hundreds of acres of peach trees and seriously injured many young apple trees. Then, too, young trees in the nursery rows were injured. Now comes the need of replacing so far as practicable these orchards along with the normal amount of setting required to maintain the orchard acreage in the fruit belt, aside from the damage described.

In addition to being largely a matter of supply and demand, it is rather openly asserted that the bigger firms, now that the small nurserymen are out of the way, have come to an understanding through their national organization, and that prices will be fully maintained indefinitely or until something breaks.

Under present conditions, the disposition is to restrict plantings. There is also the belief in some quarters that the present nursery stock is risky stuff to set on account of the winter injury a year ago. W. P. Rogers, former president of the New York State Fruit Growers' Association, said that he would not advise anyone to set trees this year on that account because he considered the stock lacking in vitality and possibly seriously injured.

Many of the nurseries are about all sold out. One dealer in reply to a query as to what price he would quote on five hundred peach trees, said: "I wouldn't quote; we haven't got them."

What is at least evident at the preswhat is at least evident at the present time is that the war has accelerated the business evolution of farming, and it is reasonably to be assumed that a considerable part of the agricultural population of this country, estimated at 6,000,000, is giving thought to the larger use of business methods as a means of preserving their present prosperity. It is to be hoped that, in-dividually and through their organiza-tions, they are gearing their plans not only to the idea of profits, but to that of meeting a responsibility as purvey-ors to a continually hungry world.



WAT

SCIENTIFIC IGNITION

YOUR Atwater Kent System provides all necessary spark energy at the slowest motor speeds—the same energy at all intermediate and high speeds. There is no variation caused or controlled by motor speeds—therefore of irregular potentiality. The same big, hot spark that carries you along without skipping or struggling at two miles per hour in the thick traffic will carry you along at a hundred or upwards on the speedway.

No extra attachments or systems are necessary for fullest efficiency under any motoring condition if you are Atwater Kent equipped.

A Special Atwater Kent System for Tractors Please Name Make and Model of Car or Tractor When Requesting Literature

ATWATER KENT MFG. WORKS Philadelphia

will find exactly the size and kind of machine you want in

The Silver Manufacturing Co. Box 390



Sow genuine hardy Dakota Seed. Write for sample and price. Also Sudan Grass, the new drought resistant hay crop, sample free.

THE HOLMES-LETHERMAN SEED COMPANY Box F, Canton, Ohio.

CABBAGE PLANTS Well hardened, ready for transplanting. Varieties: Flatdutch and Surehead. By parcel post prepaid 100 for 40 cents: 500 for \$1.40: 1000 for \$2.50. By express collect \$1.25 per 1000; 500 \$5 0 0 Address THE W. L. BEARDIN PLANT FARM, Tipton, Gal.

HORSES

Pure Bred Belgian Draft Horses

We have some extra good Belgian Stallions for sale, coming three and four years old. They are heavy, of good comformation and sound. You can see their sires and dams. They are raised in Michigan and acclimated. We have no agents on the road for which you or we would have to pay, You cannot buy them any better nor cheaper in the world. Our studs and mares carry the best blood Belgium has produced. We prove this by their pedigrees. We invite you to see our stock before buying. You can see them any day of the week Except Sunday. Write for particulars and catalog to the OWOSSO SUGAR COMPANY. Prairie Farm, Alicia, Mich.

For Sale Registered Percheron stallion 3 years old.
Champion stallion bred and owned by exhibitor at the West Michigan Fair in 1918. Fine disposition; broke double. Also one 2 yr. old own brother to above. Horace H. Walcott, Coopersville. Mich.

Percherons, Holsteins, Angus, Shropshires, Durocs DORR D. BUELL. Elmira. Michigan.

Percheron Stallions and mares at reasonable prices; inpect tion invited.

F. L. KING & SON. - Chartlotte, Mich.

SHEEP

MORE to the Kids of Mich: I have sold all the ewes that I care to sell but judging from the many inquiries I have received there are many of you kids who still want to get started in registered ewes. Now then, here is a new proposition: I have selected one beautiful Sropshire ewe, she will lamb in the course of the next month; she is worth at least the course of the next month; she is worth at least \$50.00. I will give this ewe, absolutely free, to the boy or girl who gives me, in my opinion, the best reasons why they should be the one to get her. I may give away more than one.

S. L. WING, Kope-Kon Farms, Coldwater, Mich.

SHROPSHIRE SHEEP

We have about 50 ewes in lamb for sale, of best breeding. Registered. RARRY E. SAIER, Seedsman. 109-111 E. Ottawa St., Lansing, Mich.

BUYASHEEP

Wait a minute, buy Hampshires. The American Hampshire Sheep Association wants to send you a dandy little booklet with list of Breeders. Some near you, write COMFORT A. TYLER, Secretary, 22 Woodland Ave., Detroit, Mich.

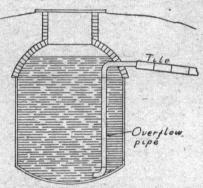
Please mention the Michigan Farmer when writing to advertisers.



Keeping the Cistern

THE accompanying drawing shows a cistern with an overflow pipe, the object of which is to keep the bottom of the cistern free from sediment and to keep the water from becoming foul smelling.

The pipe extends from the bottom of the cistern up to as near the top as it is desired to have the water rise, where it is made to pass through the wall of the cistern and into a pipe or tile drain to carry it away. That the water may readily enter the pipe, an elbow should be attached to its lower end; and another elbow will be needed at its upper end that the pipe may pass through the wall of the cistern. Probably in most cases, the pipe would be made to pass out through the cistern's



arch, as shown. As the water rises above the upper elbow, it necessarily flows out of the pipe, but to do so must enter the pipe at the bottom of the cistern. By this means, all foul stuff that is not too heavy will be carried away. and the old cistern water will be replaced by the new that enters at the top of the cistern.

This idea has been published before, but is well worth repeating. Since putting this device into my own cistern, the water has been ninety per cent better than it was before. I might say one hundred per cent, but the roof space from which my cistern is filled is not large, and sometimes through the summer not enough water runs into it to overflow it for a long time, and the water may become somewhat tainted. I have heard of a cistern not far from here that was emptied out after twenty years of continuous use with an overflow pipe, and no sediment was found in the bottom of it. The more water that runs into or through a cistern with this device, the purer it will be. A three-inch pipe is about the right size to use.-L. B. Avery.

SELECTION OF DISEASE-FREE SEED CORN.

(Continued from page 729). ed seedlings. This infection caused by harmful organisms, actually upon or within the seed-kernels, is called primary infection. This early rotting of the seedling, the result of primary infection, is a germination characteristic by which the infested eak ears may be discarded before planting.

Ears from diseased stalks may have kernels bearing harmful molds and bacteria in a relatively inconspicuous manner. The kernels may germinate, but at germination time, the young seedlnigs may be invaded readily because of this close relation. Then again, some ears may be free of any harmful organisms, but having been formed on a diseased parent-stalk, the seedlings growing from these ears are less resistant to infection and may, therefore, become infected readily on the germinator and in the field. Conspicuously moldy ears should never be considered for seed urposes.

Get the Free Service of Heatino Endin



Holland

ON'T let a furnace be "guessed" into your home. Do you know that millions of tons of coal are wasted annually in improperly installed furnaces? And do you know that over half the sickness, coughs, colds, etc., can be traced to poor home heating? Here is the furnace that is not sold on a hit-or-miss plan. It is installed only after its plan of installation has been prepared or approved by our chief heating engineer, Mr. V. W. Cherven, admittedly America's foremost home-heating engineer. During the war, the United States Government selected him as Superintendent and General Inspector of Heating and Ventilating of all its Industrial Housing projects. He designed and supervised the installation of over 3000 warm-air heating systems. His services are now given free to users of the

MR. V. W. CHERVEN Chief Heating Engineer of the Holland Furnace Company

The Furnace With the Cone Center Grate

Write and let us tell you about this service. If your home needs a new heating plant you will find exactly what you want in the HOLLAND. This furnace has made warm friends out of over 100,000 satisfied owners. It is now outselling every other furnace in America. Its increasing sales during the past few years have built up the largest furnace factory in the world. The big reason for its unusual success is found in nothing else than HOLLAND Construction and HOLLAND Service.

Cone Center Rocking Grate—All One Piece

Instead of a lot of parts, our grate is in one piece. Instead of sagging in the center, it is cone shaped. Instead of allowing the fuel to burn up through the center, like a volcano, it throws the fuel to the outside, where it burns from the sides and over the top. Air is mixed with the gas. Soot and gases are burned. You get all the heat from the fuel, not just in the center of the fire-pot, but out near the walls, where you get 100 per cent radiation. If you could talk with any of the warmfriend owners of a HOLLAND, you would know what a big saving in fuel this means. This cone center rocking grate is the easiest operating grate in the world. It

Rests On a Center Pivot

shakes so easily that a ten-year-old child can operate it. You can burn any kind of fuel in a HOLLAND Furnace without changing the grate.

HOLLAND Furnaces are built without bolts and with less joints than any other furnace made. They are backed with a permanent guarantee covering all material and workmanship.

Pipe or Pipeless Installation You can get the HOLLAND in any one of three different types of installation, the regular pipe-furnace installation with warm-air registers in all parts of the house, the improved pipeless installation with one register above the furnace for warm air, and separate flues for bringing cold air back to the furnace or

nues for oringing cord an other far-nace, or —the pipeless installation with only one big register, bringing warm air up through the center and allowing cold air to return down between the inner and

Mail the Coupon or a Postal

No matter what kind of a heating plant you want, get in touch with us. There has been too much "guessing" about furnaces. Don't guess about yours. The best furnace in the world will not give good service without the right kind of installation. Write and learn about the service that helps HOLLAND Furnaces make warm friends. Ask for Catalog No. F

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World's Largest Installers of Furnaces

Two Factories:

Holland, Mich., and Cedar Rapids, Iowa 150 Branches in Central States

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AND FURNACES **Make Warm Friends**

The Home

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Longfellow Flint White Cap Yellew Dent \$4.50 \$5.00 King of the Earliest 4.00 Improved Leaming 4.00 Pride of the North 4.00 (For Ripened Ensilage) 3.00 Reid's Yellow Dent 4.00 Leaming Fodder (For Large Ensilage) Wis. White Dent 4.00 Strawberry Dent Red Cob Ensilage 3.00 4.50

F. O. B. Ypsilanti All Shelled Corn 56 lbs. In Grain Bags 50c Each. Cash With Order. "MARQUIS" Spring Wheat at \$3.25 Per Bushel.

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Immediate or future shipments any quantity highest quality. Prices will not come down, so get in your order now and save money. Quotations made immediately on request. Address

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NORTHERN GROWN SEED CORN

Reid's Yellow Dent: Leaming; Pride of the North; White Cap Yellow Dent and Early Butler. Write for Price List.

THE PAGE-PHILIPPS SEED CO. Dept. G, Toledo, Ohio

SEED CORN FOR SALE

Golden Dent long grown and acclimated in Michigan, Deep kernels, large ear and stalk. A heavy cropper, In ear 70 lbs. \$5.00 Shelled per bu. \$4.00. C. B. COOK, R. I. Owosso, Mich.

Seed Corn for sale. Mich. Yellow Dent: this last 25 years and will mature at \$4.00 a bu including bags and also Plymouth Rock eggs at \$1.00 per setting of 18.

JOHN LOHMAN, R.3, Hamilton, Mich.

Seed Corn for sale. White dont, large car and stock, heavy cropper and very early. Planted on bottom land the past season June, 15th and matured before frost stuck it. 33.50 bushel.

I. R. NEHER, Ross, Mich.

SEED CORN. Old reliable Mich. Yellow Dent. Home grown, fire-dried and tested. Also regenerated Swedish Select and Scottish Chief Oats. Circular and samples on request. F. A. BYWATER, Memphis, Mich.

Northern Grown Choice Michigan Pea Bean Seed for Sale. These beans yielded 34 bus, per acre for last season. It pays to plant the best. Only 35 per bushel. Order early, J. P. SEILER, East Jordan, Mich.

MICHIGAN GROWN SEEDS for Michigan growers. Ask for catalog. Harry E. Saier, Seedsman, 115-119 E. Ottawa St., Lansing, Michigan

Seed Corn carefully selected; very early white over 97%. CHAS. SCHNEIRLA, R.2, Clinton, Mich.

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"Champion" Hay Tools

give you a wide range of choice. They include Mowers, regular or vertical lift 4½ to 7-foot cut; Tedders, 6 and 8 fork; Self Dump Rakes

in six sizes; Side DeliveryRakes; Combined Side Delivery Rakes and T'edders.





have many features that have made them first choice of discriminating farmers, for example:

Pitman connection is self-adjusting to take up wear.

The knife head is unusually long, giving added strength just

where breakage is likely to occur.
Outer end of crank box is closed and has an oil-tight chamber

Outer end of crank box is closed and has an oil-tight chamber that holds enough oil for several hours.

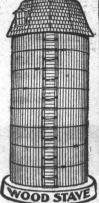
Fly wheel shield is made of malleable, rendering breakage unlikely. If broken, it can be replaced at small cost because it is a separate piece—not a part of main frame.

Coupling yoke is unusually wide, giving great leverage and holding cutter bar in alignment.

B. F. AVERY & SONS, Founded 1825 Louisville, Ky.

Buy Your Silo On Facts

Much is said and printed about silos that will not bear the Notary's seal, but Kalamazoo Silos require no misrepre-sentation to sell them. They are just what we say they are and the reputation of the largest factory of its kind-established thirty-five years ago—is back of every statement we make. Here are facts about



<u>Kalamazoo</u>

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"The World's Standard"

They are scientifically designed; constructed of highest grade materials; built to withstand the ravages of time and sold at a fair and reasonable price. They give absolute, lasting, positive satisfaction and increase the selling value of the farm far more than their cost.

Glazed Tile Silos

"Permanent as the Pyramids"fire-proof, frost-proof, storm-proof, moisture-proof, acid-proof, decay-proof, vermin-proof. Galvanized reinforcing. Require no paint, no upkeep expense or repairs. First cost is the last cost.

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Your choice of four of the best time-defying woods. Quickly and easily erected even by inexperienced labor. All Kalamazoo Silos, whether wood or tile, have the famous Kalamazoo Gal-vanized Steel Door Frames, and conrepairs. First cost is the last cost.

Easy to build—and once built your silo problem is solved forever.

vanized Steel Door Frames, and co tinuous doors which are universally recognized as the best ever designed. which are universally

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We offer special inducements to early buyers and easy terms to those who can not pay cash. Write for illustrated catalog at once. The time to get posted is before you get busy with other farm work.

Kalamazoo Tank & Silo Co. Dept. 223 Kalamazoo, Mich.

HARROWS

flexible wood beam and Spring tooth harrows direct from factory to you at wholesale prices.

Helena Woodworking Co., Helena. O.

Montion The Michigan Farmer When Writing Advertisers



The Rural Motor Express

(Continued from first page).

ing to war conditions."

for some kind of service such as would motor car owners, brick manufacturthat horses that eat the crops of mil- and other necessities of life. lions of acres might be largely dispensed with and the land used to pro- motor-driven vehicles over the highprices to the consumer and greater stuffs which decayed in the fields due profit to the producer.

that we should fail to bring goods to veyor convey. tem, and their development, both as to of production, may be supplied with an

degree the shortage of man power ow- of road in the United States at the rate of \$5,000 per mile. Don't try to do it Herbert C. Hoover awoke the people all at once. Let the State Highway of this country to the urgent necessity Commissions, the federal government, be rendered by the establishment of ers, concrete, cement and supply firms the rural motor express lines. Mr. confer and cooperate and proceed to Hoover called to our attention, after a organize a system where sooner or latnation-wide survey, that approximatley er the two million one hundred and fifty per cent of the perishable food ninety-nine thousand miles of highway products of the country was annually receive ample and honest treatment, wasted for want of efficient transporta- and in doing so let us build a hightion facilities. He pointed out that way that is going to be useful in the with motor express lines the farmer distribution of our commodities, merneed not maintain so many horses and chandise and products of the farms,

"In advocating the extended use of duce food crops. Mr. Hoover believes ways of the nation I am endeavoring that a developed motor express system to provide for the commercial convenwill lead to the establishment of public iences of the public. In 1916, following markets and give them a basis of eco- an appeal for increased food producnomic success with resultant lower tion, farmers raised many tons of food to inadequate means of conveying the Hon. William C. Redfield, Secretary same to market. It is proposed through of Commerce, points out that in order the establishment of motor vehicle to secure a perfect transportation sys- truck routes to partially eliminate such tem, railways, waterways and rural waste. It is, nevertheless, important highways must be linked together. He in essential occupations to use modern advises that even if we had an abund- mechanical devices to encourage the ance of railways and waterways and construction and improvement of highlacked the use of highways, we should ways, to let the producer produce, still have imperfect transportation; the consumer consume, and the con-

every man's door, and that the system "Thus thousands of individuals who must bring the goods to every man's may be encouraged to take up land door in order to be perfect. "I told and improve it at the public expense, the Director General of Railways," said and to utilize moneys provided by the Mr. Redfield, "that two-thirds of the farm loan boards for production therejob was fairly well in hand, but that he on, and thousands of individuals who had left out one-third and that he may be encouraged to accept employwould not get his unity complete until ment in industrial enterprises in great he had made it a trinity by taking in cities, in order that manufactured artithe rural highways. I told him that cles and commodities may be produced the highways, as a transportation sys- more cheaply through greater quantity



reach its normal place as a servant of the farm or in the city. the people unless linked with motor truck routes."

ant Postmaster-General, who is in ia, from New York to Chicago, from charge of rural postal delivery, is one Indianapolis via Atlanta to Montgomof the most enthusiastic supporters of ery, and with a total annual appropriathe rural motor express idea. Mr. tion of \$300,000 the gross postage rev-Blakslee has made a large study of enue of this highway and adjacent this subject, and because of the exist- roads leading to the same averages oving motor routes, has facts and figures er \$2,000,000 per year. In fact, these to give in support of his belief.

"There are two million one hundred at a cost of eighteen cents per mile. highways in the United States," Mr. to include the

dollars! We would have to go into with and do business with one another. debt in order to improve every miles. "Many of the patrons of meter truck

roads and means of using the roads, avenue whereby the increased producwere quite as essential as the other tion may be distributed and sold, two. I am convinced that neither will whether such production originates on

"Transportation by motor truck routes is now in daily operation from Hon. Jas. I. Blakslee, Fourth Assist- Portland, Maine, to Richmond, Virginrevenues are sixty-two cents per mile

and ninety-nine thousand miles of "I have prepared a definite program Blakslee recently said. "Why, there of conveyance between any two large is more highway in one state than markets, through producing territory there are railroads in the whole coun- not adjacent to rail or water transpor-, try. Consequently, it is time that the tation in order that individuals domcountry forthwith take notice of what iciled therein or thereon might trade shall be done with those two million directly with one another. I have premiles of highway. If we were to de-sented a specific proposition for the imcide to improve all this mileage right provement of our highways. I have innow, we would expend an average of terested myself in the disposition of not less than \$5,000 per mile, or a products transported in motor trucks grand total of more than ten billion over the highways so that merchants or manufacturers, farmer or dairyman, "Let us look at facts. Ten billion can easily and quickly communicate



routes in the city of Washington have not paid more than an average of sixty cents per dozen for their strictly fresh eggs in the past six weeks, during which time the average retail price has been seventy-five cents. How to extend this advantage, which certain citizens of Washington enjoy because of their familiarity with the avenues of communication and the location of the cheapest sources of production, to the general public is the question that is under consideration at this time. Naturally it will require months of study and investigation.

"We have twenty-six million producers in this country attempting to feed themselves and seventy-four million more of people, and the proportion of producers to consumers is lowered daily. There is a tendency of producers to leave the farm and go to the city. This indicates that in the future the cost of living is not going to be reduced because of the greater supply of producers. Consequently we must introduce some form of service, some form of conveyance, whereby one producer or five producers double their production and thus offset the tendency of individuals to leave the farm and go to the city.

"We have a string around our throats. We haven't the capacity on three hundred and forty thousand miles of railroads to transport all that you would like to ship. We may transport all we must ship but we can't afford all we want to ship. There are three thousand miles of canals nine months of the year doing business in another territory, the other three months waiting for the ice to thaw out."

The opinion among the leading men of the country, who have made a study of this rural express proposition is that it will be the quickest way to end the troubles of transportation and to make the farming sections efficient in food production and give the farmer a larger share of the consumer's dollar.

A POINTER ON TYING FLEECES.

S OME weeks ago a party of county agents were being shown through a wool-scouring mill in one of the large middlewest cities. They wanted to learn things that they could take back to help their home folks. At one point the manager of the mill called their attention to the kind of twine to use in tying the fleeces. He picked up a handful of partly scoured wool and pointed out dark fibres. These, he said, were the fibres from binder twine which were left in the fleece when it was unbound at the warehouse or mill.

It is the custom of the fleece handlers to cut the cord holding the fleece together and pull it out. If common binder twine is used some of the fibres are sure to catch in the fleece and be left there. They do not take the dye and so are very objectionable to the woolen manufacturer. He will not pay the price for such fleeces that he will for those which do not have the fibres mixed with the fleece. The manager of the mill said it did not pay to pick out the fibres, and showed how a good cotton or paper string pulls out of a fleece without leaving fibres. If a few cotton fibres should be left it should not be harmful, as the cotton takes the dve.

The paper twine has a hard, smooth surface and is best from all standpoints. It probably costs no more than any other kind of tying material, probably less than binder twine since it has soared to present prices.





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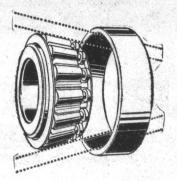
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TIMENTAPER



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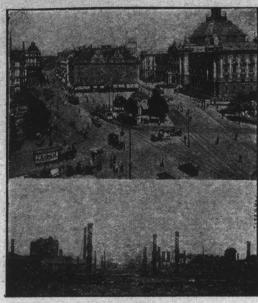
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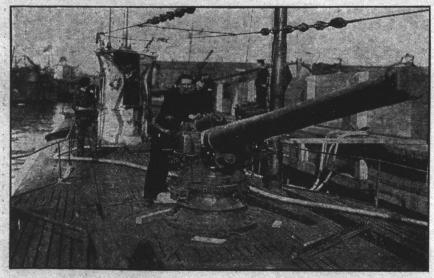
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Her One Hundredth Birthday

By J. H. Brown

wife out for a ride to Albion and back Tuesday, May 13, Grandma Blakeley, if to Battle Creek. He drove to a certain she lives, will be one hundred and one house in Albion and asked his wife to years old. get out. Then he went in and asked Farming in Michigan was somewhat a certain widow lady to go out with crude when Juliet Calhoun was marout to the car and got into the front before it was admitted as a state in already grounded.

Now, what do you think o' that?

this tale.

13, 1918. A big celebration was being anyone. held in her honor in her own home and in the first Methodist Episcopal church of that city.

ty historical and pioneer association, And, instead of using some portrait cooking and general housekeeping. picture that had been taken some time previous, we wanted one that was upto-date and showed some action. And

We drove our car to Albion that day tionally set for the second Sunday in days go by.

girls half her age. We opened the car cities. door and assisted her in just as we our own for keeps.

took her picture in the car to remem- ed the front page, with this caption unber her by. We doubt whether there

WELL-KNOWN and supposedly are many farmer readers of this paper sensible farmer of Calhoun coun- who ever took girls out on such a stunt ty, one day last spring took his on their one hundredth birthday. Next

him for a ride. This lady accepted the ried and came with her husband to Calinvitation, took his arm and walked houn county, Michigan territory, just seat. The farmer's wife stood on the 1837. Just think of it! She was ninelawn and watched the proceedings teen years old and they settled in the with considerable interest. It was a wilderness near where Homer stands. rather unusual thing, to say the least, A little later they moved to "The and the reader will immediately decide Forks," as Albion was then known, that the farmer's wife had grounds for consisting of only five buildings. Mrs. starting something. In fact, she was Juliet Blakeley from that time to the present has seen more of the kinks and problems of pioneer farm life and prac-But, wait a minute! That isn't all tice than almost any other reader of of it. And, if you will promise not to the Michigan Farmer. It is now eighsay a thing about this to a single soul, ty-two years since she was married we'll tell you all about it. Then you and came to Calhoun county, yet this can fix up your own moral to adorn woman has more than kept up with the times. She owns a fine automobile The widow referred to was just one and can drive it herself. She can see hundred years old that very day, May without glasses and hears as well as

She joined the local organizations in war work, and registered for active service. She donated her car for one-Being an officer of the Calhoun coun- half the time during the past year for war service. She was one of the first we wished to take a picture of this to register her experience in farming, woman on her one hundredth birthday. gardening, care of children, cleaning,

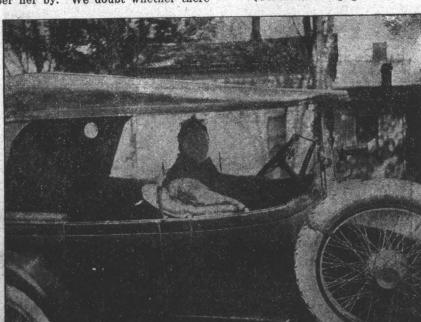
> "Have you anyone who is dependent upon you?" she was asked.

"Oh, yes, I have one son, and he we got it, as the accompanying picture needs me just as much as he ever did," she replied.

When it is well known that her son early in the afternoon and pulled up at is a strong, healthy boy of fine phythe curb in front of the fine home of sique, good looking, only three-quart-Mrs. Juliet Calhoun Blakeley. Then ers of a century along and thoroughly we went in and paid our respects to domesticated, one fully appreciates "Grandma Blakeley." The house was Grandma Blakeley's solicitude conwell filled with friends and relatives, cerning him. It has been quite a spell The day previous was Sunday, and since he went in swimming without "Mothers' Day" had been celebrated her consent, and he is called a pretty in the fine church in that city. Grand- good boy to mind, generally speaking; ma Blakely is considered the originator still, his mother continues to feel her of "Mothers' Day" and the day is na- responsibility for his conduct as the

The son, Charles C. Blakely, is a When we asked this one-hundred-widely prominent and eminently sucyear-old lady to go for a ride with us, cessful business man of affairs at home she took our arm and walked through and elsewhere. For about half a centhe rooms of the spacious house to the tury he has been traveling over the front porch, down the high steps and country and has a large acquaintance walk to the curb, as easily as some among the business men of the larger

Everybody knows Grandma Blakeley used to do to girls considerably young- is a Methodist. Albion College and the er in the days before we had a girl of church observed "Mothers' Day" and her one hundredth birthday by print-We'll never forget that day we took ing a fine memorial program for the our oldest girl out for a ride. And we day. A full-page picture of her adorn-(Continued on page 741).



We Took Her Picture in the Car to Remember Her By.



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Stop those leaks JOHNSON'S RADIATOR CHANKI Mends Leaky Radiators

S.C. MOPOSON (SON HE easiest and quickest way to repair leaks in radiators, pumps, water jackets, hose connections, etc., is to use Johnson's Radiator Cement. This will stop the leaks instantly without laying up the car. No mechanical experience is required—all you have to do is remove the cap and pour the liquid into the radiator.

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"Beyond the Frontier"

"Do you love me, Monsieur?" "Mon Dieu-yes."

woman, a mere girl, and this is my one his hands. chance to save myself from hell. I am him husband."

det said earnestly. "You must think of her as well as yourself."

your words? Would you give up all Rene will descend and join us." for me?'

"Yes, Monsieur."

"But do you know what your choice you safe beyond the Iroquois, 'tis my means?"

darkness.

know; the choice is made-will you the hour?" take me?"

Then I was in his strong arms, and for the first time, his lips met mine.

CHAPTER XXXI. We Reach the River.

was the voice of Boisrondet which recalled us to a sense of

"It is late, and we must not linger here," he insisted, touching De Artigny's sleeve. "The guard may discover your absence, Rene, before we get beyond the stockade. Come, we must move quickly."

"Ay, and with more than ever to give us courage, Francois. Yet how can we get Madame safely over the logs?"

"She must venture the same as we. Follow me closely, and tread with

So dark was the night I was obliged to trust entirely to De Artigny's guidance, but it was evident that both men were familiar with the way, and had thoroughly considered the best method of escape. No doubt De Tonty and his young lieutenant had arranged all details, so as to assure success. We traversed the flat roofs of the chain of log houses along the west side of the stockade until we came to the end. The only light visible was a dull glow of embers before the guardhouse near the center of the parade, which revealed a group of soldiers on duty. The stockade extended some distance beyond where we halted, crouched low on of the frontier, and do not fear the the flat roof to escape being seen, woods. Ah- he has reached the rock There would be armed men along that wall, especially near the gates, guarding against attack, but the darkness ing, no movement to be perceived. The two men crept to the edge, and looked cautiously over, and I clung close to De Artigny, nervous from the silence, and afraid to become separated. Below us was the dense blackness of the port, but do not keep me waiting long

"This is the spot," whispered De Arthe rocks?"

fifty feet of rope here. The rock shelf yet I dare not release my grip, or utis narrow, and the great risk will be ter a sound. I sank down, down, the not to step off in the darkness. There strain ever greater on my nerves. I taut, Rene."

ing a little.

"Here, or not at all; there are per gave me cheerful greeting. guards posted yonder every two yards. down into the darkness below, until it ing now." hung at full length. "It does not touch," I could see nothing, not even the

the risk. I go first Rene-hush! tisbest so-the lady would prefer that "Then there is no sacrifice. My heart you remain, while I test the passage. would break here. God! Would you The devil himself may be waiting doom me to live out my life with that there." He gazed down, balancing himbrute-that murderer? I am a young self on the edge, the cord gripped in

"Now mind my word; once on the not afraid of the woods, of exile, of rock below I will signal with three anything, so I am with you. I would jerks on the cord. Haul up then slowrather die than go to him-to confess ly, so as to make no noise; make a noose for the lady's foot, and lower "The lady is right, Rene," Boisron- her with care. You have the strength?"

"Ay, for twice her weight." "Good; there will be naught to fear, "Think of her! Mon Dieu, of whom Madame, for I will be below to aid your else do I think. Adele, do you mean footing. When I give the signal again

> "The rope is to be left dangling?" "Only until I return. Once I leave

part to climb this rope again. Some I stood before him, brave in the task that," cheerfully, "yet De Tonty deems it best that no evidence connect 'Monsieur, I have faced it all. I us with this escape. What make you

"Between one and two."

"Which will give me time before daydawn; so here, I chance it."

He swung himself over the edge, and slipped silently down into the black mystery. We leaned over to watch, but could see nothing, our only evidence of his progress, the jerking of the cord. De Artigny's hand closed on mine.

"Dear," he whispered tenderly, "we are alone now-you are sorry?"

"I am happier than I have ever been in my life," I answered honestly. have done what I believe to be right, and trust God. All I care to know now is that you love me."

"With every throb of my heart," he said solemnly. "It is my love which makes me dread lest you regret."

"That will never be, Monsieur; I am



safely-'tis the signal."

De Artigny drew up the cord, testing it to make sure the strands held gave us no glimpse. There was no fir- firm, and made careful noose, into which he slipped my foot.

"Now, Adele, you are ready?" "Yes, dear; kiss me first." "You have no fear?"

"Not with your strong hands to supbelow."

Ay, but I was frightened as I swung tigny, "and no alarm yet. How far to off into the black void, clinging desperately to that slight rope, steadily sink-"De Tonty figured the distance at ing downward. My body rubbed against forty feet below the stockade; we have rock. Once a jagged edge wounded me iron ring here somewhere retained no knowledge of distance, but -ay, here it is; help me draw the knot grew apprehensive of what awaited me below. Would the rope reach to the "Do we-do we go down here, Mon- rock? Would I swing clear? Even as sieur?" I questioned, my voice falter. these thoughts began to horrify, I felt a hand grip me, and Boisrondet's whis-

"It is all right, Madame; release your This is our only chance to escape un. foot, and trust me. Good, now do not seen." Boisrondet tested the rope, let- venture to move, until Rene joins us. ting it slip slowly through his hands Faith, he wastes little time; he is com-

he said, "yet it cannot lack more than outlines of my companion, who stood a foot or two. Faith! We must take holding the cord taut. I could feel the jagged face of the rock, against which I stood, and ventured, by reaching out with one foot, to explore my immediate surroundings. The groping toe touched the edge of the narrow shelf, and I drew back startled at thought of another sheer drop into the black depths. My heart was still pounding when De Artigny found foothold beside me. As he swung free from the cord, his fingers touched my dress.

"A fine test of courage that, Adele," he whispered, "but with Francois here below there was small peril. Now what next?"

"A ticklish passage for a few yards. Stand close until I get by; now cling to the wall, and follow me. Once off this shelf we can plan our journey. Madame, take hold of my jacket. Rene, you have walked this path before."

"Ay, years since, but I recall its peril."

We crept forward, so cautiously it seemed we scarcely moved, the rock we traversed so narrow in places that I could scarce find space in which to plant my feet firmly. Boisrondet whispered words of guidance back to me, and I could feel De Artigny touch my skirt as he followed, ready to grip me if I fell. Yet then I experienced no fear, no shrinking, my every thought centered on the task. Nor was the way long. Suddenly we clambered onto a flat rock, crossed it, and came to the edge of a wood, with a murmur of water not far away. Here Boisrondet paused, and we came close about him. There seemed to be more light here, although the tree shadows were grim, and the night rested about us in impressive silence.

"Here is where the river trail comes down," and Boisrondet made motion to the left. "You should remember that well, Rene."

"I was first to pass over it; it leads to the water edge.'

"Yes: not so easily followed in the night, yet you are woodsman enough to make it. So far as we know from above the Iroquois have not discovered there is a passage there. Listen, Rene; I leave you now, for those were De Tonty's orders. He said that from now on you would be safe alone. Of course he knew nothing of Madame's pur-

"Monsieur shall not find me a burden," I interrupted.

"I am sure of that," he said gallantly, "and so think it best to return while the night conceals my movements. There will be hot words when M. Cassion discovers your escape, and my chief may need my sword beside him, if it comes to blows. Is my decision to return right, Rene?"

"Ay, right; would that I might be with you. But what plan did M. de Tonty outline for me to follow?"

"'Twas what I started to tell. At the edge of the water, but concealed from the river by rocks, is a small hut where we keep hidden a canoe ready fitted for any secret service. 'Twas Sieur de la Salle's thought that it might prove of great use in time of No doubt it is there now just as we left it, undiscovered of the Iroquois. This will bear you down the river until daylight, when you can hide along shore."

"There is a rifle?"

"Two of them, with powder and ball." He laid his hand on the other's "There is nothing more shoulder. say, and time is of value. Farewell, my friend."

"Farewell," their fingers clasped. "There will be other days, François; my gratitude to M. de Tonty." Boisrondet stepped back, and, hat in hand, bowed to me.

"Adieu, Madame; a pleasant jour ney."

"A moment, Monsieur," I said, a falter in my voice. "You are M. de Artigny's friend, an officer of France, and a Catholic."

"Yes, Madame."



"I found the fol-

lowing saving with the Grain-Saving Stacker: Wheat, 10 bu. to every 1000 bu. threshed; oats, 25 bu. to the 1000; barley, 15 bu. to the 1000." Report of F. L. W Kennard, Agronomist, Uni-versity of Min-

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Buffalo Pitts Co., Buffalo, N. Y.
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Emerson-Brantingham Co., Rockford, Ill.
Farmers Independent Thresher Co.,
Springfield, Ill.
A. B. Farquhar Co., York, Pa.
Frick Co., Waynesboro, Pa.
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Keck-Gonnerman Co., Mt. Vernon, Ind.
Minneapolis Threshing Machine Co.,
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The Grain-Saving Device Originated with The Indiana Manufacturing Co.,
Indianapolis, Ind., Who Also Originated the Wind Stacker

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The Michigan Farmer, Detroit

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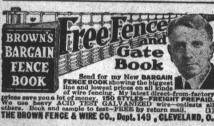


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THE ARLINGTON MFG. CO.





MICHIGAN GROWN SEEDS an, 115-119 E. Ottawa St., Lansing, Michigan. worthy of my womanhood?"

he bent forward to kiss my hand.

on the frontier. I leave to the priests oe was gone. the discussion of doctrines, and to God my punishment and reward. I can only answer you as De Artigny's friend, and an officer of France. I give you honor, and respect, and deem your love and trust far more holy than your maryours' Madame."

I felt his lips upon my hand, yet knew not he had gone. I stood there, my eyes blinded with tears at his gallant words, only becoming conscious of his disappearance when De Artigny drew me to him, his cheek pressed against my hair.

"He has gone- we are alone-"

"Yes, dear one; but I thank God for those last words. They have given me courage, and faith. So my old comrades believe us right the criticism of others does not move me. You love me, Adele? you do not regret?"

My arms found way about his neck; my lips uplifted to his.

"Monsieur, I shall never regret; I

trust God, and you."

How he ever found his way along that dim trail I shall never know. Some memory of its windings, together with the instinct of a woodsman, must have given guidance, while no doubt his feet, clad in soft Indian moccasins, enabled him to feel the faint track, imperceivable in the darkness. It led along a steep bank, through low, tangled bushes, and about great trees, with here and there a rock thrust across the path, compelling detour. The branches scratched my face, and tore my dress, confusing me so that had I not clung to his arm, I should have been instantly lost in the gloom. Our advance was slow and cautious, every step taken in silence. Snakes could not have moved with less noise, and the precaution was well taken. Suddenly De Artigny stopped, gripping me in warning. For a moment there was no sound, except the distant murmur of waters, and the chatter of some night bird. Yet some instinct of the woods held the man motionless, listening. A twig cracked to our left, and then a voice spoke, low and rumbling It sounded so close at hand the fellow could have scarcely been five yards away. Another voice answered, and we were aware of bodies, stealing along through the wood; there was a faint rustling of dead leaves, and the occasional swish of a branch. We crouched low in the trail, fairly holding our breath, every nerve tense. There was direction one warrior-I could see the dim outline of his naked figure—passed

within reach of my outstretched hand. Assured that all had passed beyond hearing De Artigny rose to his feet, grasping mine.

them to mean mischief. I would I gleam of light appeared; not a sound knew their language."

"'Twas the tongue of the Tuscaror- about me. as," I answered. "My father taught me "I would that I knew what was going a little of it years ago. The first words on yonder 'neath the screen of trees, all asleep."

'And I am not sure but that is true. the lads fair warning." If De Tonty was in command the walls would be well guarded, but De Baugis. war."

without a purpose. But, pouf, there is little they can do against that stockade sieur?" of logs for all their numbers. It is our duty to be well away by daylight."

"And you think that I am right in ter's edge was not far-a direct demy choice? that I am doing naught un- seent amid a litter of rocks, shadowed by great trees. Nothing opposed our Even in the darkness I saw him passage, nor did we hear any sound make the symbol of the cross, before from the savages concealed in the forest above. De Artigny led the way "Madame," he said gravely, "I am along the shore until we reached the but a plain soldier, with all my service log hut. Its door stood open; the can-

CHAPTER XXXII. We Meet Surprise.

TOT until we had felt carefully from wall to wall did we admit our disappointment. There were riage. My faith, and my sword are no overshadowing trees here, and what small glimmer of light came from the dull skies found reflection on river and rocks, so that we could perceive each other, and gain dim view of our surroundings.

> Of the canoe there was absolutely no trace, and, if arms had been hidden there also, they had likewise disappeared. The very fact that the door stood wide open, its wooden lock broken, told the story clearly. I remained silent, staring about through the semidarkness of the interior, rendered entirely speechless by a feeling of utter helplessness. De Artigny, after an utterance of disappointment, felt his way along the walls; as he came back to the open door our eyes met, and he must have read despair in mine, for he smiled encouragingly.

"Swept bare, little girl," he said. "Not so much as an ounce of powder left. The savages got here before us, it seems. Never mind; we shall have to travel a ways on woodcraft, and it will not be the first wilderness journey I have made without arms. Did De Tonty mention to you where he believed the Illini were in hiding?"

"No, Monsieur-are they Indians?" "Yes; the river tribes, the most loyal of all to La Salle. It was one of their villages we saw on the bank of the stream as we approached the fort from the west. I told Boisrondet that it stood there deserted, but not destroyed, and it was our judgment the inhabitants were hiding among the river bluffs. Without canoes they could not travel far, and are probably concealed out yonder. If we can find them our greatest peril is past."

'They are friendly?' "Ay, and have never shed white blood. I know them well, and with leadership they would be a match even for the Iroquois. De Tonty led them once against the same warriors, and they fought like fiends. Come, we will follow the stream, and see if we cannot

find trace of their covert." It was but a cluster of rocks where the hut stood, and a few yards below we found the forest creeping down to the very bank of the river. The sky had lightened above us, the obscuring no sound from below, but in the other clouds opening to let the silver gleam of stars through, and we paused a moment gazing back, and upward at the vast rock on which perched the beleaguered fort. We could dimly perceive the vague outline of it silhouetand assisted me to rise, his hand still ted against the lighter arch of sky. In massive gloom and silence it seemed "Iroquois, by the look of that war- to dominate the night, the grim forest rior," he whispered, "and enough of sweeping up to its very walls. Not a reached us. I felt De Artigny's arm

spoken were a warning to be still; the he said gravely. "Some Indian trick, other answered that the white men are perchance, which it might be in my power to circumvent-at least bear to

"You would risk life for that?"

"Ay! my own readily. That is a lesand Cassion know nothing of Indian son of the wilderness; the duty of a comrade. But for your presence I "You believe it to be an assault?" should be climbing the hill seeking to "It hath the look; 'tis not Indian na- learn the purpose of those savagesture to gather thus at this night hour, else I was no true soldier of France."

"What think you their purpose, Mon-

"An attack in force at dawn. Those who passed us were heavily armed, and The remaining distance to the wa- crept forward stealthily, stripped and

painted for war. There were other parties, no doubt, creeping up through the woods from all sides. 'Tis my thought the hour has struck for them to make their great effort. They have scattered the friendly Indians, killed them, or driven them in terror down the river. Their villages have been destroyed. Now all the warriors who have been at that business have returned, filled with blood lust, and eager to strike at the French.'

"But they cannot win? Surely they cannot capture the fort, Monsieur? Why it is all rock."

"On three sides-yes; but to the south there is ample space for attack in force. Those woods yonder would conceal a thousand savages within a few hundred yards of the fort gates. And what of the defense? Opposing them is one hundred and fifty feet of stockade, protected at best by fifty rifles. There are no more in the fort, officers, Indians, and all; and Boisrondet says scarcely a dozen rounds of powder and ball to a man. If the Iroquois know this-and why should they not?-'twill be no great feat of arms to batter their way in. I would do that which is right, Adele, if I saw clearly.' (Continued next week).

HER ONE HUNDREDTH BIRTH-DAY.

(Continued from page 736). derneath: "Mrs. Juliet Calhoun Blakeley, was born May 13, 1818.

We wonder if there is another man or woman living in the entire world whose first birthday was in the year that had two eighteens in it, and is now celebrating the one hundred and first birthday in the year with two nineteens, like Grandma Blakeley.

In May, 1908, Miss Ann Jarvis, of Philadelphia, invited a friend to spend Sunday with her in memory of her mother's death; and out of that meeting the idea of a national "Mothers' Day" was born. In 1913 a resolution was introduced in the senate in favor of the appointment of such a day; and in 1914 President Wilson officially appointed the second Sunday in May as "Mother's Day." But for years before that Albion was observing the second Sunday in May as Mothers' Day in honor of the birthday anniversary of the church's oldest member, Mrs. Juliet Calhoun Blakeley.

MOTHER.

BY L. W. SNELL.

When home from school us children
Came scamp'ring down the street,
We'd never mind the apple tree
That begged us stop and eat.
We'd never mind the ball bat
That lay beside the gate,
Nor stop to see why Jimmy
Was a'whistling us to wait.

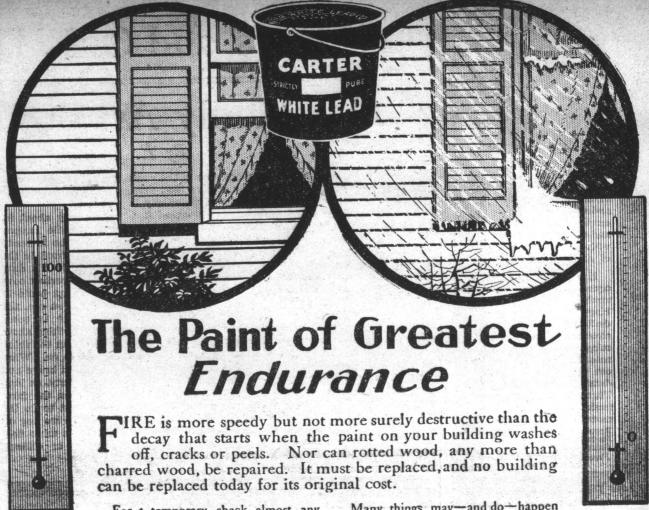
We never thought we's home, then 'Till we'd seen mother's smile Of welcome at the window.
It seemed the longest mile Until we reached the corner, That turned into our lane But soon's we saw her smiling We'd feel we's home again.

Our mother at the window
Just smiling at us there,
Was 'bout the sweetest picture
You'd find most anywhere.
And if as seldom happened
She wasn't there, well, then,
We'd have to hunt and find her
'Fore we'd feel we's home again.

Off'times I get a thinking
Of boyhood days of yore,
Of scenes and home-town faces,
And yearn for them once more.
The village streets so shady,
The kindly people, too,
Who always took an interest,
In the things I used to do.

So I travel to the village
I loved when I's a kid,
And I look the old town over
But it don't seem like it did
'Till at last I turn the corner,
And get started up the lane,
See mother at the window,
Then I feel I'm home again.

these fourth by the trace and



For a temporary shack almost any paint will answer, but any permanent building that is worth the protection of fire insurance is worth protecting from the weather and should be painted with pure white lead and linseed oil, the paint of greatest endurance.

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When the paint used is Carter White Lead, thinned with a brand of linseed oil of recognized purity, you have provided the very best paint that money can buy and you will get your weather insurance at the lowest possible cost per year.

to there anything you would like to know about paint or painting? If so, write to our Paint Information Bureau.

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Red Cob Ensilage 3.00	Rape Seed, per pound15
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map, price and typewritten description of exceptionally well located tracts of clover land in Marinette County In writing be sure to state what acreage you might want and whether you have any property that would have to be sold before you could purchase land. The special bargain tracts are going fast. Write today. SKIDMORE LAND CO., 331 Marinette, Wisconsin.

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new woven whre fence, small spring brook never dry,
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A good farm in exchange for a stock of General Merchandise—well located in country town.
Address C. A. Carson, Plymouth, Mich.

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Our Boys' and Girls' Department

The Manly Art of Giving Up

By E. L. Vincent

in these days of fine things done of whom my boy writes. by the soldier boys over in France.

way related to you, how much more in- task.

of the stories which come to us have been just as ready as were those of the road, character says: "Do it

It may be some of the Michigan Farm- that it does once in a while happen story for all the world to read, but beer boys have for a long time been keep- that the boy or the girl who is ready cause this is the thing we ought to do ing such a record. If they have, the and willing to step to the front in the just now. day will come when it will be worth time of great crisis and do his duty its weight in gold as a source of inspir- like a man, will fail like a perfect cow- winter. We begin with a ball no larger ation to boys and girls of a future gen- ard when far smaller things come to than one's head; but as we roll it And surely whether the accounts of incentive of companionship is gone, it gathers up thick flakes, layer upon the many heroic deeds done have been Nobody will ever know anything about layer, until at last we have a miniapreserved in scrap-books or files for it if we do or do not perform the thing ture mountain that can scarcely be reference after the war is over, thou- that is placed before us to do. What moved an inch farther. sands of our young people have stored is the use of being true and brave and these stories away in memory, so that responsive to the call of duty, as long As we go along, life gathers up all the they will never be forgotten. Don't as it is away back here on the farm things we do, good, bad and indiffer-you like to tell them over when you out of sight? So we dread to do the ent; and the sum total of them all is are in company with other young little things, and it may be we beg off character. The more good and clean folks? And if the one who does some and shirk when father asks us to help and pure things we bring into our ball, daring thing is a brother or in some him in some unpleasant or difficult the finer is our characters. Sticks and

BIG scrap-book might be made one of their number, not one but would is looking. Back lot or out by the side because it is right." Not because it Now, what I am thinking about is, will make men praise us and write the

> Rolling big snowballs is fine sport in him on the farm to do. You see, the along on the white snow-covered earth,

> > Character making is quite like that. stones and all sorts of unclean things sometimes roll up on our snowball if we go where they are and do not take pains to throw them out. To keep the great snowball of character spotless by shunning the base and the unworthy things is one of the grandest things any young man or woman on the farm

That means loyalty to the right, always and everywhere. It means speaking well of one's work and loving it to the limit. It means trusting father and mother to guide us out into the field of right endeavor. It means unswerving obedience when the call comes to serve. It means sympathy for others, even to giving the best there is in one. It means a high ideal and a determination never to let that ideal be dragged in the dust. It means putting the very best there is in one into the terest you have, and how proud you And yet, right here is a chance to humblest task of life, and doing it are to repeat the tale everywhere you prove just what is deep down in our cheerily and with a song. It is a great natures. Are we just as true, just as thing to give of one's very life blood And how sure you are that if you earnest, just as faithful in the every- for another. It is a greater thing to had been across seas, and the chance day life of the farm as we would be learn how to give up selfishness and had come to you that came to the boys on the field of battle over in Flanders? meanness and unworthy ambition for Have you ever thought about the the sake of the greater good of others. wonderful thing we call character? That makes a man a man in the best the bravest. You would have "gone That is the thing we are a thousand sense of the word. It is the only thing



Off For a Ride with Billy.

may go.

whose heroism you love to recount, you, too, would have been as brave as over the top" in the very first rank. miles out in the country, when no one worth while. You would have distinguished yourself everywhere and won the distinguished service cross with the rest. And it sometimes seems a good deal easier to do some extra good thing when others are proving themselves courageous. Then there is an inspiration that car-

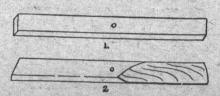
wounded boys who have come under made. his care was one who had been strickfast drifting out. This is the way my bore a hole about a quarter of an inch boy writes us about it:

be willing to make the sacrifice of giv- through from side to side, as sho ing up some of his blood for the sick soldier, I stepped to the entrance of the ward where the convalescent influenza patients were, and called out: Who will give some of his blood for Gibson?" Almost to a man they stood up and shouted out, 'I will!'" And then the captain paid this tribute to the soldier boys who were so ready to boys anywhere else in the world."

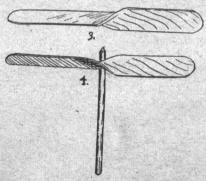
A Simple Flying Machine

I have a boy who has been serving et knife, get a gimlet from the tool commences to resemble the blade of a as captain in a hospital in battle-scar- house, then come with me out by the red France. Among the many sick and wood pile and I'll show you how it's

First, we get a piece of wood about en with a fatal disease. As a last re- five inches long, one inch wide, and sort it was decided to try transfusion half an inch thick. Soft wood is best of blood in the hope that this would as it is more easily worked. Right in bring back the tide of life that was the middle of it and on the flat side we in diameter, taking care not to split "When I was wondering who would the wood, and making the hole right



W ELL, boys, suppose we try mak- until we have one end of the wood aling a flying machine this week. most up to the hole, in the form of a ries us over the most difficult places. Sharpen up the big blade of your pock- slanting blade, but very thin. It now



ship propeller or that of an airplane. Now round the corners of the blade to improve the appearance. ishes one end of the blade. We do the same with the other end of the piece of wood, except that we cut away, not make this supreme sacrifice for their illustration No. 1. A little distance the same corners as we have cut away fellow: 'I tell you, there are no such from this hole at one side we cut away in the first end, but the opposite corthe corner until we get it down to look ners. Then we shall have the two ends But I think if any of the boys who like illustration No. 2. Now we begin cut away to this form of thin blades, read this story had been there and had at the opposite corner at the same but the slope of the one will be oppohad this chance to do a fine thing for end of the wood, and cut it away also site from that of the other, as shown

in illustration No. 3.

care not to split the blades.

stem between the palms of the two soar high every time.

hands, then rub the hands together Now we must fix a stem firmly into quickly, and release the machine as we the center hole. A butcher's meat make it spin. It should soar aloft as skewer, a wooden penholder, or even high as the roof of a house if we have a thin lead pencil, will do for the stem. done it properly. If not, we may find The stem may be any length from six that the toy strikes the ground at once to nine inches. We may glue the stem instead of flying. If so we may know into the hole, but it is not really nec- that we have spun it in the wrong diessary. If we push it in firmly, taking rection before releasing it and must try again. A little practice will enable Now hold the toy upwards with the us to release it properly and make it

Prize Contest Letters

The first prize in our letter contest, "How I Earned my First Dollar," was won by Anna Mc-Cully, Pittsford, Mich.

Her letter appears below, with two others which, in our opinion, deserve honorable mention.

The winning letter entitled, "The Best War Story I Ever Heard," will be published next week.

FIRST PRIZE.

How I Earned My First Dollar.

some real money for myself. I wanted the other I had saved, made a dollar, some turkeys but my mother was rais- and if every dollar came as hard as ing them and she said she would rather this one I would hate to be a million-I would raise ducks. So I bought one aire. Then how happy I was, for in a dozen and a half duck eggs with mon- few days father went to town and ey borrowed from my brother, who bought me a watch for my dollar.—R. was interested.

Out of the eggs I hatched fourteen fourteen years. ducks, but two of them were trampled to death in the nest.

I put the ducklings in a box with an old hen for a mother, and beginning with the second day I fed them every two or three hours. The second day I gave them nothing but water or milk and then on the third day I gave them a little bread soaked in milk.

On the morning of the fourth day one of my ducks was dead and a couple of the others did not look very well.

I wrote to the Michigan Farmer at once to find out the trouble and they told me that my feed must have become sour.

After this I fed them very carefully and was rewarded by the rest of them. living.

Aiter two or three weeks I began week's time I was giving them pure bran and a little grain.

They grew very rapidly but one Helen Florence Bullock, Menight I lost two of them by a weasel igan. Eleven years of age. breaking into the pen. This left me ten ducks which I sold in the fall.

After paying my brother back I found I had about eight dollars left. I was greatly pleased with my success and decided to try again next year. -Anna McCully, Pittsford, Mich. Age fourteen years.

HONORABLE MENTION.

How I Made My First Dollar.

A few years ago when prices were lower than at present, I decided that I would buy a dollar watch, but I did not have the money so I set out to earn it.

The first thing I did was to kill ten dozen house flies, for which mother gave me one cent per dozen, which amounted to ten cents.

My father had a patch of tomatoes where the tomato worms were very thick. He asked me if I wanted to earn some money which I readily consented to do. I worked away for nearly two days picking those nasty green worms for five cents per dozen. When I was through I received fifty cents,. which I was more than pleased to get.

In a few days I weeded the garden which was a very long and tiresome task, although I stayed by it until I had it done, when I received fifteen cents to add to my fund.

Later in the season our neighbor wanted me to pick cucumbers for him.

I went and helped him, which was a very tiresome and back-breaking task and I was glad when I was through AST summer I decided that I want- and could go home. He gave me twended to raise some poultry and earn ty-five cents for my work, which with D. Layman, Berrien Center, Mich. Age

HONORABLE MENTION.

How I Earned My First Dollar.

When I was a little girl, about seven years old, my mother promised me that if I would gather the eggs every evening for her, she would give me one egg out of every dozen. I agreed to do this and every night after I came home from school, I would go all around to hunt the nests, which I found in the barn, wagon shed, cow stable, under lumber piles, and in the pig pen. From these nests I gathered from eighteen to twenty four eggs each day. So I averaged about one dozen eggs of my own each week. These sold for thirty cents a dozen, and at the end of four weeks I had earned one dollar and twenty cents.

This was not hard work, but a great giving them a little bran and decreased help to mother, and helped me to earn the amount of bread and milk. In a my own pin money, which I saved to buy War Savings Stamps to help Uncle Sam through this great world war .-Helen Florence Bullock, Mesick, Mich-

Our Prize Contest

TO the boy or girl writing the best letter, of less than 250 words on each of the following subjects, the Michigan Farmer will give a cash prize of \$1.00.

Subject of letter to be mailed by May 12:

"The worst bargain I ever made."

Subject of letter to be mailed by May 19:

"The best teacher I ever had." Subject of letter to be mailed by May 26:

"Why I joined our Boys' or Girls' Club."

Subject of letter to be mailed by June 2:

'Why I think 'Dad' is the best man on earth."

We desire to make this contest a permanent feature of our Boys' and Girls' Department. A new subject will be added each week.

Write neatly with ink on one side of the sheet only. Give your age, full name and address.

Address your letters to The Boys' and Girls' Dept., Michigan Farmer, Detroit, Mich.



Yes, it feels fine, too. And since it's a Cloth-craft, it's guaranteed to wear well."

CLOTHCRAFT CLOTHES

FOR MEN AND YOUNG MEN

-one reason a dollar goes further in this store is that we've taken every measure to safeguard its value.

For not only do you get the manufacturer's guarantee with each Clothcraft suit - guaranteeing satisfactory wear and service - but you get our own guarantee of perfect fit and good looks.

What better assurance of good value could any man have who is seeking to make his clothing-money go farthest?



na the new Clotheraft Clot k. A copy will be mai. free-write The Joseph v Co., 646 St. Clair Avenu v., Cleveland, Ohio.



Porous or Vitrified High Quality Tile

Orders booked for immediate or future delivery. Buy now and take advantage of present low prices. Prices and underdrainage booklet upon request.

THE CADILLAC CLAY COMPANY
Manufacturers and Distributors
Building Material

Penobscot Building Detroit, Michigan

Michigan-Grown Seed Pride of the North

A Michigan-grown seed sure to produce a bumper crop. The Pride of the North has an early, medium sized ear, certain to mature. Prices; shelled, graded, tested and guaranteed 95 or better; I ib. 25, postpaid, 15 lbs. \$1.25 postpaid, 15 lbs. \$1.25

Victory Ensilage Corn

A heavy leaf variety, wonderful for silo filling. Often matures ears in normal seasons—hundreds of farmers have used this seed in previous years. Prices; 36 bu. \$2, 1 bu. \$3, 2 bu. \$5.75, 4 bu. \$11, bagged F. O. B.

Seedsman,

Box 23 Lansing, Mich.

30 Days Free Trial: TIRES LAMPS, HORNS, ped-als, single wheels and repair parts for all makes of bicycles at helf mail prices. No one eles can Rider Agents Wanted

Unusual Opportunities for Veterinary Surgeons MICHIGAN AGRICULTURAL COLLEGE

offers complete veterinary course, open to high school graduates in preperation for this work.

For particulars write

R. P. LYMAN, Dean, East Lansing, Michigan,

When writing to advertisers please mention The Michigan Farmer.



N these days of chaos and self-seek-

so far as they are able without regard

to the other fellow's opinion. Presi-

way and is doing his best to convert

noticeable success. The North Dakota

farmer has made a strong attempt to get things as he wants them, while

Mr. Herbert Quick, of the Federal

Farm Loan Board seems to think Am-

agree with the eastern college presi-

of our own institutions and too sure of

the American people when it comes to

Woman's Interests

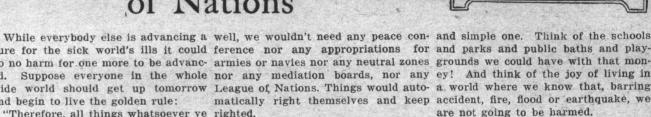
A Substitute for the League of Nations

cure, and are proceeding to apply it in and begin to live the golden rule: "Therefore, all things whatsoever ye righted.

would that men should do to you, do dent Wilson thinks he has the right ye even so to them."

ing, probably everyone who thinks cure for the sick world's ills it could ference nor any appropriations for and parks and public baths and playhas a panacea for existing ills, i. e., do no harm for one more to be advanc- armies or navies nor any neutral zones grounds we could have with that montheir own individual ills. The Bol- ed. Suppose everyone in the whole nor any mediation boards, nor any ey! And think of the joy of living in sheviki certainly think they have the wide world should get up tomorrow League of Nations. Things would auto- a world where we know that, barring matically right themselves and keep accident, fire, flood or earthquake, we

Can't you just see inflated prices getting back to where they really belong, der those conditions? It probably would Could anything be simpler? And and wages coming up to what they other leaders to his views, though up can't you just picture what a glad should be and profiteering become one would be taken out of it. The other



Can you imagine a horse trade unbecome a lost art, for all the spice to the time of writing, without much world this sad world would become if of the seven deadly sins, with child fellow would tell you the exact truth about his nag, and you'd have to do the same, so you would probably both keep what you had. Buying would become a simple process of getting a fair price and taking it or leaving it. erica will be saved by a back-to-theland movement, and "passes the buck"

She kept her dwelling as spic and And her form grew stooped and her could go out and buy a piece of silk

eyesight dim.

eyesight dim.

and know it was really silk, not cotton

to the farm women, who, he says,

And prided herself she had done her

way linen tablecloth you'd know it would be linen, not mercerized cotton gotten up to fool the unwary.

People would be courteous, too. It would be a smiling world all over, instead of in spots where one or two happened to be sunshine makers. Glooms would depart because injustice would be no more.

It's a fine picture, though far from true to life. But it isn't too much to hope for and to look forward to and to help along by doing the thing ourselves. We'd all be willing to try it if things just as they are now, and all of everyone should put that very simple labor, unsanitary housing, sabotage we were not afraid the other fellow wouldn't. Let's drop that modern praying, that things may get back to should live the golden rule, instead of Prisons would be emptied and legisla- idea, "Do the other fellow and do him normal and we may once more be able making our children commit it to mem- tors would lose their jobs, because first." So long as we cling to it the

Two Women

up to the farm women, who, he says, And prided herself she had done her are responsible for the present city-

Things are pretty well mussed up,

And never a hole by chance was seen And her husband found her, compan-

done, and certain journals will tell us it has got to be done almost overnight or the Bolsheviki will get us. Few real Americans admit that, we are too fond

way Would leave her dishes to talk or play. Though she never sat in the shade to Her babies' rompers were plain and cheap

we all admit, though not all of us will Her children's clothing was always But she held them close when they

dent who says the world came to an She thought she surely was doing right end in 1914. Something has got to be Though she never sang them lovedone, and certain journals will tell us songs at night.

Songs at night.

Which of the women do I admire? songs at night.

Her husband's wish was her law and Which of the women do I admire?

creed,

She ne'er neglected his slightest need.
Though she felt too weary to talk with
him

Which in the women do I admire!
Which in your home would you desire?

Martha, the toiler, was not denied
But Mary sat at the Savior's side.

L. M. Thornton.

a real show-down. But none of us like us are wishing, and a great many of us rule into actual working order? If we and half-done work for its fellows.

to give a good and sufficient reason for ory-all the time wondering why they they would not need to make laws if world will continue a place of chaos have to learn it when we never do it- everyone should obey just one very old and unrest. the hope that is in us.

Preserving Eggs with Water Glass

URING the spring months many housekeepers serve eggs because they are cheap, until their families are tired of an egg cooked in any form. Later, when eggs soar to fifty cents a dozen, few are found on the table of the average family.

When the hens are laying freely and eggs are abundant and cheap the thrifty housewife makes provision for the future by preserving some for the winter months.

Fresh clean eggs properly preserved can be used satisfactorily for all purposes in cooking and for the table. When eggs preserved in waterglass are to be boiled, a small hole should be made in the shell with a pin at the large end before placing them in the water. This is done to allow the air in the egg to escape, when heated, and it prevents cracking.

good results. Eggs laid during April, vents spoiling. to keep better than those laid later in of eggs is the use of sodium silicate, should be scalded and allowed to dry. be repeated. The hope of the nations the season. If satisfactory results are or waterglass. If the price of sodium Second, heat a quantity of water to lies in the direction of peace for all

solution are not fresh and therefore solution a second time. should badly soiled eggs be used for be sufficient to preserve fifteen dozen Fifth, place the crock containing the food and in dress, with thrift stamps



be kept from eight to twelve months dirty they will spoil, and washing re- quantity needed to preserve larger sent itself for getting a start in the condition and used with moves a protective coating which pre- amounts of eggs

to be obtained, the eggs should be silicate is about thirty cents a quart, the boiling point and allow it to cool. future years to come. So prone are fresh and clean and, if possible, in eggs may be preserved at a cost of Third, when cool, measure out nine we all to follow along the beaten path approximately two cents a dozen. It quarts of water, place it in the crock of habit that it requires something Eggs that float when placed in the is not desirable to use the waterglass and add one quart of sodium silicate, very much out of the ordinary to

only slightly soiled, a cloth dampened nine quarts of water that has been in the solution. Be careful to allow at So with the self-denial made neceswith vinegar can be used to remove boiled and cooled. Place the mixture least two inches of the solution to cov- sary by the war, with everything possuch stains. Under no circumstances in a five-gallon crock or jar. This will er the eggs.

May and early June have been found A good method for the preservation clean it out thoroughly, after which it ences in battletorn Europe will never

cannot be preserved. When an egg is Use one quart of sodium silicate to Fourth, the eggs should be placed ferent direction.

preserved eggs in a cool, dry place, well covered to prevent evaporation. Waxed paper covered over and tied around the top of the crock will answer this purpose.

WILL THE LESSON STICK?

BY ELLA E. ROCKWOOD.

7 E have recently passed through a trying time, which brought new experiences and which taught us many things in the way of economy and thrift. Now that the war has been won many people seem to think there is no longer any necessity for self-denial and are speedily falling back into old habits of extravagance. In such cases the lesson has surely been in vain so far as the individual is concerned.

Quickly, indeed, do we forget. Never Fresh eggs properly preserved may preserving; if put into the jar while eggs, and will serve as a guide for the again will a similar opportunity preright direction. At least it is hoped First select a five-gallon crock and and expected that the terrible experistirring the mixture thoroughly. arouse us to make an effort in a dif-

sible done to encourage economy in

and bonds to the limit of our ability News of the Week! gave us a splendid start on the right road. Shall we allow ourselves to profit nothing by the lesson and drift back into our old habits of extravarather, with our newly acquired mental equipment for service, determine from now on to devote less thought to self and more to the great Brotherhood of Man? Shall we not be broader-minded, more sympathetic and charitable, less ready to criticise and find fault, more generous with time and means toward date. the unfortunate of all lands, and less inclined to limit our efforts to those with whom we are more intimately as-

"Lord of God of Hosts, be with us yet, Lest we forget—lest we forget!"

RENEWING SHABBY FURNITURE AND FLOORS.

Shabby floors can also be made spic and span with paints or wood finishes.

To renovate old furniture, first clean the surface thoroughly, removing all grease and dirt. Use soap and water. If the varnished surface is merely and apply one or two coats of furniture or interior varnish. If, however, it is desired to change the color of the furniture to a darker shade, apply one coat of varnish stain and when dry finiture to a darker shade, apply one coat of varnish stain and when dry finiture to a darker shade, apply one coat of varnish stain and French to the south.—It is reported that sixty American soldiers were beheaded by the Bolsheviki following the capture of Shenkurst in northern Russia.—Citizens of Porto Ricc are preparing to oppose the Tinoco government with arms.—Sixteen men were lost when an American navalture to charge from a facility to the south.—It is reported that sixty American soldiers were beheaded by the Bolsheviki following the capture of Shenkurst in northern Russia.—Citizens of Porto Ricc are preparing to oppose the Tinoco are prepared to the tinoco are prepar scratched or marred, sandpaper lightly desired to change from a dark to light color, apply one coat of ground coat

plying finishing materials.

VALUABLE BULLETINS.

for the following bulletins:

teins."

College for the food bulletins, ask also an advance of \$3,125 for every returnfor their sewing bulletins which you ed soldier who settles on land. will find helpful.

Wednesday, April 30.

GERMAN peace delegation arrives at Versailles.—Premier Orlando of Italy declares in his address to the gance and selfishness? Shall we not Italian Chamber of Deputies that Italy Italian Chamber of Deputies that Italy must have Fiume.—An address of homage to the former kaiser Wilhelm of Germany bears the signatures of 500,000 friends in the Fatherland.—The military position of the Bolsheviks in northern and eastern Russia appears to be rapidly crumbling.—Aerial express service between New York and Chicago will be inaugurated at an early date.

Thursday, May 1.

HE first meeting of allied and German peace representatives is held at Versailles.—Chinese parliament protests to the five world powers against granting Kiao Chow to Japan.—Government troops recapture Munich in Bavaria.—Italy receives a new loan of \$50,000,000 from Washington.—The Rumanian forces continue their advance against the Soviet troops of Hungary. against the Soviet troops of Hungary.

One of the most violent earthquakes A GOOD deal of new furniture is bought merely because the old pieces have become shabby. Oftentimes a little of the right kind of finishing material would restore the old furniture at a very small expenditure.

Chabbu flows can also be made spice.

—One of the most violent earthquakes in San Salvador results in a large number of persons being injured.—Secretary of the Navy Daniels points out need for a large naval international police force.—Many strikes are reported in various cities throughout the world.—A fire on Coney Island destroys property valued at \$1,000,000.

Friday, May 2.

TROTZKY'S Russian government appears to be near an end with the advance of the Finns on the west, the advance of the rims on the west, the allies from the north and Kolchak's troops from the east, together with successful operations by the Rumanians and French to the south.—It is real tug strikes a rock and sinks off the coast of France.

Saturday, May 3.

color, apply one coat of ground coat and finish with two coats of varnish stain of the desired color.

For floors which have not previously been finished, a paste wood filler should first be applied. Then finish with two coats of good floor varnish or floor wax.

To refinish old floors, first clean them thoroughly. Then sandpaper smooth. Finish with two coats of floor paint or floor wax. If a colored effect is desired, apply one coat of varnish stain of the desired shade and finish with one coat of floor varnish. If cracks between the boards are in evidence, these should be filled with special crack and crevice filler before applying finishing materials.

Saturday, May 3.

THE Russian Soviet government sends an ultimatum demanding that Rumanian troops evacuate Bessarabia, a former Russian province populated largely by Rumanians.—It is reported that Italy is disposed to reenter her delegates in the peace conference.—The Treasury Department reports payments of \$30,500,000,000,000 since America entered the war, of which amount \$10,000,000,000 consists of loans to the allies.—President Wilson plans on returning to this country by June 1.—Spanish parliament is dissolved by King Alfonso.—Germany is planning on making heavy purchases of meats, cereals and other food stuffs in Argentina.—Monthly service between New Orleans and the west coast of South America will start in June.

Sunday.

Sunday, May 4. ERMANY notifies Chili of the accondition, the only resort is to paint them. First fill cracks with special crack and crevice filler and apply one or two coats of floor paint. A coat of good floor varnish over the paint will steamship line in Hoboken are pursued to condition, the only resort is to paint them. First fill cracks with special shares of German saltpetre companies in Chile.—A report from Paris intimates that a special session of congress will be called by June 1.—Three piers of the Hamburg-American steamship line in Hoboken are pursued to the condition, the only resort is to paint them. good floor varnish over the paint will add to the appearance and durability.

Bear in mind that quality goods are essential to best results. Not only that, but they will give you the lasting satisfaction that means true economy.

VALUABLE BULLETINS.

Three piers of the Hamburg-American steamship line in Hoboken are purchased by the government for \$2,500.

One.—The War Department announces that 1,942,391 men have been discharged from the army since the armistice was signed.—It is now believed that Italy will be back in the peace congress in time to sign peace with Germany.

Monday, May 5.

many.

If you are looking for advice as to how to feed the family wisely, write the conditions offered Belgium in the To the Michigan Agricultural Coltroops force Russian reds to evacuate lege, East Lansing, Mich.: "Feed Your Body Wisely," and "Rules for Planning the Family Dietary."

Write the Department of Agriculture, Washington, D. C., for the following: "What the Body Needs," "Cereal Foods," and "Foods Rich in Proteins."

To the Michigan Agriculturops force Russian reds to evacuate Orenburg and considerable contiguous territory in southeastern Russia.—Munich falls to German government troops and the collapse of the Soviet organization in Bavaria is seen.—Bread prices in Chicago advance twenty per cent.—The war is still costing the United States \$14,000,000 daily,—The first aerial postal service in the south is inaugurated between Mont-When you write the Agricultural gomery Alabama, and Macon, Georgia.

Tuesday, May 6.

Household Editor:—Some time ago in the Michigan Farmer an article named an acid which would remove the screen rust from window glass. I have mislaid the article and wish to know if it would be possible for you to inform me what to use?—Mrs. L. M. G.

Hydrochloric acid.

The Adriatic question apparently with the Italian government.—Confirmation of the unconditional surrender of the Hungarian government is received in a dispatch from Vienna.—Delay in the submission of the peace terms to the German delegates results in the German assembly threatening to recall her representatives.

Postum First Found Favor In the Small Communities

then in the cities, then in the nation's great metropolitan centers, until today it is demanded everywhere, and sold everywhere, as America's greatest health drink for table use. You can get from your grocer

The Original POSTUM CEREAL

Boil it just like coffee-15 minutes after boiling begins.

It doubles the enjoyment of the meal with its rich, invigorating flavor; and, unlike coffee, it never upsets nerves, stomach or heart. Children as well as grown folks can drink Postum freely.

"There's a Reason"

Two Sizes, usually sold at 15c and 25c.



Not So Bad this Month

"Now, that's better! It's the first time the expense figures haven't given me a horrid feeling.

"Why didn't I know sooner about Jell-O and some of the other money-savers?

It doesn't matter whether you live in the city or country, whether you keep an account book or not,

will help you out, for it is cheap as to cost and it can be made up into more different kinds of good things to eat than anything else.

Every woman who wants to know how Jell-O can help her out will find the information she desires in the Jell-O Book, which will be sent free to all who send name and address.

Jell-O is made in six pure fruit flavors: Strawberry, Raspberry, Lemon, Orange, Chocolate, Cherry, and is sold two packages for 25 cents by all grocers and dealers.

THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y., and Bridgeburg, Ont.

SALTED FISH

Low Prices. Low Freight Rates

 Net weights
 100 lb.
 50 lb.
 20 lb.
 10 lb.

 Lake Herring
 \$6.00
 3.80
 1.65
 .96

 Round Shore Herring 6.25
 3.93
 1.70
 1.00

 Split Ocean Herring
 6.50
 4.05
 1.75
 1.03

 Alaska Herring
 10.00
 5.80
 2.45
 1.38

 Whiting (Sea Pike)
 6,00
 3.80
 1.65
 .96

WISCONSIN FISHING CO. Dept. Y. Green Bay, Wis.

WALL PAPER

1,000,000 ROLLS Per { Write for sample cata-log of 50 new designs and colorings. SAMPLE BOOK MAILED FREE Martin Rosenberger, LINCINNATIONIO

Mention The Michigan Farmer When Writing Advertisers

DR. HESS Instant Louse Killer

Kills Lice on Poultry and Stock

Use it on your lousy hens and chicks—your lousy colts, horses and cattle. You'll get better chicks—bigger, better fowls—more eggs—better contented stock.

Chicks are apt to be lousy now. Give them a chance. Sprinkle Louse Killer into the feathers, about the coops, on roosts, in nests of lay-ing and setting hens. Always keep Louse Killer in the dust bath. For lousy horses and cattle, colts and calves, stroke the hair the wrong way and sift in Louse Killer.

We authorize dealers to return your money if it does not do as claimed.

1 1b. 30c, 21/2 1bs. 60c (except in Canada)





Ring Necked Pheasants

Lay 40 to 50 eggs each per year. Why raise chickens to eat when these are much more profitable and raised as easily? Weigh 3 pound at six months, and bring \$1.00 a pound in the market. Set the eggs under chickens—feed and care for the young the way you would chickens. Are economical as they only require one-half as much food. Are very hardy and not subject to disease. Best eating bird in America. Eggs guaranteed from vigorous, healthy unrelated stock.

\$6.00 for 15 eggs
35.00 for 100 eggs

Genuine Wild Mallard Ducks

Lay 50 to 60 eggs per year. We guarantee our breeding stock to be the best in the country as they are entirely wild trapped Mallards and not the coarse semi-wild strain.

\$ 5.00 for 15 eggs
25.00 for 100 eggs

Giant Bronze Turkeys
Have a wonderful flock, headed by prizewinning 55 lb. tom.
\$1.50 per egg

Bloomfield! S. C. Rhode Island



POULTRY

CHICKS CHICKS CHICKS

350,000 FOR 1919

By Parcel Post Prepaid. Delivered To Your Door. Guarantee Live Delivery.



Strong chicks from pure bred farm stock that are hatched right. Have chicks of Utility and Exhibition quality. Bred to Lay. S.C. white and Brown Leghorns \$16.00 and \$14.00 a 100; Barred Rocks, \$15.00 and \$16.00 a 100; Rose and Single Comb Reds, \$18 and \$15.00 a 100; White Wyandottes, \$20.00 a 100; S. C. Anconas, \$18.00 and \$15.00 a 100; S. C. Buff on \$25.00 a 100; S. C.

Black Minorcas, \$20.00 a 100: S. C.
Black Minorcas, \$20.00 a 100: Odds and Ends, \$14.00 a 100.

Segs for hatching, \$8.00 to Eggs for Hatching, \$1.00 to Eggs for Hatching,

HUBER'S RELIABLE HATCHERY EAST HIGH ST., FOSTORIA, OHIO.

CHICKS 100,000 This Season.
10 varieties, best pure blood stock hatched right and guaranteed to reach you in right condition, hatching eggs prepaid. Pekin duck eggs, Illustrated catalog free.



STANDARD POULTRY CO., R.7, Nappanee, Ind.



The Farm Flock in May

weather is good enough to stimu- not grow like the early spring birds. late interest in poultry. There are too A hatch from a small-sized incubator many eggs from pure-bred flocks being can often be given to broody hens. marketed that might find a ready sale This takes up the time of the hens and as hatching eggs at a higher price, reduces egg production, but it may Strong parcel post egg carriers can be save a little time and worry for the purchased at a moderate price and it poultryman who does not wish to mantakes little time to pack and mail such age a brooder for less than a hundred a box. Of course, only the best eggs chicks. Give the hens a few china eggs should be sold for hatching. During for several days before the incubator May when egg prices fall the farmer hatch comes off and then place chicks should not neglect the opportunity of under the hens at night. Have a few selling hatching eggs as this helps to extra setting hens ready as a surplus bring up the average income per year if any of them act ugly and refuse to of each hen in the flock.

Guernsey cattle are largely bred and thinks she hatched them out during the farmers living in such sections re- the night. If chicks are given to hens ceive more profit from their stock be- during the day, the brood coop should cause of that fact. The other breeds, be darkened. such as the Brown Swiss, Ayrshire, stock.

Order Eggs Early.

less the breeder has a very large flock are overcrowded. or a large number of special matings the desired time.

Chicks Need Green Food.

Plan on an abundance of green food for the chicks during the growing season. This crop they harvest for themselves and gather many bugs, worms manure from the flock in the ground ed little nourishment. and the oats will furnish many healthful meals to the growing chicks.

birds gather early in the season. Of condition. Wheat bran is somewhat the wind and rain early in the season its superior advantages much outbalbut the birds that live through the bad ance the difference in cost. Baby Chicks S. C. White and Brown Leghorns and Barred P. Bocks, by parcel post or express, safe delivery guaranteed. Knoll's Hatchery, R.3, Holland, Mich fowls but if the summer is dry and hot, been established. For every one hun-

T this time many farmers have the birds do not get as tender green A plenty of setting hens and the food or as many worms and they do

mother the chicks. The next morning The poultry business should be place examine the hens early and if they ed on a higher plane by cooperation are clucking and talking to the chicks and more communities specializing in and the chicks are peeping in a conone breed. Among dairymen we have tented manner they have been successcertain centers where the Holstein or fully adopted and undoubtedly the hen

It is important to leave the chicks Dutch Belts, etc., all have their friends and the hens in the darkened brood but the herds are more scattered, coop until they have become thorough-Among poultrymen this community ly acquainted with each other. It is idea should spread. In some sections necessary for the chicks to accept their there are now many fine flocks of Leg- foster mother as well as for the hen horns or Rhode Island Reds located to take the chicks. Otherwise the within the radius of a few miles. Other chicks may leave for another hen and breeds, such as the Plymouth Rocks it is no uncommon experience to have and Wyandottes, are worthy of a lot of chicks leave two or three of the hens community specialization. When one and congregate under one hen, giving section is noted for birds of one breed the popular hen a brood of forty or many buyers will learn that fact and fifty chicks. Then the hen tries hard know the part of the country they to cover them but if the night is cold should visit when purchasing breeding some of the young birds will become chilled and trampled and killed. It frequently pays to examine the hens at When ordering eggs for hatching it night and note if some of the brood pays to place the order early, for un- coops are nearly empty while others

Little chicks know more ways of he will not be able to sell a large num- committing suicide than any other ber of eggs at any one time and the farm animal. Leave a pail of water in rule of "first come, first served" must the yard and a couple of them will try be followed. There is a time in late to drink from it and fall in and drown. April and early May when the poultry Never dump any spoiled feed, spray "fever" attacks many who have former- dope or any material that will injure ly been immune and then there is a chicks, where they can find it. Do not rush to obtain hatching eggs and much provide any shelters for chicks that disappointment when the orders are cannot stand plenty of wind and rain. not filled promptly. By placing the or. If they seek protection from the sun der early in the season this delay is under some shaky canvas and board avoided and the breeder is able to structure, they will go there in a hard gauge his business and fill orders at rain. Then it blows over and some of the chicks are drowned. R. G. K.

TRANSIT LITTER FOR CHICKS.

S OME litter is required in the boxes carrying baby chicks by mail or and weed seeds at the same time A express. Fine cut clover has been exclover pasture furnishes fine green tensively used by commercial hatcherfood for growing chicks. If the yards ies, but a better practice has now been are fenced and bare, it will pay to plow originated. The clover litter was them up and plant oats. The plowing nearly always dusty, and such as the turns up fresh clean soil and places the chicks consumed, while bulky, furnish-

The new litter is wheat bran. It is fine and soft and contains very little One of the main reasons for early dust. If the journey is lengthy, the hatching is the abundance of tender chicks are sure to consume some, with green food and large worms that the the result that they arrive in better course, they need much protection from more expensive than cut clover, but

weather have reached a size when good Successful delivery of baby chicks days come so that they can forage for depends on attention to many little dethemselves and grow rapidly. Many tails. Based on the experience of big

Double the Weight

X From the Same Feed Double the So great has been he dedouble the mand for these practical,

ready-to-use caponizing tools that most dealers exhausted their stocks. The fact that the Pilling factory was working 100% on Governmen orders for surgical instruments prevented us from refilling their shelves.

But next Spring we shall be able to supply dealers who order early. Get your order in now---any poultryman with Pilling caponizing tools and our complete illustrated instructions can make each dollar's worth of feed produce four times as many dollars as with roosters. Capon Book FREE.

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Barred Rocks White Rocks Buff Rocks

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Baby chicks from Bred-to-Lay S. O. White Leg-horns \$12 per 100. Thompson Strain Barred Plymouth Rocks \$18 per 100. Safe delivery guaranteed, Send for chick folder and order early. Russell Poultry Ranch, Petersburg, Mich.

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Barred Rocks. Selected eggs from vigorous purebred stock of good laying ability. \$2 per 16;\$5 per 50; \$10 per 100. Prepaid by parcel posts. R. G. KIRBY, R. I. East Lansing, Mich.

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BARRED Rocks exclusively. Get your baby chicks and hatching eggs on time by ordering now. Prices and folder free. H. H. PIERCE. Jerome, Mich.

BARRED Ply. Rock eggs for hatching \$2.00 per 13.de-livered by post from heavy laying prizewinning strain. J. A. BARNUM, Union City, Mich.

Baby Chicks Hatching eggs, seven leading varieties best quality. Lowest prices, Catalogue free. Goshen Poultry Farms, H. 19, Goshen, Ind Baby Chicks: S.C. White and Brown Leghorns. Good laying strains of large white

eggs. Guaranteed to reach you in first class condition by parcel. Catalogue with price list free. WOLVERINE HATCHERY, R. 2, Zeeland, Mich. BABY Chicks and Eggs. Barron English White Leghorns, "The Big Kind." 248 to 303. Egg stock. Write Mrs. E. L. GARLOCK, R.7, Howell, Mich.

Buff Leghorns, and White Leghorns, great laying strains, satisfaction guaranteed. Dr. WILLIAM SMITH, Petersburg, Mich.

Chicks Barron Strain White Leghorns. Paya little more and get a good start next season. Early hatched chicks are always the best. My cockerels come from hens with an egg rocord of over 250 eggs their pullet year. March 35, April 35, May 514 per 100. Circular free. Folly Gove Farms, R. 1, Holland, Mich.

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CHICKS AND EGGS Rose and Single Comb R. I. Reds. Barred Plymouth Rocks. Pure bred stock. Farm raised and of super-ior quality. Write for catalog. INTERLAKES FARM, Box 39, Lawrence, Mich.

Barred Rock eggs. \$1.50 for 15. 62 hens laid 8667 egg last year. Flock average, 140 eggs. Parks strain Winter layers. LEWIS B. AVERY, Saline, Mich

CHIX:- S. C. W. Leghorns \$18 per 100. Full count live chix guaranteed. Pullets of same blood averaged 70 % yield through December and January. Morse White Leghorn Farm, Belding, Mich.

Chicks, We ship thousands, orders booked now for spring delivery, booklet.
FREEPORT HATCHERY, Box 12, Freeport, Mich.

Blue CUSTOM HATCHING Hens

The Citizens Mutual **Automobile Insurance** Company

HOWELL, MICHIGAN

Makes the Following Statement for the First Four Months of 1919

Paid 31 claims for fire......\$6,249.65 Paid 56 claims for theft 10,270.50 Paid 121 claims for liability .. 14,269.92 Paid 76 claims for collision. 7,698.97

Total 284 claims\$38,489.04

5,209 new policies written the first four months of the year.

The Company has on hand May 1st a surplus of \$72,833.88.

FOR SICK CHICKENS

Preventative and curative of colds, roun, canker, swelled head, sore head, chicken pox, limber neck, sour crop, cholers, bowel trouble, etc. Mire. I. A. Mor'of Galien, Mich., says: "Have used Germoone If ye rice chickens and could not get along without it." Geo. It leaves the says: "Have used Germoone If years; the best for bowel troubles I ever found." Frank Suka, Chicago, III., writes: "I have lost but 1 pige on a dno chickens in the 3 yrs. If have been using Germoone and no chickens in the 3 yrs. If never had a sick chick at "Great my puniest chick this spring." Ralph Warst. Eric, Pa. says: "Not a case of white diarrhoen in 3 yrs. Eric, Pa. says: "Not a case of white diarrhoen in 3 yrs. Eric, Pa. says: "Not a case of white diarrhoes in 5 yrs. Briae over a thousand a year." Good sine for rabbits, birds, pet stock.

GERMOZONE is sold generally at drug and seed stores. Don't risk a substitute. We mail from Omaha postpaid in new 25c, 75c and \$1.50 sizes. Foultry books free.

OMAHA, NEB. GEO. H. LEE CO., Dept. 480

POULTRY

HOMESTEAD FARMS

Day Old Chicks sold out—except S. C. White and Brown Leghorns and few Black Minorcas. Eggs for hatching nearly all standard breeds.

Belgian Hares.
Send for new illustrated catalog.

BLOOMINGDALE FARMS ASSOCIATION,

Laybilt S.C.W. Leghorn

Large, great layers, pure whites, strong day-old chicks
March 25c each; April 15c each. Parcel postpaid,
Lots of 25c occuparanteed delivery alive and lively
Hatch every week after March 17th. No circular,
Hatch every week after March 17th. No circular,
Please book order direct from adv-and send orders early
V. A. MORSE, Jonia, Mich.

EGGS From Brown also White China Geese at 30c each. Pekin and Colard Muscovy Ducks. Light Brahma, Silver Wyandotte, Black Lanshang, Buff and Black Orphingtons, Spanish Andalusians, Anconas, Single and Rose-Comb White and Silver Leghbas, Single Comb White Minorca, S. S. Hambus Dark Cornish, Single and Rose Comb Red, Buff, Barred, White and Silver Rock eggs. \$1.75 prepaid; also Pearl Guinea eggs \$1.25, deap real Guinea eggs \$1.25, deap real Guinea eggs \$1.25.

English Barron S. C. White Leghorn chicks at \$14.00 per 100; \$85 per 500 immediate special delivery. 6,000 chicks each week. Guarantee safe delivery full count of lively sturdy quality chicks that will mature into most profitable and persisent layers. Hatching eggs \$6 per 100. Write us your wants and send for valuable catalogue gives rearing & feeding methods. DEVRIES LEGHORN FARM. Zeeland, Mich.

Chix 15c up 75,000 selected utility, exhibition, trap-nested chicks, always 3000 on hand. Some 10 days old, several varieties. Hatching eggs. Catalogue Beckman Hatchery, 25 E. Lyon, Grand Rapids, Mich.

Fenton Chicken Hatchery, Fenton, Mich. F.M. Milliken, Proprietor. Thoroughbred Day Old Chicks, 25 for \$5.50; 96 for \$10.00; 100 for \$18.00; Single Comb W. Leghorns Tom Barron English Strain, White, Buff and Barred Plymouth Rocks, Buff Orpingtons, Anconas, W. Wyandottes, R. I. Reds, B. Leghorns.

BABY CHICKS--Prices Reduced Send for cular, Bred-to-lay S. O.W. Leghorns. Our stock produced the winners in the state demonstration farm work last year. Sunnybrook Farm, Hillsdale, Mich.

CHICKS S. C.W. Leghorns, Tom Barron strain months. Edgewood Poultry Farm, Brighton, Mich.

Fowler's Buff Rocks Cockerels \$4 up. Utility eggs for hatching \$2.00 for 15.
R. B. FOWLER, Hartford, Mich. For sale "Buy the Best" eggs for hatching from 200 egg strain Barred Plymouth Rock \$2.00 per 15, \$5.00 for 45 eggs. H. B. PROCTOR, Grand Haven, Mich.

Hatching eggs Plymouth Rocks, all varieties and Anconas. Illustrated catalog 3c. Sheridan Poultry Yards, R. 4, Sheridan Mich.

John's Big Beautiful Barred Rocks are hen hatched, Jouick growers, good layers 20 eggs \$3, 100 \$8. Postage paid. Circulars, photos. John Northon, Clare, Mich.

dred chicks shipped, three hundred square inches of floor space should be allowed, and no single compartment should contain more than twenty-five chicks. Depth of box should be over four inches, preferably five to six. The boxes nearly, but not quite, square, appear to carry best. Very narrow and very long containers are being discarded, as they increase in-transit hard-

Ventilation is a most important matter. Most large chick shippers use boxes with different size holes, and when shipping select a size adapted to the season, the weather and the journey. In warm weather larger holes are required than in early spring. More chicks die from too little air than from too much. It is now a popular practice to band boxes at each end with narrow cleats. These prevent colse packing and suffocation while in transit.

Baskets and boxes with cloth tops are sometimes used for containers. These are only safe in the very warm weather and -hen the journey is short. Admission of day-old chicks to postal privileges is a tremendous boon to this growing industry. Poor express service, under war-time handicaps, was proving a disastrous thing to producers.

MILK COMMISSION MARKS NEW EPOCH.

I T gives to the world a new vision of what real constructive endeavor, for which the Michigan Milk Producers' Association has from the first contended, can do to stabilize this vital industry; not for the good of the farmer only, but for all humanity, who must depend for the fullest mental, moral and physical development upon this product for which there is no substi-

To the Detroit Milk Commission, composed of conscientious, broadminded, public spirited citizens, who have given their best thought and time without compensation, and whose sole desire has been to so adjust these delicate matters that justice should be meted out to all, to producer, distributor, and consumer alike find themselves deeply obligated.

The farmer gets cost of production, plus ten per cent. The farmer gets back what was deducted from January, February and March milk price to help the distributor through that expensive and critical period to his business. And for the first time in the history of the milk supply of any great city has the producer and the distributor been assured a fair profit, and the consumer given the cheapest food product on the market. If we but continue steady to our purpose in our constructive campaign, the highest ideals of cooperation can be attained.

Price for May, \$3.25; June, \$3.10; July, \$3.40 per cwt.

All of 35-10 per cent milk, Detroit delivery.

We will be glad to furnish copies of the commission's findings if desired.

Address all communications to R. C. Reed, Howell, Mich., secretary and selling agent, Michigan Milk Producers' Association.

TESTIMONIAL TO F. R. FENTON,

A T a meeting in the state senate chamber at Lansing, Mich., attended by the men and women chairmen, and district organizers of the Michigan War Loan Organization, Frederick R. Fenton, director of sales for the state, a resident of Chicago, was presented with a set of resolutions commending his services on behalf of the people of Michigan in the five Liberty Loan campaigns. He also was presented with a chest of silver inscribed with the official seal of Michigan. The presentation of the silver chest was made by Arthur Vandenburg.

Governor Sleeper and other state officials were present at the meeting.

SCOTT'S SOY BEANS

The Most Economical Legume. The Cheapest Source of Protien. The Greatest Producer of Nitrogen. The Most Profitable Catch Crop.

Should be planted with all corn for hogging off. be planted with all silage corn, because they add greatly to the production of fat; greatly increase the flow of milk; make a larger crop of corn; store up nitrogen and mellow the ground so that the following crop is larger.

The cost of planting with the corn is practically nothing.

The returns (for the above reasons) are greater than from any crop that is grown on the farm. For hay they can be planted until the fifteenth of July, producing a large quantity of nutritious and palatable feed, so well liked by stock that they will leave corn for it.

Many plant after oats and wheat have been removed. This means not only an additional amount of hay when the price is unusual, but builds up the ground for next year's grain crop.

Ask for our Soy Bean Catechism, catalog and prices.

Here are present prices. Immediate shipment can be made but please do not fail to give first and second choice.

		Per	Busnet
Mammoth Yellow -			\$3.75
Early Brown, Ito San, Elton		-	5.50
Hollybrook, Wilson, Haberlandt,			
Sable, Ebony and Morse	- '	-	6.00
Manchu, Black Eye-brow, Mediu	m G	reen	6.50
Ensilage and other seed corn	-	-	4.50

A nitrogen gathering crop is always the most profitable.

O. M. SCOTT & SONS COMPANY 763 SIXTH STREET, MARYSVILLE, OHIO

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AMERICAN BREEDING AND HATCHING CO.



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Owning and controlling over 500,000 Incubator capacity, with a proven scientific expert in charge at each hatchery. Auxiliary hatcheries throughout central and western states.

ONE GRADE ONLY

No fear of substitution of low grade chicks. Every chick hatched a "Quality" chick, any one which may develop into an Exhibition Bird. Certified chix are the bright, perky, fluffy kind that live.

What you all look for and seldom get. Certified chix are from the best proven laying

Extreme care is exercised in our egg selection from approved flocks.

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R.C. Br. Leghorn eggs \$1.50 per 15, \$8 per 100. Pekin duck, \$1.50 for S. W. Chinese goose eggs 40 cents each. Mrs. CLAUDIA BETTS, Hillsdale, Mich

Rhode Island Whites for eggs and meat: 15 eggs \$4.00 Chicks for sale. H. H. JUMP, Jackson, Mich.

S. C. Brown Leghorns. Heavy laying strain. Farm range. Eggs 15 \$1.25; 30 \$2.25; 45 \$3; 100 \$6, Postpaid. Floyd Robertson, R 1, Lexington, Ind.

Snowy White Rocks Fishel Strain, dandy layers \$1.50-15: \$4.50: \$7-100 Alr peepsid. Mrs Earl Dehnhoff, Vanburen, Ohio

5. C. B. Minorcas. Eggs from pen 1, \$3.00 per 15, from pen 2,\$2.00 per 15. Incubator eggs \$7.00 per hundred.

Pine Crest White Orpingtons. Egg that will hatch good, strong chicks 3 and 5 dollars per 15. (No baby chicks or eggs by 100). Mrs. WILLIS HOUGH, Pine Crest, Royal Oak, Mich.

White Strain hens mated to 7 Martin's Regal Strain Cockerels, 15 eggs by Parcel Post \$2.00 by ex. \$8 per 100.
VERN MOORE, Hartford, Mich.

W hite Wyandotte eggs for hatching \$5.00, \$3.00 \$1.50 per 15. \$7.00 per hundred. Pen No. 1, \$10 per 15. DAVID RAY, 709 Norris St., Ypsilanti, Mich.

Silver, Golden & White Wyandottes from fine quality Stock. Eggs by P. post prepaid \$3.00 per 15, \$5.00 per 30, \$3.00 per 50. O. W. Browning, R.2; Portland, Mich.

For Sale Mammoth' Bronze Turkey eggs for hatching.
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1400% Profit w.H. Graham, Middleton, Mo., worth of pork from \$30 worth of Milkoline in a sixty day feed. He made an actual test of this lot of hogs in comparison with another bunch. We could quote hundreds of testimonials, but the best proof is that we legally guarantee Milkoline to be satisfactory or refund your money, (you are the judge) and refer you os. W. Blyd. Bank of Kansas City, Mo., and R. G. Dunn & Co. MILKOLINE is just as good for Pouttry as for Hogs.

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bull calf, sired by our imported "EDGAR of DALMENY

recently sold in Scotland at the Perth Bull Sale for the record price of 2,100 guineas, or \$10,584.00 in our money. This goes to show the quality of the

ABERDEEN ANGUS

that Mr. Scripps is breeding. He enjoys seeing good stock on "Wildwood" and believes that

THE BEST IS NONE TOO GOOD.

"Edgar of Dalmeny" won the Michigan Grand Championship last Septemeber at the Michigan State Fair and was a winner in his class at the Chicago International last December.

We have a few females with calves at foot and re-bred to "Edgar of Dalmeny" that Mr. Scripps has consented to sell to reduce the fast growing herd.

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W. E. SCRIPPS, Prop.,

Sidney Smith, Supt. Registered Aberdeen Angus. Seven bulls from eight to twelve months old. Plenty of size best of breeding. Prices reasonable. Come and see them. Inquire F. J. WILBER,

WOODCOTE ANGUS

Established in 1960. TROJAN-ERICAS and BLACKBIRDS (Blackcaps).

eders and feeders of many International winners. Write For 1919 Bull Sale Catalogue

WOODCOTE STOCK FARM,

Cloverly Angus Bred cows, heifers and bull calves of good breeding. GEO. HATHAWAY & SON, Ovid, Mich. Purebred Angus bull, fifteen months old, extra good prospect; also will sell my herd bull Blackcap Modeler No. 216132.

F. J. LYON, Homer, Mich.

Breeders of Registered Aberdeen Angus cattle.
Several choice bulls for sale.
LANG BROS., Davison, Mich.

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GUERNSEYS

Just two young yearling bulls left, ready for service. Come and look them over quick, or write. They are the good ones. Priced to sell.

AVONDALE STOCK FARM, WAYNE, MICH.

Something Extra May Rose Bull Calf, Sired by St. Austell Dreadnought 34671, by Don Diavolo of Linds Vista, 23665, and from Miss Bees of Yellowdale, A. R. 583 lbs. B. F., and average record for three years of 510 lb. B. F. and a calf. Price \$200. Also several fine A. R. bulls of serviceable age. BALLARD BHOS., R. 4, Niles, Mich.

Registered Guernseys Four Choice Registered Heifer Calves-\$150 each-or \$500 for the four. J. M. WILLIAMS. North Adams, Mich.

GUERNSEYS BULL CALVES their range lambs in or adjacent to the



WESTERN CATTLE AND SHEEP CONDITIONS.

OLORADO and Utah have had two years of short hay crops and this last winter feeding season has been a long one. Hay is scarce and is bringing from \$20 to \$40 per ton. The great variation being owing to localities. In remote valleys the lower price. At freighting stations teams are being charged \$1.00 per head for over night at hay, which is costing \$50 per ton, after hauling and baling charges are considered.

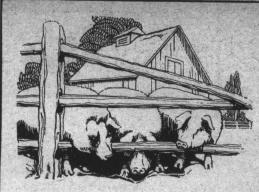
Cattle have gone through the winter on the very minimum of alfalfa, being estimated as low as one ton per head for cattle at feeding places. Cattle men are depending more and more on winter feed as insurance against winter losses. One feeder sustained the loss of but one animal out of seven hundred head wintered. The Indian River Cattle Company from Utah sold five hundred head of yearling steers to Colorado parties and were rebranded with the usual amount of noise near the hotel I was stopping at. These cattle were all full ages and brought \$45 per head. Considering their care and keeping, the eastern farmer could not compete, but when he sells a good Holstein male at fifty or sixty days for nearly that price he is doing the wise

The city sentimentalist who disapproves of selling veals ought to have a first-hand knowledge of his country and the cattle business before he expresses opinions. Other cattle sales and prices on the range are as follows: Three hundred and fifty head of twoyear-old steers, \$67; four hundred head of three-year-olds, \$85; one hundred native cows, with calves by side, \$90.

The Hereford blood is predominant as at least seventy-five per cent of the cattle are now white-faced. There is less of hostility between sheepmen and cattle men than formerly and many cattlemen have sheep, who will clean up weeds not eaten by cattle. The United States authorities are advising sheep to clean up certain weeds, poisonous to cattle but harmless to the wooled animals.

Shearing is already commenced and one clip sold at fifty cents with no real market establisher. The wool clip adjacent to Montrose will bring over half a million dollars. The prices for sheep are much lower than a year ago. Five thousand yearling wethers, delivery in Utah, wool off, have been offered at \$6.50 per head for June delivery; 1,200 yearling Cotswold ewes, wool off, at \$12.

One of the significant western facts is that the arid counties, like western Colorado and Utah, can winter more sheep than they can pasture in the summer. The Forest Service of the United States charges for government land used as pasture in the forest reserves and restricts the number so that the range is not overstocked. The dry valleys provide a vast amount of winter feed which cannot be used in the summer for lack of water. In the winter the light snowfalls on the foothills makes this dry feed available. The cut-over lands of Michigan the reverse, hence the great interest sheepmen have in this subject. There is, however, a popular impression that these Michigan lands are great swamp areas and unsuitable to sheep. Also that the Michigan winters approximate conditions in the Arctic circle. That there are no coyotes or wolves nor poisonous plants seems like an overdrawn story which is taken with some mental reservations. Some of the Utah sheepmen have partnership arrangements with Nebraska feeders to finish



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Guernseys Grade Heifer Calves Registered Bull Calves; write your requirements WALTER PHIPPS FARM, 80 Alfred St. Detroit, Mich.

GUERNSEYS must reduce herd, so offer Glenwood breeding also bulls, all stock of A. R. breeding, herd tuberculin tested, 1. V. HlOKS, Battle Creek, Mich.

Guernseys--Registered Females For Sale GEO. N. CRAWFORD, R. 2, Holton, Michigan.



Holstein Cows Breed Regularly

You are certain of results when you choose Holsteins: their characteristics are fixed through centuries of selection and breeding by a race of dairymen whose object has been to produce the largest possible amount of beef and milk from the same animal. They breed regularly and true to type, and are the largest, most vigorous of dairy cattle, the greatest yielders and the most economical to feed.

If interested in

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

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Containing blood of world champions.

HICKS GUERNSEY FARM. Saginaw. W.S. Mich corn belt. This has been found to be bull.

Registered Holstein Bull calves from A.B.O.cows up Rto 29.32 lbs. butter in 7 days, grandsons of the \$50,000 bull.

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We have what you want in BULL CALVES, the large fine growthy type, guaranteed right in every way. They are from high producing A.R. O. ancestors, Dam's records up to 30 lbs. Write for pedigrees and quotations, stating about age desired.

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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.

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"Winwood Herd" Holstein - Friesian Cattle FLINT MAPLECREST BOY

His sire is Maplecrest Korndyne Hengerveld. His three nearest dams each over 30.10s, of butter in 7 days. His dam and granddam both made over 1232 lbs. of butter in now year. It is the yearly cow we are looking for to deliver the goods. Flint Maplecrest Boy's Dam is Gluck Vassar Bell. 30.57 lbs. of butter n' 7 days and 121 lbs. in 30 days. Her butter fat test is 5.27. This looks about right to the man who goes to the creamery. We have bull calves from 2 weeks to 12 months old. From A. R. O. dams and sired by Flint Maplecrest Boy, which we will sell at a dairy farmers price breeding considered. Just think 40 more cows to freshen which means more bull calves. Let us know your wants. We will make terms on approved notes.

JOHN H. WINN, Inc.

Lock Box 249. Roscommon Mich.

Lock Box 249, Roscommon Mich. Reference Roscommon State Bank,

BULL CALVES

BULL CALVES

Mapleside

Korndyke

No. 112849. The sire's dam at 2½ years, granddam at 3½ years, and great grand-dam have

semi-official records averaging 842 lb. butter in
1 year. Dams of calves have A. R. O. records up
to 19.23 lb. butter in 7 days. Write for breeding
and prices.

PEACELAND STOCK FARM
Three Rivers, Mich. Chas. Peters, Herdsman
C. L. BRODY, Owner Port Huron, Mich.

615 lb. milk 26.97 lb. hutter 7 days aver, for 2 nearest dams of 4 mo. % white bull cast. Gddam 83 lb. butter 1902 lb. milk 10 mos. Also heiters bred to 26 lb. son Atkin's Mapleorest. M. L. McKaufin, Hedford, Mich.

Guarantee Quality Sale

ly from Herds under Government and State Supervision.

Carefully Tuberculin Tested by Government or State accredited veterinarians, and Guaranteed to be Breeders if of Breeding Age.

What can the buyer ask more? Just note the Quality of the cattle consigned to this Sale.

Two 26-lb. cows and a 24-lb. cow bred to Glen Alex King De Kol, a 43-lb. Bull with a 42-lb. Grand Dam.

A daughter of a 30-lb. cow out of a 38-lb. Sire.

Six good young cows and heifers nearly ready to freshen, and in calf to the Mighty Ragapple, a \$10,000 Son of Ragapple Korndyke 8th, and the 38-lb. cow, Ormsby Jane Piebe Segis.

A 26-lb. three-year-old, a 23-lb. Senior two-year-old, a 23-lb. three-year-old, a 28-lb. four-yearold, and a son of a 26-lb. cow, and a High Record Sire from the noted Traverse City State Hospital Herd.

A number of good A. R. O. cows safe in Calf to Bulls from Dams with records from 30 lbs. to 43 lbs.

Registered Holstein Cattle, most- Heifers that will be fresh at time of Sale, or soon due to freshen and bred to Sires from High Record Dams.

Choice yearling heifers and heifer calves from well-bred Dams and high-class Sires.

Five choice heifer calves, all from one 32-1b. Sire and their Dams, all from one 32-lb. Sire.

A few choice bull calves of excellent breeding.

This is the Buyer's opportunity to purchase healthy cattle of good type and breeding.

Remember the date and place of this Sale, Wednesday, May 14th, 1919, at the West Michigan State Fair Grounds, Grand Rapids, Michigan.

If interested, write me for a Sale Catalog.

Buyers of Holstein Cattle from other States should note that this Sale follows The Mark Piper Dispersal Sale which will be held at Flint, Michigan, on Tuesday, May 13th, 1919, and where 77 head of High-Class Holstein Cattle will be sold.

Plan to attend both of these Sales where Good Healthy Holstein Cattle can be bought in carload lots, and easily shipped to destination by purchaser.

D. L. PERRY, Auctioneer W. R. HARPER, Sale Manager MIDDLEVILLE, MICHIGAN

BULL CALF dropped April 29, 1919, about half white, a dandy at \$50 reg. and delivered. J. Bobt. Hicks, St. Johns, Mich. The Fifth Annual Sale Of

The Livingston County Breeder's Sale Co. will be held at

Howell, Mich. Wed., May 21st 1919. At 12.30 o'clock P. M.

78 head of High Class Registered Holsteins will be offered

A large percentage of the offerings either have A.R.O. records or are from record dams.

Among the lot are three daughters of 32 lb. cows and a 25 lb. 3 year old daughter of a 28 lb. cow.

A few high class young bulls will be included.

Many of the females are bred to bulls whose dams have records from 30 to

> Col. J. E Mack, Auctioneer. (Catalogs ready May 10th).

P. M. TAFT, Secretary, OAK GROVE, MICH.

HOLSTEIN BUI

READY FOR SERVICE

Grandsons of the \$50,000.00 bull with 18 and 30 pound dams. Prices reasonable. Write for extended pedigree and tell us what you want.

C. P. REED - Howell, Michigan

HOLSTEINS FOR SALE

Having sold my farm, will sell my entire herd of registered Holstein cattle. 14 females and one high class buil from the Flanders Herd, an inbred King of the Pontiacs. Females consist of 8-two year old, 4 fresh; three helfer calves at side, four due soon; one 6 and 7 year old, fresh; one helfer 8 months old. Do not wait to write, but come at once, as they will be sold reasonable. Breeding and quality considered. and quality considered.
H. B. CLARK, Northville, Mich.

For sale A fine registered Holstein bull calf from large producing ancestors, born Dec. 18, 1918. Would make a fine stre for impressing a grade herd. Price reasonable.

A. F. LOOMIS, Owosso, Mich.

THE HOLSTEINS

At Maple Avenne Stock Farm are under Goverment supervision. The entire herd have just been tuberculin tested and act one reactor. A good place to buy that tested and are looking for, and I have two very fine, richly bred, and splendid individuals ready for an amount of service. I want to answer any question you may ask about them.

L. E. CONNELL, Fayette, Ohio

30-Lb. Bull For Sale

His dam Uno Fearless Fannie Lady DeKol is a 30.19 lb. daughter of Fearless Fannie DeKol 27.44 lb. butter from 725 lb. milk and a sister of Trixy Stone who as a 4 yr. old made a world's record of 806.2 lb. butter in 359 days. EARL PETERS, North Bradley, Mich.

\$100 buys registered Holstein bull, large enough for service. 30 lb. breeding. Light in color. Good individual. B. B. REAVEY, Akron, Mich.

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

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

BUTTER BRED JERSEY BULLS CRYSTAL SPRING STOCK FARM, Silver Creek, Allegan County, Michigan.

Maple Lane R. of M. Jersey herd.

Calves sired by a nephew the new World's Champion, Sophie's Agnes, Also R. C. Red eggs and IRVIN FOX.

Allegan, Mich.

LILIE Farmstead Jerseys. Young bulls ready for service from R. of M. cows. A few bred heifers and Coopersville, Mich.

For Sale Jersey Bull, Goldie Foxhall Lad No. 129549
Dam Goldie Sophia No. 352783, this bull is solid color, black tongue and switch, dropped Mar. 16th. 1918, an extra fine individual, good enough that I will ship him C. O. D. Also a few bull calves. Address NEWMAN'S STOCK FARM, R. 1, Marlette, Mich.

The Wildwood Jersey Farm. Bulls for sale by Majesty's Oxford Fox 134214 and Eminent Ladys Majesty L5934, and out of R. of M. Majesty dams.

ALVIN BALDEN, Capac, Mich.

For Sale Registered Jersey bulls ready for service and bull calves.

48MITH & PARKER, R. 4, Howell, Mich.

Registered Jersey cattle for sale. 7 milch cows, 2 fresh. 1 due to calf. Two 2-year olds; two yearlings; two 1918 spring calves, one 1919 calf. H. B. DARNELL, Lake Odessa. Mich.

ALLEN BROS., Paw Paw, Mich.

Herefords Polled and Herned blood lines ombrace. Fairfax. Polled Per fection and Prime Lad St. b reeding. Prices reasonable. COLES & GRENER. Hudson, Mich.

Harwood's White Faces

A Ton Bull Heads the Herd The Ibeef cattle of the day. Only 2 yearling bulls left. My 1918 crop of bulls ready for sale. Will spare a few females. You can not make a better investment. I wish to thank my customers for past favors.

JAY HARWOOD, -: Ionia, Mich.

Herefords Bob Fairfax 494027 at head of herd. Stock for sale, either sex, polled or horned, any age, Priced right. EARL O, McCARTY, Sec'y, H. B. Ass'n. Bad Axe, Mich.

SHORTHORNS For Beef and Milk.

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

BIDWELL STOCK FARM,
Box B. Tecumseh, Mich.

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

Richland Stock Farm

SHORTHORNS
HOME OF THE MICH. CHAMPIONS
We offer for sale a few good dual purpose cows with calves at foot. Also two three year old bulls suitable for range purposes, We invite inspection.
C. H. PRESCOTT & SONS,
Office at Tawas City, Mich. Herds at Prescott, Mich.

Shortherns Scotch and Scotch Topped cows and heif-ers, priced right. Come and see them or write W. B. McQUILLAN, R.7, Howell, Mich.

Fairland Shorthorns. Bred for beef and milk.
Three young bulls ready for service also
bull calves for sale sired by General Claymore and
Walgrove Star. Price \$100 to \$200.
JOHN J. FOSTER & SONS, R. 5, Niles, Mich.

Milking Shortherns Clay bred young bulls DAVIDSON & HALL, Tecumseh, Mich.

Rosemary Farms, Williamston, Mich. young bulls Rready for service, Shorthorns bred for milk & beef. Herd estab. by Prof. C.H.Burgess, Mich. Agrl. College.

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

Shorthorns Central Mich. Shorthorn Breeders Asso-offer 37 bulls all ages. 17 females for oscar Skinner, Sec., Gowen, Mich.

Shorthorn Breeder at present. CHAS. WARNER, Jr. Imlay City, Mich.

Shorthorns 100 head to select from Write me your wants, price reasonable. Wm. J. BELL, Rose City, Mich. Shorthorn Scotch bull 2 years old, 3 good bull calves 7 mos. old for sale.
W. C. OSIUS, Hillsdale, Mich.

The Kent Co. Shorthorn Breeders have both males and females for sale. Ask about them.
L. H. LEONARD Sec., Caledonia, Mich.

Milking Shorthoms of best Bates breeding and O. I. C. swine. Bulls for sale 1 mo. to 1 year old.

E. H. KURTZ, Mason, Mich.

Milking Shorthorns Two Clay bred bulls for roan 9 mos. old. Corliss O. Blackman, Watervliet, Mich.

Roan Yearling Scotch Topped Short.
V. E. MORRISH, R. 5, Flint, Mich.

HOGS

R egistered Berkshire Boars; ready for service. A few gitts and sows bred for May and June farrow. Also spring pigs. CHASE STOCK FARM, Marlette, Mich.

Duroc Opportunity

What would the earning capacity of a Brook-water Boar be in your herd? A mid-west breeder states that the Brookwater boar he used added from \$75 to \$100 to every gilt bred to him. It payed this man to use one of our boars it will

It payed this hant we are offering at prices which appeal to the small breeder who must of necessity be a conservative buyer. We have a few that are good enough to be used in high class herds a prices in keeping with their in individuality and breeding. Money invested in a good herd boar very speedily increases the value not only of what you sell but what you keep. Send for price list or better, visit the farm.

BROOKWATER FARM,

Ann Arbor, Mich.

BROOKWATER FARM, Ann Arbor, Mich. HERBERT W. MUMFORD, owner, J. BRUCE HENDERSON, Manager.

OAKWOOD FARM

Nothing for sale at present booking orders for spring pigs (Duroes). Tax Payer and Gold Model breeding RUSH BROS., Romeo, Mich.

FOR Sale Duroc Jerseys of the big boned type fall pigs of either sex and taking orders for spring pigs. CHAS. BRAY, Okemos, Mich.

DUROC JERSEYS Fall pigs either sex also spring pigs pairs not akin. Sired by the Grand Champion and Junior Champion boars. F. J. DRODT. R. 1, Monroe, Mich.

REGISTERED DUROC BOARS—We have a choice lot of spring boars, sired by Michigan Cherry Col. No. 118479, Top Cherry King J. No. 102629, and Col. Defender 28th, No. 12705. Make your selection at weaning time and raise according to your own ideas. Write for pedigrees. The Jennings Farms, R. 1, Bailey, Mich.

SEVERAL GOOD

Duroc sows bred to Orion's Fancy King. Boar pigs ready for service. NEWTON BARNHART, St. Johns, Mich,

DUROC--JERSEYS E. D. HEYDENBERK, Wayland, Mich.

Duroc Jerseys. A few choice gilts bred to Brookwater King Special 111467. (A full brother to
Brookwater Lass D. the grand champion sow at the 1916
International). Carey U. Edmonds, Hastings, Mich.
DUROC Jersey's-A few extra good fall boars sired by
Orion Cherry King Col. 2nd. Bred sows all sold.
W. O. TAYLOR, Milan, Mich.

DUROC JERSEY-Two choice herd boars for sale, 1 Orion Cherry King, fail yearling: 1 Patifinds spring yearling: John Oronenwelt, Carleton, Mich

Hampshires Bred gilts and spring boar JOHN W. SNYDER, R. 4, St. Johns, Mich.



HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from y greed by these fine early developer—ready for market at sign on the old. Write for my plan—" More Money from Hogs. G. S. BENJAMIN, R. F. D. 10. Portland, Michigan

Chesters, March and April pigs in pairs or trios from prize winning stock prices reasonable satisfaction guaranteed F. W. ALEXANDER, Vassar, Mich

Breed The Best THE WORLD NEEDS LARGE FAT HOGS

Why lose money be eeding and feeding scrub hogs?
Two of our O. I. C. Hogs.
Weighed 28 06 Pounds.
We are the most extensive breeders and shippers of pure bred hogs in the world. Write today for the true story of the real O. I. C. Hogs. All foreign shipments

U. S. Government Inspected We have bred the O. I. C. Hogs since 1865 and have never lost a hog with cholera or any other contagious disease.

WRITE FOR FREE BOOK The Hog from Birth to Sale THE L. B. SILVER CO. 196 Heights Temple Bldg. CLEVELAND, OHIO

THE WORLD'S CHAMPION big type O.I.C'S. Stock of all ages for sale. Herd headed by Galloway Edd, the World's Champion O. I. C. boar assisted by C. C. Schoolmaster, Grand Champion boar of Michigan, New York and Tennessee state fairs. Also. C. C. Giant Buster, undefeated Senior boar pig wherever shown and Grand Champion of Oklahoma state fair. Get our catalogue of Grandeli's prize hogs, Cass City, Michigan.

Shadowland Farm

O. I. C.'s

Bred Gilts 200 to 300 lbs. from prize win-lings and 2 yr. old sows, big type, growthy boars of all ages, guaranteed as breeders. Everything shipped C.O.D. Express paid and registered in buyer's name. J. CARL JEWETT, Mason, Mich.

O. I. C'S. Serviceable boars of last summer and fall farrow.
G. P. ANDREWS, Dansville, Mich.

O. I. C. Bred Gilts All Sold. H. W. MANN, Dansville, Mich.

O. I. C. gilts bred for summer farrow and spring pigs any of them good enough to ship. C. O. D. F. C. BURGESS, R. 3, Mason, Mich.

O. I. C's' 2 Choice Yearlings Boars and Spring pigs.
Clover Leaf Stock Farm, R. 1, Monroe, Mick.

O. I. C's One very good yearling boar, a few last Sept.gilts, and this spring pigs to offer, registered free. It mile west of Depot. Oitzens Phone 19.

OTTO B. SCHULZE, Nashville, Mich.

O. I. C's pigs single or pairs not related.
C. J. THOMPSON. Rockford, Mich.

FRANCISCO FARMS

SHORTHORNS—POLAND CHINAS
Three choice heifers and a few young cows to offer.
Also fine good gitts bred for late springfarrow. Prices are attractive.

P. P. POPE, Mt. Plesant, Mich.

For 25 Years We have been breeding Big Type Poland China hogs of the most approved blood lines. Our new herd boar "Michigan Buster" is a mighty good son of the great "Ginnt Buster", dam "Mouw's Miss Queen 2". Some breeding! We are all sold out except a few fall pigs. J. C. BUTLER, Portland, Mich.

PiG Type Poland Chinas. A litter by Gerstdale Jones (Carter); one by Gerstdale King (Gerst). A Big Bob sow booked for service to The Clansman. Pigs by Mammoth Ben, herd boar, unexcelled. Mammoth Bea at 2 mos. weighed 450 lbs. Nothing for sale. Visitors welcome. WESLEY HILE, R. 6, Ionia, Mich.

P. C. bred gilts sold. For sale herd boar prospect 17 mo. old, wat. 600 lb. with quality, sire Buster Giant, 289593, dam Nemo L. 548940 an 800 lb. sow in flesh. Sire sold for \$1500, priced reasonable. Free Livery from Parma. W.E. LIVINGSTON, Parma. Mich.

Big Poland Chinas with quality. For summer and fall gilts, open or bred. G. A. BAUMGARDNER, R. 2, Middleville, Mich.

S. P. C. Bred sows all sold, 2 boars ready forservice also 1 fall boar, and fall gilts to breed for fall farrow.

H. O. SWARTZ, R. 1, Schoolcraft, Mich. Big Type Poland-Chinas pigs, sired by C. A. King Joe Big 290831, by King Joe 251257: Monster Big Bob 327623, by Luken's Big Bob 287777; Buster Half Ton 298225, by Luken's Big Bob 287777; Buster Half Ton 298225, by Great Big Half Ton 251243. Out of sows, whose pedigree, individuality and quality are of equal merit as my herd boars. Can furnish pairs and trios, not akin. C. A. BOONE. Blanchard, Mich.

MICH. Champion herd of Big Type P.O. Nothing for sale but fall pigs; orders booked for spring pigs. E. R. LEONARD, St. Louis, Mich.

Big type P. C. fall boars the big prolifice kind, their breeding traces to the best herd in Ill. Iowa, & Neb. C. E. GARNANT. Eaton Rapids, Mich. Large Type P.C.Nothing for sale now.Will be in mar-ket with better than ever this fall. If herd stuß counts. W. J. HAGELSHAW, Augusta, Mich.

Big Type P. C. boar and bred gilts. Choice Aug. pigs at a bargain. Saline, Mich.

Big Type P. C. Choice bred sows from Iowas greatest herds, the big bone prolific kind with size and quality.

E. J. MATHEWSON, Burr Oak, Mich. Big Type Poland's all sold out, nothing for sale at present. Beoking orders for spring pigs. Thanking my customers. L. L. Chamberlain, Marcellus, Mich.

Mammoth Poland Chinas all sold. General Jones heads our herd. Clyde Weaver, Ceresco, Mich.

Big Type P.C. Will have better males than ever JOHN D. WILEY, Schoolcraft, Mich.



SECOND EDITION.

The markets in this edition were revised and corrected on Thursday afternoon, May 8.

WHEAT.

Wheat trading has held steady in the face of wide fluctuations in corn pricsace of wide nuctuations in corn prices. Receipts have been comparatively small and the mills are ready to buy everything offered. The entry of Canadian wheat into this country will hold down prices to growers but the event is welcomed by the milling fraternity. Both flour and feed are in active demand. No change in even prospects is mand. No change in crop prospects is reported, and the outlook is very promising. A year ago the local quotation for No. 2 red wheat was \$2.17 per bushel. The visible supply of wheat decreased 11,821,000 bushels last week. Present Detroit prices are:

No.	2	red	 			\$2.70	
No.	2	mixed	 	 		2.68	
No.	2	white	 	 		2.68	

CORN.

The government seems determined to prevent grain prices advancing far above the present level. When quotations began an upward course early this week the U. S. Grain Corporation announced that preparations were being made to increase the shipments of corp. from Argentine and also to imcorn from Argentine and also to import wheat from Canada. This naturally had a bearish effect upon the mar-ket, and declines followed. Planting will be generally delayed by the recent rains. The American visible supply shows a decrease of 664,000 bushels. One year ago No. 3 corn sold locally at \$1.40 per bushel. Present prices are as follows:

No.	3	corn .							\$1.67	
No.	3	yellow							1.70	
No.	4	yellow							1.67	
No.	5	yellow							1.64	
No.	6	yellow							1.61	
No.	3	white							1.70	

Chicago has had an irregular market with prevailing prices for No. 3 yellow at \$1.72@1.73; No. 4 yellow \$1.71; July corn \$1.65\\(\pm_i\); September \$1.60.

OATS.

The new crop of oats in the southern producing states is progressing fairly satisfactorily, while to the north excessive rains will no doubt reduce the acreage and result in a more discouraging outlook through late seeding. Supplies of oats on the market are ample, and this allows trading to follow closely the changes in the corn follow closely the changes in the corn prices. A year ago standard oats sold on this market at 76½c. The visible supply has changed but a few thousand bushels since a week ago. Present Detroit prices are:

Stand	rd	
No. 3	white	6
No. 4	white711	2
	TO 3.787	7

BARLEY.

This trade holds about firm with a moderate amount of business being transacted. Local prices are unchanged with cash No. 3 at \$2.30@2.40 per

BEANS.

Michigan pea beans are holding a stronger commercial position than they occupied a week ago. In practically all of the leading consuming centers values have advanced. At Detroit the market is steady with good to choice hand-picked pea beans moving at \$8 and only a moderate volume of supplies on hand. The Philadelphia market is active and strong with prices for Michigan pea beaus marked up to market is active and strong with prices for Michigan pea beans marked up to \$8 per bushel. In New York a firm tone is reported with pea beans at \$7.50@7.75; best red kidneys at \$12.25@12.50, and Michigan white marrows at \$10.50@11.75. The trading in Boston is on a basis of \$7.75@8 for Michigan choice pea beans. The price for this variety in Chicago has advanced to \$8.40@8.60 per cwt. Over a thousand tons of beans are exported from New York City to England and the West Indies the past week. west Indies the past week.

FEEDS.

Market is strong with prices unchanged as follows: Bran \$45: standard middlings \$48; fine middlings higher. Beef steers, medium and heavy

**House the past week to the past w

\$52; coarse corn meal \$64; cracked corn \$65; corn and oat chop \$53 per ton in 100-lb. sacks to jobbers.

SEEDS.

Trading is very light and the market firm with prime red clover at \$26.50; October \$19.75; alsike \$26; timothy at

HAY.

Some improvement is noted in the supply of hay on the local market, but prices continue firm as follows: No. 1 timothy \$36.50@37; standard timothy and light mixed \$35.50@36; No. 1 clover \$32.50@33. Pittsburgh.—Receipts are very light and the demand strong at an advance over last week's prices. at an advance over last week's prices. Current quotations are: No. 1 timothy \$39.50@40; No. 2 timothy and No. 1 light mixed \$38.39; No. 1 clover mixed \$37@38; No. 1 clover \$36@36.50. \$37@38; No.

POTATOES.

Bearish sentiment has crept into potato markets and a weaker situation prevails. At Michigan points growers receiving \$1.75@1.90 for round whites at warehouses. Haulings are very few. At Detroit Michigan whites U. S. grade No. 1 are selling at \$3@3.25 per 150-lb. sack. The same grade is selling at Cleveland at \$3.50@3.65 per sack, and in Pittsburgh at \$3.40@3.50 per sack. In Buffalo the trade is paying \$2.40@2.50 per cwt; in Philadelphia at \$2.35 2.50 per cwt; in Philadelphia at \$2.35 @2.50; in Cincinnati \$2.30@2.35; Indianapolis \$2@2.15. The Chicago trade is weak at \$1.75@2.

BUTTER.

Butter values have declined during the past week. Increased production is already being noticed on the markets. At Detroit fresh creamery stock is jobbing at 541/2 @55c per pound. The Chicago market is unsettled with creamery at 50@55½c. New York trading is reported on a steady basis with the range of creamery prices at 56@59½c. Extra western creamery is quoted in Philadelphia at 56c. According to the Bureau of Markets, stocks of butter increased 416,000 pounds during the

CHEESE.

A considerable volume of trading in cheese is going on, with prices holding about steady. At Detroit Michigan flats sell to jobbers at 30½c; single daisies 31c; brick at 30@30½c. Chicago market is active with young Americas at 32@32½c; single daisies at 31¾ @ 32c. The New York market rules firm and increased offerings are being readily absorbed. State whole cream flats, current make specials, are quoted there at 32@32½c; do average run at 32c. Full milk cheese brings 36@36½c for new and 36@39c for old in Philadelphia in Philadelphia.

EGGS.

Values are slightly higher. The demand is broad and production in many sections appears to be easing off. At Detroit fresh firsts are selling to jobbers at 44%c; extra firsts in new cases

at 451/4c; storage packed firsts and exat 45 ½ ¢; storage packed firsts and extras in new cases 45½ @46c. Quotations are higher in Chicago with firsts at 42@44c; ordinary firsts 40½ @41¾ c per dozen; storage packed firsts and extras 44½ @45½ c. The New York market continues firm with the nearby western stock at 44@53c. The Philadelphia trade is jobbing western extras at \$13.95, and do firsts at \$13.65 per case. per case.

WOOL

Increased strength is noted in the wool market. Prices are advancing in producing sections. In Montana some dealers are paying as high as 60c; while fleeces of fine wools in Michigan have been recently purchased from the producers at 55@57c. In Ohio, and New York good wools bring 58@60c. The auction of navy wool in Boston was conducted at unexpectedly high prices and even outshone in results the recent auctions of army wools. Shearing operations are well under way and the 1919 clip is already moving. The organization of selling associations because of the conduction of selling associations of selling associations. 1919 clip is already moving. The organization of selling associations by producers is developing rapidly all over the country due to advantages over the old method of handling this pro-

CANNED FRUIT

There is a fairly satisfactory market for canned goods. This market will be pretty thoroughly cleaned up of old stock before new products are available. Distributors, however, are buying in a hand-to-mouth fashion and retailers complain that the prevailing high prices make it somewhat hard to move stock. Notwithstanding these move stock. Notwithstanding these drawbacks, holders of canned goods consider they have good property.

GRAND RAPIDS

Dealers in beans advanced the price to growers last week to \$7 per cwt. for Michigan whites, a \$1 advance over last week. The demand is strong and practically what is left of the 1918 crop is now in the hands of elevator men. Beans for foreign shipment are sought and during the week 350 cars of Michigan grown were checked over for export according to report for one of Michigan's heaviest operators on returning from New York. Farmers are asking \$40 per ton for hay. They sold on the city market last week at \$37@38. More potatoes were brought to the city market last week than could be readily absorbed. Price range was \$1.10@1.15 per bushel. At most outside points the price is \$1.25. The wheat situation is acute, with milling companies. At some points bids were made as high as \$2.85 per bu. Grand Rapids companies are paying \$2.60 for No. 1 red and \$2.58 for No. 1 white. Scarcely any is in the farmers' hands in this section of the state.

DETROIT CITY MARKET Dealers in beans advanced the price

Live Stock Market Service

Reports for Thursday, May 8th

BUFFALO.

On this market today pigs brought \$20.50, top hogs \$21.50 or 25c lower than yesterday's prices. Lambs sold up to \$17.25 and calves to \$16.50.

DETROIT

Cattle. Receipts 1,930. Market strong at

٠.	Lecocipis 1,000. Mainet stilling at
	Wednesday's prices.
	Best heavy steers\$14.00@15.00
	Best handy wt bu steers 11.50@13.50
	Mixed steers and heifers 11.00@13.00
3	Handy light butchers 9.50@11.50
	Light butchers 8.00@ 9.00
	Best cows 10.00@11.00
	Butcher cows 7.50@ 9.75
	Cutters 6.75@ 7.00
	Canners 6.00@ 6.50
	Best heavy bulls 11.00
	Bologna bulls 9.00@10.00
	Stock bulls 8.00@ 9.00
	Feeders 10.00@12.00
	Stockers 8.00@10.00
	Milkers and springers\$ 65@ 140
	Veal Calves

Receipts 1,956. Market today strong

Fair lambs	14.00@15.50
Light to common	11.00@13.50
Fair to good sheep	11.50@12.00
Culls	6.00@ 8.00
Hogs.	

Receipts 6,694. Pigs 50c lower and other grades 15@25c lower than Wednesday.

CHICAGO.

Hogs.

Hogs.
Estimated receipts today are 50,000; holdover 5,257. Market 20@25c lower than yesterday. Bulk of sales \$20.85 @21.10; tops \$21.20; heavy 250 lbs up, medium, good and choice \$21@21.20; medium 200 to 250 lbs, medium, good and choice \$20.80@21.15; light 150 to 200 lbs, common, medium, good and choice \$20.50@21.10; light lights 130 to 150 lbs, common, medium, good and 150 lbs, common, medium, good and choice \$19@20.75; heavy packing sows 250 lbs up, smooth \$20@20.50; packing sows 200 lbs up, rough \$19@20; pigs 130 lbs down, medium, good and choice

weights, 1100 lbs up, choice and prime \$16.85@19.75; do medium and good at \$13.25@17; do common \$7@13.75; light weight 1100 lbs down, good and choice \$14@17.25; do common and medium at \$10.50@14.25; butcher cattle, heifers, common, medium, good and choice \$8 @14.50; cows common, medium, good and choice \$8 @14.50; cows, common, medium, good and choice \$5.55@14.25; bulls, bologna and beef \$9@13.25; canners and cutters, cows and heifers \$6@7.75; do canner steers \$7.75@10.50; veal calves, light and headyweight medium, reselve light and handyweight, medium, good and choice \$14.25@15.25; feeder steers common, medium, good and choice \$10 @15.25; stocker steers, common, medium, good and choice \$8.25@13.50; do cows and heifers, common, medium, good and choice \$8@10.75; stocker calves, common, medium, good and choice \$7.75@15.25 choice \$7.75@15.25.
Sheep and Lambs.

Sheep and Lambs.
Estimated receipts today are 15,000.
Sheep steady; lambs lower; quotation for wool stock: Lambs 84 lbs. down, medium, good, choice and prime \$17.50 @20; do 85 lbs up, medium, good, choice and prime \$17.25 @19.90; do cull and common \$13@17.25; spring lambs, medium, good, choice and prime \$16@20.50; ewes, medium, good and choice \$12.25@15.65; ewes, cull and common \$6@12.25. \$6@12.25.

BUFFALO. Wednesday, May 7, 1919.

Wednesday, May 7, 1919. Cattle.

Receipts 15 cars. Market is slow; heavy and shipping grades 25c lower; butchers steady, prime heavy steers \$17@18; best shipping steers \$15@16; medium spring steers \$13@14; best native yearlings, 950 to 1000 lbs, \$15@15.50; light native yearlings, of good quality \$14.50@15; best handy steers \$14@15; fair to good kind \$12@13; handy steers and heifers, mixed \$12.00@13.50; western heifers at \$14@15; state heifers \$10@11; best fat cows \$12@13; butchering cows \$9@10; cutters \$7@8; canners \$5@5.50; fancy bulls \$11@12; butchering bulls \$9@ bulls \$11@12; butchering bulls \$9@ 10.50; common bulls \$7.50@8.50; best feeders, 900 to 1000 lbs \$11@12.50; medium feeders \$10@11; stockers \$10@ 10.50; light common \$8@9; best milkers and springers, \$100@150; mediums \$75@90

DETROIT CITY MARKET

Potatoes are moving freely on the city markets at \$1.25@1.35 for No. 1 stock and about 75c for culls. Apple prices range from \$1.50@3.75 per bu; navy beans 8@9c per pound; dressed pork 24@25c; fresh eggs 43@45c per dozen; country butter 65c.

WESTERN CATTLE AND SHEEP CONDITIONS.

(Continued from page 748). profitable arrangement for both

Sooner or later the up-to-date sheepraising proposition will be for example a Michigan hardwood land farm where nock to raise rams for the west, and the adjacent cut-over range lands for summer feed for the western surplus, particularly of stuff going to the block. Western men seem to feel that a ewe, up to the time she is ready to drop a lamb as a two-year-old can be raised cheaper and better in the west. The western sheep man as a rule concedes that a grain-fed ewe and the ram lamb that this ewe raises is an essential factor in flock maintenance. This Michigan can do to advantage. A partnership or stock company combining the mutual advantages would prove profitable. J. Mc B

WESTERN NEW YORK FRUIT PROSPECTS.

(Continued from page 726). Crawfords and similar varieties from twenty-five to fifty per cent were killed, but with the heavy set of buds there should be enough left to produce a good crop of peaches. Plums have been killed to the extent of fifty per cent. Although the apple and pear buds have been quite badly frozen, the tips of the small leaves showing the effects of the cold, there has been little injury to the fruit itself. Sour cherries have been badly frozen; the injury may reach ninety per cent of the buds.

Canners and preserving plants are contracting fruit in the Genesee valley, offerings eighteen to twenty cents a quart for strawberries and six to eight cents a pound for sour cherries. Attempts are being made to contract the peach crop at last year's figures; but growers believe they will receive at least \$3.00 a bushel for their better grade peaches this year.

Western New York fruit growers are making extensive preparations for growing and harvesting their big fruit crops. The community spraying service which has been operated successfully in Niagara county for several years will be extended to Monroe, Wayne, Ontario and other leading orchard counties. The community pack ing house system, which was tried out satisfactorily in Niagara county last year, has been adopted by the Wayne county peach and apple growers, and will be in operation, it is expected, in several Ontario county communities. E. E. R.

NEW HAMPSHIRE STARTS WOOL DRIVE.

WITH a view to stimulating sheep raising on a large scale, the Sheep Breeders' Association of New Hampshire has undertaken an active campaign and other New England states are moving along similar lines. The granite state organization has procured the services of Edgar A. Perry, a graduate of Massachusetts Agricultural College, who has had experience on ranches in Idaho, Oregon and Washington. Mr. Perry is starting by having a census taken in respect of the sheep business. The plan now in process of being worked out by the association contemplates pooling the wool of New Hampshire so as to obtain more advantageous prices and a better market. The organization will take consignments of wools either directly or through its agencies, and will sort them under competent supervision, then will attend to the marketing. Half a cent a pound commission will be charged to cover the expenses.

SELLING WOOL.

(Continued from page 724). selling end of the business and that if they couldn't trust the company to make satisfactory sales, they had better ship their wool elsewhere.

One big advantage in the connections made was that the company has no wools of its own to offer in competition to its customers for it does not buy and sell wool on its own account.

The idea of grading the wools locally before they were shipped was given up when it was explained that unless large amounts of wool were concentrated at a point but one line of each grade could be established. This would necessitate heavy, medium and light shrinking wools of one quality being sold together at one price which would be a rank injustice to the grower of the lighter conditioned wools.

While single shipments of wool will be welcome by the company it feels as does the Illinois Agricultural Association" that the saving in freight rates should be sufficient in most cases to make pooling the wools for shipment only advisable. L. L. HELLER.



HE accumulated manufacturing experience of over three-quarters of a century—and the judgment of over 20,000 Ideal owners—is back of the new, small 22 x 36 Ideal Thresher.

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Bunching, or cylinder winding is unknown in the Ideal—because the Ideal is designed on the principle of a steady, even flow of straw through the machine from the time it enters the cylinder until, free from all grain, it leaves through the stacker.

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Shaking alone wasn't a guarantee of complete separation, so we put sets of lifting fingers on the straw rack, that tear the straw open-rake it-beat it from beneath. Result-complete separation and no waste.

Then, to take care of the increased capacity due to these inventions and to make the Ideal do a perfect job of cleaning, we put in extra chaffer area. The chaffer in the cleaning shoe, with the adjustable sieve and our special system of wind control, guarantee a perfect job of cleaning without waste. Result-the kind of cleaning that gets "no dockage" at the elevator.

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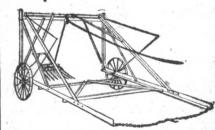
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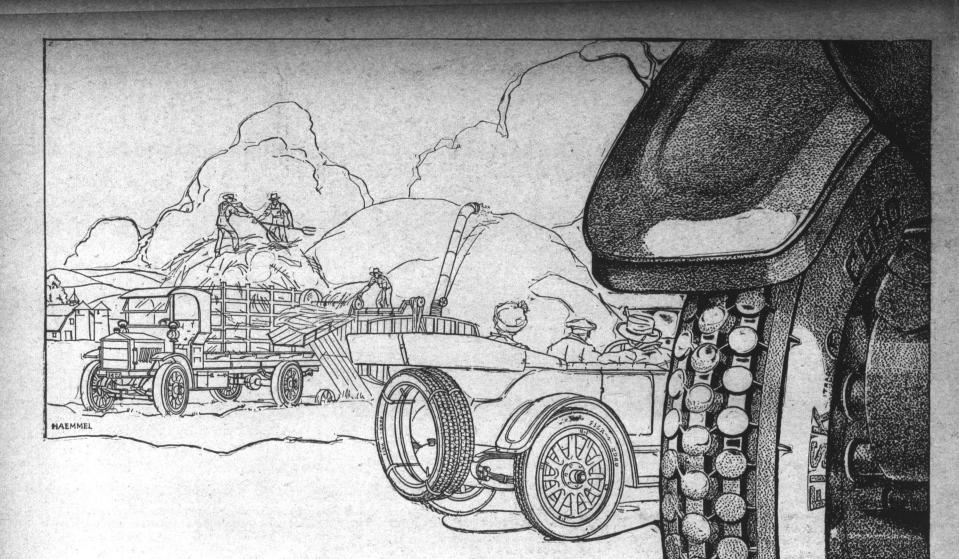
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