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Rural Life and the Young Farmer

No Other Line of Personal Endeavor Offers an Opportunity for Such Broad Personal Development as Does Agriculture

COUNTRY life must be raised out of the monotony. It is not enough that a farmer should be able to make money. His life should be personally satisfactory, according to a statement by the American Farm Bureau Federation, made after a very exhaustive review of existing conditions.

The new farm life will provide for better wages; better distribution of work and working hours; educational advantages will be improved; disagreeable tasks will be largely eliminated by up-to-date methods; steps will be taken to furnish recreations and amusements; the social side of rural life will receive more attention than formerly.

Although the world's immediate need for food is indeed serious, a broad consideration of the problem involves the matter of popularizing agriculture and country life for all time to come. Such a movement, if it is to be effective, must be conducted unselfishly, giving due consideration to each and every group and class that make up our nation.

Furthermore, it must be conducted along constructive lines. We must interest ourselves with putting rural life on a more attractive and higher plane rather than deprecating the real attractions of other society.

It is up to the farmer individually and collectively to boost his business. Agriculture must be advertised. The American public must be sold on the business of farming. We need more rural literature. Very little rural atmosphere can be discovered in popular fiction, histories, biographies or text books.

There are very few real advantages of the city that cannot be brought to the ruralist, but the basic fundamental advantages of free life in God's open country can never be transplanted into the city except to a very limited degree. For every advantage of the city there are corresponding advantages of the country. For every disadvantage of the farm there are innumerable drawbacks to urban existence.

The city worker gets more money than the farm laborer. He likewise spends more. The city man works a fewer number of

hours than the ruralist—but he consumes more time in going to and from his work. The farmer lives out among the hills and the meadows—the city man exists in the crowded fleshpots. The farmer gets his rent either free or at cost—the city man pays a fee large enough to cover the profiteering of both property owner and rental agent.

The farmer may have a crop failure on account of weather conditions—but the city chap often loses his job without even a cloud or a weather report to warn him of the impending danger and frequently the industrial employer is more uncertain and erratic than the providential control of the elements. The farmer may obtain his food

bustle of the metropolis, but competition for individual prestige and advancement is less keen in agriculture than in other industries.

The fact that farm labor is scarce, with wages higher than ever before, makes it possible for the young man who is agriculturally inclined to start on the road to independence. With an equal amount of energy and enthusiasm, starting without education or training, he can get his name on the bank directorate via the agricultural route quicker than by Michigan avenue, Broadway or Wall street.

We hear a great deal about high wages in the city but little is said concerning the liability side of the worker's personal ledger.

The net balance is the only basis upon which to compare the income of the city worker to that of the farmer. It is doubtful if there is a city anywhere where a man can secure room rent, food and laundry for less than \$17 a week. Thus the bare necessities of life cost him at least \$68 each month. To this must be added the expense of ultra fine clothing, continual effort to find extreme amusement and the high cost of just being a "good fellow."

No other line of human endeavor offers an opportunity for such broad personal development as does agriculture. By the very nature of

things, the farmer is independent—he must depend upon his own efforts—he must be versatile, self-reliant, adaptable—he must be a naturalist as well as a business man.

In the new era of agriculture, there will be innumerable openings in the line of special occupations and professions requiring a basic knowledge of agriculture and country life such as soil experts, plant doctors, health experts, pruning and spraying experts, forest specialists, drainage and irrigation engineers, recreation instructors, market experts, etc. These conditions and opportunities hold out an inducement to the young man who is considering his life work, which should not be passed over lightly, especially if he was born upon a farm and has the fundamentals of an agricultural training.



direct from the soil. In the case of the city dweller, the simple act of food distribution is infinitely more complex and expensive than the basic process of production itself.

Life in the country fosters individualism. The urbanite is merely a cog in the wheel. The city man is only one of the masses—the farmer is received by his fellow-farmers on his merits as a man.

Country life makes for physical and moral strength—the city is the graveyard of our national physique.

In the final analysis, the farmer has the upper hand. Agriculture is the most stable of all industries. Wars may devastate, panics may bankrupt, markets may become stagnant, but the farmer continues to live more or less as usual.

Country life may lack some of the zip and

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DETROIT, JANUARY 22, 1921

CURRENT COMMENT

Record Association Service

MANY breeders of pure-bred live stock are complaining of an increase in fees charged by several record associations for recording pedigrees. Some of these men have entirely lost sight of the fact that the mission of the modern live stock pedigree record association has materially expanded during recent years. The old-time practice of accepting the breeder's money and in the course of time sending him a certificate of registry and an occasional herd book failed to maintain the relative popularity of the different breeds and properly present their special adaptability to the various types of American farming.

The mere keeping of pedigree records is but one of the many lines of work conducted by the modern record association. Now every effort possible is made to get and maintain a personal contact with the men who are working with the breed. The officials of the record association spend a large portion of their time in the field visiting leading farms and addressing state and county breeders' association meetings. Very few breeders question the wisdom of this policy. Expert fieldmen are employed to visit breeders and explain the work of the associations in the recording of pedigrees, the conducting of public sales and the organization of state and county breeders' organizations. Thousands of dollars are spent each year in various kinds of publicity matter. And above all the good work of these organizations in protecting the health of our herds and flocks is worth more to the breeders of the country than the entire sum that it costs the breeders to maintain them. In handling such diseases as tuberculosis and contagious abortion the leading cattle record associations have performed a service of incalculable value to breeders of registered cattle.

The educational value of the different record association publicity matter is a feature of the work that is seldom appreciated by the man on the farm who has already decided that there is only one breed of horses, cattle, sheep or swine adapted to his conditions. Hundreds of farmers, however, who desire to make the change from scrub to pure-bred live stock, are anxious to have reliable information to guide them in the selection of the breed best adapted to their farms and surroundings. If your breed has suitable publicity matter, backed up by real facts showing what animals of the breed are capable of doing, your selling problems are simplified, so far as selling these

men is concerned. This is the kind of publicity that is putting your business to the front, and it costs money. The payment of higher registration fees is the only way that charges for such publicity can be distributed equally among all the breeders who participate in its benefits. The magnitude of the business of breeding pedigreed live stock is too great for a few men to carry all of the financial burdens of breed publicity work necessary to maintain supremacy. To allow unprogressive breeders to derive equal benefits with the men who are spending their good money for necessary publicity work is unfair. These are some of the reasons why some of our record associations have found it necessary to advance their registry fees.

DETROIT AREA MILK PRICES.

A DELEGATE meeting of the local organizations in the Detroit market milk area was called last week by the officers of the Michigan Milk Producers' Association for the purpose of submitting to the producers the proposition which the Detroit distributors had made for the purchase of their milk during January and February. This proposition was the result of repeated conferences between the officers of the association and the milk distributors. The officers of the association, who are selling agents for the members would not accept it, on their own responsibility, but finally agreed to call a delegate meeting and submit the proposition to the producers.

The meeting was attended by one hundred and fifty or more delegates from all sections of the Detroit milk shed. Informal discussion of the proposition before the meeting was called revealed a pronounced sentiment to leave the determination of the price to the milk commission which has functioned in this capacity for the past three years. Upon his arrival at the hour designated for the meeting, President Hull, of the association, explained the situation by stating that the distributors had not yet signed the petition for the continuation of the commission, and that in view of the unusual conditions prevailing, as to milk production and consumption in Detroit, they would not agree to have the commission function in the making of the price for the first two months of the year. Mr. Hull then stated that the best offer the officers of the association had been able to get was \$3.00 per cwt. for the first half of January, \$2.50 for the balance of January with no surplus, and \$2.50 for February with the surplus clause operative the same as last year.

Mr. Hull explained that the distributors had agreed in case of the acceptance of this offer to submit the making of prices for succeeding months to the milk commission as in the past. Messrs. Kennedy, Desert and Henry of the distributors were invited to present their arguments to the producers, during which presentation Mr. Kennedy stated that their agreement to the functioning of the commission in the future was with reservations, which contemplated an agreement with the officers of the association on the spread to be allowed the distributors.

During the discussion of the proposition Mr. Hull outlined the plans of the State Farm Bureau, with which the association is cooperating, for the better organization of the producers outside the Detroit area and other producing centers in which the membership of the association is largely concentrated. He also mentioned a plan under consideration for handling the surplus by manufacturing it into Swiss cheese, which brings a good price and competes only with an imported article.

After full discussion of all phases of the proposition the delegates present voted to accept the proposition made for January and February, for which

months the prices above noted will be paid to producers for their milk f. o. b. Detroit.

One phase of the situation which was the cause of some dissatisfaction among the delegates was the fact that several milk stations in the area had been closed while one station outside the old area continued to contribute milk to the Detroit supply. Mr. Hull explained that the dealers' contracts permitted them to elect what milk they would contract for and that some stations had been closed on account of increased production in the area. The one station outside the old area was one which a Detroit distributor owned and from which he had been shipping in milk for which he did not pay commission price, thus giving him an unfair margin, which he will relinquish in lieu of being permitted to continue bringing in this milk.

At this writing no agreement has been reported on calling the commission for another year. The status of this proposition will be noted in the next issue.

FARM BUREAU NEWS.

THE announcement made recently that there would be reduced rates to all farmers attending Farmers' Week at M. A. C., and the State Farm Bureau annual meeting, was released prematurely. The railroads find a provision by the Interstate Commerce Commission which makes it impossible to give such reductions. If any arrangement can still be made the State Farm Bureau announces, that it will try to let the farmers throughout the state know immediately.

The purchasing department of the State Farm Bureau has sent out an announcement of a contract with a fertilizer company which owns a group of large factories which guarantees a reduced price and an additional guarantee against any further decline until July 1.

In accordance with the resolutions of the delegates of fifty counties who attended the wool meeting at Lansing recently the executive committee has authorized a pool of the 1921 wool clip.

A special meeting of the executive committee has been called for January 24 to take action on a program of organization policies to be placed before the annual meeting of delegates on February 3-4 for consideration.

The State Farm Bureau has issued a call to dairy cooperative associations engaged in the manufacture of dairy products to meet in Grand Rapids on January 26. The main purpose of the meeting is to elect a representative committee of five men to take part with the committees from the Milk Producers' Association and the State Farm Bureau to work out a solution for Michigan's problem of dairy organization.

A bill was introduced in the state legislature last week by Representative Aldrich, of Cheboygan, which provides for the submission of an amendment to the state constitution to the people of the state which would bond the state for \$30,000,000 to create a fund to pay each soldier, sailor and marine in Michigan who served in the world war a bonus of \$15 for each month of actual service. The proposed amendment is so drawn that, if it should be passed at the April election, the compensation would become automatically available. Sentiment in the legislature seems divided on this measure, because of the fact that there is now a state deficit of \$6,000,000, that in the next two years the state is facing a state tax of twice the size that it has ever experienced before, and also that there is considerable merit to the proposal that Michigan compensate its men who went to war to some extent, inasmuch as the average man in the service received about \$30 a month and many of them were forced to give up good positions to go into service.

Farm Bureau Questionnaire No. 2.
Last week the State Farm Bureau sent out another questionnaire to ascertain sentiment. One question was on the subject of the proposed bonus for war veterans, another was on the subject of the advisability of tax income to replace the present personal intangible tax on bonds, mortgages, etc., which is advocated by the state tax commission. Governor Groesbeck in his inaugural message pointed out to the legislature that at the present time eighty per cent of the state taxes are paid by realty and twenty per cent

by personal property. The proposed state income tax would be modeled after the federal income tax and be similar to the income taxes now in operation in Wisconsin and New York states. The third subject of the questionnaire is in the nature of a straw vote. The farmers of the state are asked to indicate their choices for two nominees to the State Board of Agriculture. The explanatory matter on the questionnaire related to this subject as follows:

"The work of the Michigan Agricultural College should be an important consideration of every farmer of the state as it has been in the past and should be in the future of valuable assistance in the working out of farm problems and in the training of young men and women for agricultural pursuits.

"Two members of the State Board of Agriculture, which directs the college, retire from office this year. They are W. R. Wallace and I. R. Waterbury. Nominations for these two places will be made by the state republican convention in Detroit on February 17. It may be assumed that, as is usually the case, nomination will mean election. It is most essential, it is believed, that members of this board have an intimate appreciation of things agricultural. The delegates to the convention undoubtedly will listen to suggestions from a large percentage of the farmers of the state. If these farmers, however, fail to indicate any desires in the matter, it would not be surprising if, as has happened in the past, men may be nominated and elected whose interest in agriculture is solely incidental to other interests. So the State Farm Bureau is asking that two suggestions for nominations to places on this board be written in on the spaces below. The results of this straw vote will be sent back to all counties in time so that they may be presented to the various county conventions, February 7, when delegates to the state republican convention will be selected. The farm bureau, as an organization, will not urge any candidates, but intends merely to act as an agency that will permit the farmers of the state to correlate desires."

I. R. Waterbury has reaffirmed his decision not to be a candidate for reelection to the State Board of Agriculture. Mr. Waterbury will have been in continuous public service in some official capacity for thirty years at the expiration of his present term. He was first appointed to fill a vacancy on the State Board of Agriculture nearly fifteen years ago and has since been twice reelected. He now feels that the honor, and the gratuitous burden of service which accompanies it, should be passed on to some other representative farmer who has a like interest in education for the betterment of Michigan agriculture.

News of the Week

Wednesday, January 12.

THE Austrian government informs the entente that she has reached the end of her resources and will place the administration of the country in the hands of the reparations commission.—Fire does a million dollars of damage in Lexington, Ky.—France will not fix the war indemnity to be paid by Germany until the amount of the damage can be accurately estimated.

Thursday, January 13.

THE ministry of France is defeated when the opposition stood solid for a strict enforcement of the treaty with Germany.—A French destroyer sinks a Bolshevik ship on the Black Sea.—A bill providing for the regulation of the coal industry is now before the United States Senate.—Serious friction in the Mexican cabinet is causing uneasiness in official circles of that country.

Friday, January 14.

IT is understood that the allies are considering an effort to save Austria by floating a \$250,000,000 loan.—A serum for the prevention of foot-and-mouth disease has been discovered by a commission of French experts.—General Crowder, special representative of President Wilson to Cuba, states that the island government is facing a collapse.

Saturday, January 15.

THE United States Senate votes to reduce our army to 150,000 men.—Two earthquakes are reported in northern Italy.—The Philippine senate will float a \$10,000,000 bond issue in the United States.—The United States Senate votes to provide for the operation of the Muscle Shoals nitrate plant.—(Continued on page 109).

Why Wool Sold at Four Cents

Here is the Story of How the Wool Market was Completely Demoralized—

By J. N. McBride, Chairman Wool Committee of American Farm Bureau Federation

THERE was a small clip of wool taken off sixteen sheep and sold recently in an interior town for four cents per pound. The owner had hoped to realize more, and yet there was no established market. He should have realized at least twenty-five cents per pound; but he was one of a great many others who received this blow because of national and international conditions which every wool grower ought to know.

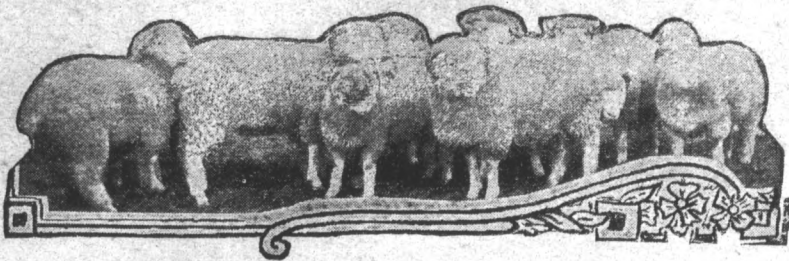
During the war the wool from Australia and New Zealand was taken over by the English government, but owing to lack of shipping was not extensively moved. One may well wonder why, with the war ceasing in 1918, that the wool market held up strong until in June, 1920. This is explained by the fact that English guarantee of wool will not cease until June of 1921, and the grower of the southern hemisphere will realize considerable above pre-war prices. This aggregate of wool is variously estimated but probably is in the neighborhood of two billion pounds, with still more to follow from the antipodes. This enormous aggregate of wool is offered in parts at auction from time to time and if offers are not satisfactory the wool is withdrawn.

Now the scene changes to the United States where we had around fifty million pounds of nondescript wool. This was the rag-tag and bobtail of the United States holdings and was very undesirable. These offerings were made by auction this last summer about the time carload offerings of wool would ordinarily be moving. The prices offered seemed ridiculously low at the time. There was at this same time a large amount of war fabrics being marketed and cancellations of fabrics made by the mills on orders, commenced to come in. The morals of these cancellations is one of the trade questions on which the outsider is not always well posted. But there are several bits of information well worth remembering. High-priced wool and dyes had invited lighter weight fabrics and when possible more of shoddy was used. The tailors claim that these grades of goods were put over in some cases with the assurance of a great shortage and that these grades must be taken or nothing.

The wool mountain in England's hands and the untimely offerings of the United States holdings seems to have been the occasion of the market's disappearance. On the whole, the United States government precipitated what the English government did not plan to happen, and to make matters worse there was no tariff to prevent imports into the United States.

In Australia it was not necessary for the English government to actually buy all the wool, but could simply make up the difference in the price guarantee. When the break came it was to the advantage of England to have a difference in exchange. When an American importer would buy a draft for one pound sterling (at par \$4.86) in United States money, he would get this pound draft for around \$3.40 to \$3.60 and when sent to Adelaide for wool he was paying somewhere near the government guaranteed price. This amounted to around eleven cents per pound for the Australian wool in the grease as measured in the gain of our money when sent abroad.

If we had a tariff of eleven cents per pound, the United States would have collected this back as customs duties and in this way evened up the difference in exchange. The present



Fordney measure under these conditions is very moderate, in fact, only about four cents of a tax, if the tariff is a tax, as the other eleven cents of the fifteen cents duty is exchange difference. There is no doubt that Secretary Houston could have, under the war control measure, placed an embargo on these imports by which we were breaking the heart of the American wool grower and scattering his herds, many of which will never be restored. This financial loss to the

wool grower aided the payment of the English government control price and wrecked the American sheep industry. The administration which showed such solicitude for the distillers, wanting to give them a chance to sell whiskey before constitutional prohibition became effective sought no means of saving the shepherds' flocks.

The scene again shifts to continental Europe with some of the best textile plants in the world and no purchasing power. The German mark in pre-war

times worth twenty-three cents, is now worth 1.6 cents. Prior to the war Germany was a great user of wools, in fact, would use one-third of the Australian clip. Europe also used the coarser wools from South America. The lack of purchasing power of continental Europe precluded them from the market and turned these coarse wools to the United States. There is in the hands of the alien enemy custodian funds of at least \$500,000,000 available as a basis for credit to Germany and Austria. To put it plainly, this money could have been used to send wool to those countries and accept future payments if made, and if not, charge this fund against the unpaid credits, but we are still at war legally and no movement made to create a market.

In the meantime England's wool holdings are sent to Germany, financed by Holland and probably England as well. The German workman getting twenty to fifty marks a day is working up this wool and it is already appearing as fabrics and sold below our market prices. This is being worn by operatives in large plants because it is being paid for in England where our \$3.64 pays for \$4.86 worth of goods. We are still supporting that great English wool aggregation of guaranteeing to the wool growers something above pre-war prices. Those two and a half million bales of wool in England are not being diminished because the government does not cease until June 30, 1921.

These conditions from the administration's standpoint did not seem sufficiently bad for the wool grower when he had consigned his wool at the eastern seaboard and received advances from commission merchants. Refunds were asked or the wool must be sold. The western wool grower sought his banker, who told him that he would gladly renew his loans, but the Federal Reserve Bank through which he must secure currency for his paper had advanced the rates and was refusing any further discounts. The man who sold his wool for four cents per pound may now see that he is a part of a great world stage and that the wool play is a tragedy when played alone.

The Michigan wool pool of the farm bureau was planned by men who felt that collectively they could best meet unfortunate conditions. There is a future for the wool and sheep industry. If the emergency legislation fails now it will be enacted early next summer. Under normal conditions there is no over-supply of wool. As soon as the purchasing power of the people recuperates, with it comes confidence and wool will be in demand at or above pre-war prices. The Michigan wool pool set the pace by withholding its supplies which represents approximately one per cent of the wool grown in the United States, and preparing for storing that of 1921.

There are approximately 18,000 wool owners who have contributed to the Michigan pool, which is about one-half of the state's fleece wools. The actual carrying charge in storage and insurance will be about one and one-quarter cents per year. This does not include essential items of handling like grading, sacking and shipping out, which are essential merchandising charges, but merely the "carry-over" cost. The Michigan wool growers have nailed their flag to the mast of collective selling and will never turn back to the old methods. When they have lived through a year of governmental blunders they have still faith in their industry and themselves.

The Bean Situation

MICHIGAN produces more beans than any other state except California, but grows more white beans than all other states combined. Only a few per cent of the Michigan crop is of the colored varieties while a large portion of the California crop consists of limas, red kidneys, and other varieties outside of the white pea beans. One of the difficult things to understand is the marked decline in price of beans in connection with the greatly reduced production.

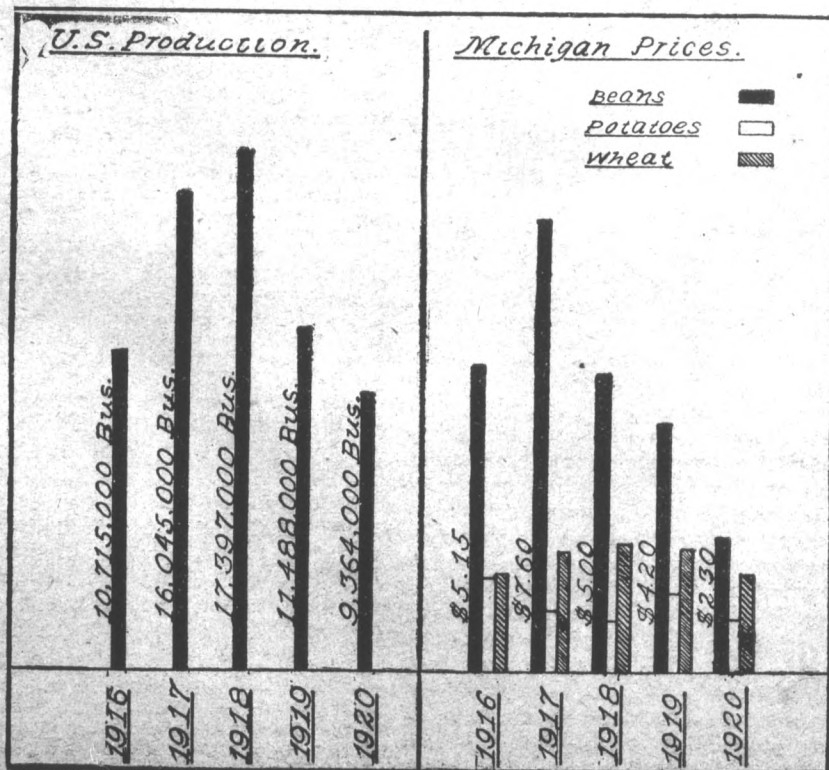
The United States crop in 1918 was 17,397,000 bushels. The production dropped to 11,488,000 bushels in 1919, and the 1920 crop is estimated at 9,364,000 bushels by the United States Bureau of Crop Estimates. At the same time, the price dropped from \$7.60 per bushel on December 1, 1918, to \$4.20 per bushel on the same date in 1919, and to \$2.30 on December 1, 1920, in Michigan. While a decline in sympathy with the falling prices of all other products might be expected, it would hardly be expected to exceed that of other crops in the face of the unusual decrease in the acreage and production of the bean crop.

The accompanying chart shows the

production for the United States for the last five years, and Michigan prices on December 1 for each of those years. As a comparison the prices of wheat and potatoes, the chief food competitors of beans, are shown on the same chart. The price of wheat is now eighty-two per cent of the price paid three years ago, while beans bring only thirty per cent of the price at that time. Potatoes on December 1 brought eighty-eight per cent of the price three years ago.

The bean crop was not only the largest in 1918, but the imports exceeded the exports by about two million bushels. In 1919, the excess of imports over exports was about 1,100,000 bushels, and in 1920 it is understood that the imports have been still less.

The only plausible explanation of the extraordinary slump in price in the face of a greatly reduced production is that considerable quantities were canned or otherwise stored during the war period, and that this surplus is now being used. If this be true, the demand should improve when this surplus carry-over is sufficiently reduced and when the canner manufacturers resume buying.

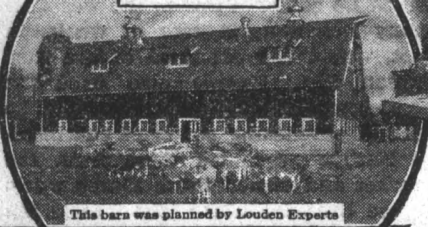


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Live Stock Meeting

Optimism Prevails at Annual Session

THE live stock producer's case is not as bad as it might be, there are brighter days ahead, and if he takes not his hand from the plow, he will find business conditions readjusting themselves and the furrow behind him springing up with the verdure of prosperity as before. This is the spirit of members of the Michigan Improved Live Stock Breeders' and Feeders' Association which, along with the fifteen allied breeding organizations held its annual meeting at M. A. C. last week Wednesday and Thursday, January 12-13.

Growers of live stock were advised to stick to diversified farming as the safest plan, to observe the utmost economy and at the same time to increase the efficiency of their industry through the elimination of the scrub sire, the eradication of tuberculosis and improved methods of marketing. The business readjustment may not come immediately, they were told, but in the meantime the industry may be so reorganized that when the turning point arrives it will be in a position to reap its just return.

Dean Robert S. Shaw, head of the agricultural division at M. A. C., sounded the keynote in the opening address of the general session when he stressed the necessity for avoiding specialization. "My suggestion would be this," said Mr. Shaw. "Produce a variety of staple farm products to feed the people and to be used for the manufactures of the world. It is a bad time to specialize. We need a balancing rather than an unbalancing. General or diversified types of farming will be safest in the near future."

Dean Shaw then cited as examples of possible plans of action, four and five-year rotations of crops, calculated to stimulate the production of live stock and reduce the overhead expense. On an average farm of one hundred and sixty acres, such as his own, he advised a herd of perhaps ten dairy cows, from two to four brood sows, about fifty hens, and sheep if the farmer preferred to raise them. This plan he declared, would make for safety of investment, economy of labor, efficiency in distribution and maintained fertility of the soil.

STEPS aimed completely to stamp out tuberculosis from Michigan herds were taken by the association as a whole when it accepted the report of the resolutions committee recommending that the legislature be urged to pass a law requiring all cattle offered for public sale to be tuberculin tested. Some members were in favor of extending this provision to include a general survey of the tuberculosis situation with examinations of all the herds, but this idea was rejected on account of the expense it would involve.

The move to free the state altogether from losses of cattle by tuberculosis was urged, both by H. R. Smith, commissioner of the Chicago Live Stock Exchange, and A. J. Glover, editor of Hoard's Dairyman. It had the strong support of H. H. Halladay, newly elected president of the parent association; of H. W. Norton, field secretary for the Holstein-Friesian association, and others.

Herbert E. Powell, of Ionia, retiring president, raised the point that the law as suggested would affect chiefly those farmers forced to sell hurriedly and thus work undue hardship, but in

answer others argued that no great progress is made without working some inconvenience to individuals and that in this case the benefits would far outweigh any individual hardship.

AS for the movement to eliminate the scrub sire, a resolution drafted by a committee composed of representatives from each of the allied associations urged a law working toward this end. To further the passage of such an act the secretaries of all the separate bodies were appointed a committee.

Another method by which breeding stock may be placed on a higher level was suggested by W. L. Houser, president of the Wisconsin Live Stock Breeders' Association, who described the project planned in his state whereby the association is undertaking to replace all grade sires with pure-bred animals, trading on a fifty-fifty basis. Demonstration trains will be used to bring about the exchanges, it is expected. This project came into being after a census carried on through school children revealed that more than half of the sires used in the state were scrub bulls.

That it is "up to" the present owners of pure-bred stock to aid their neighbors in raising the quality of their own, for the good of the industry in general, was also expressed by Mr. Glover and L. Whitney Watkins, of Manchester, member of the state board of agriculture.

"We must aim for good animals, free from disease," said Mr. Glover. "We must do this by eliminating the poor. Those men already established in the business should help the beginners to start with good cattle. The real object should not be money. It should be to raise the standard of living in the country through increased efficiency and cooperation."

Mr. Glover also ridiculed the idea of attempted price-fixing on a cost plus basis. "We need farm accounts," he said. "We need to know the cost of production, not to obtain a price that is cost plus, but to adjust the activities of the farm. I am not worrying about the people on the land. If a great many are going to the cities it is a sign that there are too many in the business of producing food. On the other hand, when men out of work are starving in the cities, a man on the land is fortunate. But these things will adjust themselves to the fluctuations of business conditions."

A MICHIGAN market for Michigan beef was the chief point of Mr. Watkins' remarks. He also favored diversified farming during the emergency, but urged that the inefficiency of cross-shipping be eliminated so that the farmer himself and not the middleman may receive the return for his efforts.

"Why should we ship east when we have the fourth largest city in the United States in the state of Michigan?" said Mr. Watkins. "At present eighty-five per cent of Michigan live stock is killed outside the state, while from a half to three-fourths of the meat consumed is shipped in. 'But we may fail,' is the cry. That is true, but we will never win if we do not try. Why, Detroit cannot be opened up as a market for Michigan producers I cannot see." He believes that the small-

(Continued on page 96).

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Ridding Flocks of the "Con"

Drastic Measures Are Necessary Once Tuberculosis is Established—By R. A. Runnells, M. A. C.

If you will glance at the accompanying map you may become alarmed, and rightly you should. Each X indicates a flock from which tubercular fowls have been sent to us for examination and diagnosis. If you will observe closely you will notice that of all the counties in the southern half of the lower peninsula only a half dozen have not yet sent in to us tubercular fowls. And you will also notice that Ingham county shows a total of nineteen infected flocks. This does not indicate that there are more tubercular fowls in Ingham county than in any of the others. The probability is there are as many, if not more, tubercular flocks in some of the other counties. Ingham is more accessible to the college and it is much more convenient for her poultrymen to send in hens for examination than for those living more distant. The fact that we have not found the disease in many flocks from the northern half of the lower peninsula, or in flocks of the upper peninsula, does not indicate that the disease is not prevalent in either of these sections. The truth of the matter is, we very seldom receive fowls from those parts of the state for examination for any disease.

With each hen brought or sent in we usually get the following information from the owner concerning the disease in his flock: "During the past three or four months I have been losing hens. A few die off each week. Only the old hens seem to be affected. As yet none of the pullets have died. The fowls gradually become sick, sit around a good deal, some become lame, others develop a diarrhea, but all gradually waste away, their combs and wattles turn pale and finally they die. Usually their appetites remain fairly good until a few days before the end."

We examine the fowl, and this is what we commonly find: The liver usually is somewhat enlarged and covered with yellowish white spots that vary in size from a mere pin point to nodules as large as a pea. The spleen, which lies directly beneath it and is ordinarily as large as a small cherry, is also greatly enlarged and covered with nodules similar to those on the liver. Along the intestines we may find nodules as large as pin heads, or even as large as marbles. Frequently upon opening the joints of the legs we find a cheesy deposit in the joint cavities. At other times we find nodules in other parts of the body. In fact, we have found them in almost all parts of the body, even on the skin. Upon making a microscopic examination of these nodules we almost always find the germ causing tuberculosis.

The poultry raiser then wants to know how his hens contracted the disease and how he is to get rid of it. It is difficult to answer the first question correctly, and painful to us to answer the second. The first question is difficult to answer correctly because there are so many ways possible for a hen to contract the disease, but it is usually safe to say that she contracted it from another hen that already had it. Assuming that you have a healthy flock today, how may you get tuberculosis in it? By any one of the following methods: By buying and adding to your flock a cockerel or a hen that comes from an affected flock, by exchanging cockerels with a neighbor who has the disease in his flock, by borrowing infected hens to set, and

lastly, by purchasing eggs for setting which have been laid by infected hens. This latter method is not very important, however. There are other ways hens may become infected with tuberculosis but there needs to be more experimental work done to prove just how important they are.

For instance, it is thought that the feeding of milk from tubercular cows, or the allowing of hens to feed in the droppings of tubercular cattle and hogs,

or the feeding of uncooked garbage in which may be tubercular meat scraps or sputum from tubercular people, may be very dangerous practices. Also it is believed that sparrows and pigeons affected with the disease may bring it to a healthy flock of hens. But even though all these latter sources of infection should be looked upon as being very dangerous we should not lose sight of the fact that probably more fowls contract the disease by being brought in contact with others affected with it than contract it in any other way.

We stated that it is a painful task to tell a poultryman how to get rid of this disease. It is so because we realize that the methods we must recommend for him to pursue may mean the undoing of several years' effort at constructive poultry breeding and a considerable financial loss. Our recommendations are usually these: Go through the whole flock, pick out all sick or emaciated birds, kill and burn them. Kill and pick the others. When you get ready to draw them have your local veterinarian come in and inspect the internal organs for signs of the disease. All those showing evidences of the disease should be burned at once and the healthy ones may be used for food. The next recommendation is to thoroughly clean the hen coop. Remove all the litter and loose boards. Scrape the floor if it consists of boards and be sure to remove the litter from between them. Next, make up a strong solution of any reliable coal-tar disinfectant and apply it with an orchard spray pump if possible. If such an implement is not to be had, apply the solution with a brush, keeping in mind that the application of the disinfectant does no good unless everything is first cleaned thoroughly and unless the floors, walls, roosts and dropping boards are literally drenched with the liquid. If the floor is dirt, remove the top three inches and replace it with fresh soil. After this is done rake up the litter in the yard and haul it, with the litter from the coop, to a field to

(Continued on page 105).



Each Cross Shows an Infected Flock.



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Bankers are keen judges of what is "good" and what is "bad" in the business of farming. The Federal Land Banks, and bankers in general, consider good fertilizers a sound investment always. The world must have food—a new supply must be grown annually—over-production and low prices one year usually mean smaller production and higher prices the next.

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And that is the sort of farmer who insists on good fertilizers. A A C Fertilizers are good fertilizers. They are a farm asset that never fails to make farming a better business—each crop a better crop—than it would be without them.

When you use A A C Fertilizers you put into your agricultural efforts the results of over half a century of crop and soil study, of thousands of field tests—fertilizers made right from the best ingredients the four corners of the earth can provide.

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Suggestions as to the best fertilizers for your soils. Booklet "How to Get the Most out of Fertilizers". The A A C Agency if we have no dealer near you.

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For bigger crops, break up the Soil crust with a Planet Jr.

A baked and crusted soil does as much damage to your crops as cold or dry weather. Cultivate with a Planet Jr. to break up the soil and keep it from baking, to give the roots air and warmth, to form the dust mulch that holds in moisture and soaks up the rain.

Not only does the Planet Jr. work thoroughly, but because of its scientific construction, strength and lightness, saves time and labor as well, doing the same operation better than any other implement.

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Write for the 72 page, free, illustrated catalog of Planet Jr. Implements.



Planet Jr.



Placing the reinforcing steel of the door opening.

A Natco Silo

**Costs a Little More—
Lasts a LOT Longer**

IT does cost more to build with everlasting Natco Hollow Tile than with materials that soon decay, but it's far cheaper in the long run. A Natco Silo will not rot, burn, burst or blow down. It has no hoops to tighten, needs no painting and seldom any repairs. You can pass a Natco Silo to your children practically as good as new. Or the farm will bring more should you wish to sell.

Farmers who figure costs closely are using Natco Hollow Tile for silos, dairy barns, hog houses, dwellings, etc. Our book "Natco on the Farm" describes and pictures many such uses. Send for it today—no charge. Ask your building supply dealer to quote you on Natco Hollow Tile.

National Fire Proofing Company
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23 Factories assure a wide and economical distribution.

Foundation and bottom courses of a Natco Silo. Note the still air spaces and the steel reinforcing bands.

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One pull of the lever locks in or releases as many as 50 cows just as easily as one. Swinging stanchions set at exactly the right angle; cow cannot get her head in wrong. Comfortable and secure. The only perfect locking system invented. None other like this one. Any boy can operate it. Saves thousands of steps.



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Farmers' Week Program

M. A. C. to be Mecca of Farmers

ANNUAL meetings of a dozen leading state agricultural associations; speakers of national reputation in the business, political and agricultural world; exhibits covering every phase of farming, and many features of general entertainment have been scheduled for the 1921 Farmers' Week at the Michigan Agricultural College, from January 31 to February 4.

The annual Farmers' Week has come to be by far the biggest meeting or convention of farm people held in the state, and the announced program for this year's events indicates a bigger and more practical gathering than any of the earlier ones. Discussion of these vital questions facing the farmer in these strenuous days of reconstruction, and a presentation of advanced agricultural practices through exhibits, will mark the work or "business" side of the conference, while interesting

convene on the last two days of the week, February 3-4. This association, with its membership of 95,000 farmers, will represent the largest single unit at the meetings. Agricultural exhibits are to feature "Marketing" this year, including some emphasis on economical production. Centering in the live stock pavilion of the Agricultural Building, the exhibits will fill most of the available space in various college buildings.

Most interesting of all from many points of view will be the big M. A. C. exhibit which won such widespread notice at the International Hay and Grain Show in early December. This exhibit will be produced in entirety in the live stock pavilion, so that Farmers' Week people will have a chance to see the pictured presentation of Michigan's fine cooperative crops of the conference, while interesting work. The exhibit shows the respec-

Who Will Be There?

The following are the speakers for the general afternoon and evening meetings during Farmers' Week, January 31 to February 4.

W. G. Keiser, authority on concreteMonday, January 31.
S. S. McClure, famous publisherMonday, January 31.
Charles J. Brand, marketing expertTuesday, February 1.
A. F. Lever, U. S. Farm Loan Board ..Wednesday, February 2.
M. L. Burton, President U. of M.Wednesday, February 2.
A. E. Roberts, rural life leaderWednesday, February 2.
Dean Eugene Davenport, of Illinois.....Wednesday, February 2.
Hon. Lee L. Driver, rural educatorThursday, February 3.
Gov. W. L. Harding, of IowaThursday, February 3.
Miss Alma Binzel, child specialistFriday, February 4.

The following associations will meet at M. A. C. during Farmers' Week:

Michigan Muck Farmers' AssociationFebruary 1-2-3.
Michigan State Farm BureauFebruary 3-4.
Michigan Potato Producers' AssociationFebruary 1-2.
Michigan Crop Improvement AssociationFebruary 2-3.
Michigan Poultry AssociationFebruary 2-3.
Michigan Horticultural SocietyFebruary 1-2.
Agricultural Section Michigan Bankers' Ass'n.....February 1-2.
State Y. M. C. A. SecretariesFebruary 1-2-3.
State Boys' and Girls' Club LeadersFebruary 1-2-3.
Country Life Conference.....February 3.
Michigan Sugar Beet Growers' AssociationFebruary 2.
County Agricultural Agent Conference, January 31, February 1.

and entertaining events are planned to fill out the recreational side of the Michigan Crop Improvement Association, and the Seed Department of the State Farm Bureau in originating, producing, and distributing pure-bred seed.

A. F. Lever, member of the Federal Farm Loan Board, ex-congressman, and father of a great deal of the country's most important agricultural legislation, ranks high among the speakers who will address the general meetings of the week. No one is better qualified than Mr. Lever to discuss agricultural questions of the day, and it is certain that he will bring keenly interesting suggestions to Michigan farmers. Mr. Lever styles himself the father of the county agricultural agent system, and the "grand-daddy" of the farm bureau, both of which titles are generally accorded him.

Dean Eugene Davenport, of Illinois University, leading thinker and writer on agricultural subjects, will talk on "Agriculture in Reconstruction," at one of the general meetings. Dean Davenport fills very few speaking engagements, because of the pressure of his work, and consented to talk at the coming conference only because of the fact that Michigan is his native state and M. A. C. his college Alma Mater.

The big general meetings, at which all Farmers' Week visitors will gather, will be held in the afternoons and evenings. The mornings will be given over to special association meetings and to inspection of exhibits.

Chief among the state associations which will hold annual meetings during the week is the Michigan State Farm Bureau, whose delegates will

tive parts taken by the college, the Michigan Crop Improvement Association, and the Seed Department of the State Farm Bureau in originating, producing, and distributing pure-bred seed. Michigan grain samples which won sweeping victories at the Chicago Show will also be on exhibit, including twenty-eight samples of Rosen Rye with which state growers pulled down practically all the rye prizes at the International. Professor Stone, of Wisconsin University, is to judge the entries in the Crop Improvement Association state show during the week.

A horticultural show in the college armory, prepared by students in the college horticultural division, and a special state potato exhibit in the same building, will be other leading features—along with extensive displays in the fields of animal, poultry and dairy husbandry. Various scientific departments at the college are planning exhibits showing phases of their work which influence markets and economical production.

An innovation this year in the way of Farmers' Week entertainment is to be a mammoth parade of all movable equipment of the agricultural division of the college, together with special features of the week.

Plans for the accommodation and care of visitors during the week are being completed in detail at East Lansing, in anticipation of the biggest crowd in the history of Farmers' Week.

Mention The Michigan Farmer When Writing to Advertisers

CRIMSON VS. COMMON CLOVER.

Kindly advise me as to the value of crimson clover. Will it produce good crops here in Michigan? Could it be sown early in March and allowed to work its way into the ground the same as clover and timothy seeds that are sown on winter grain crops? Would you consider Sudan grass a good crop to cut and put into the silo? How do soy beans compare with fodder corn for feeding milch cows?

Wayne Co.

J. W. S.

Down south, in Maryland, for instance, crimson clover is grown almost universally, like common red clover here in this latitude. It is sown in the fall of the year and the next spring it starts early, grows rapidly and matures a crop. It is not a safe plant to grow in this climate. It winter-kills. I have tried it on my own farm and only a few plants in the whole field survived the winter. I doubt if crimson clover is a better plant in its own latitude than red clover is here, and can see no reason for trying to substitute crimson clover for red.

The seed, of course, can be sown early in the spring before freezing and thawing is over with, just the same as you do our red clover.

Sudan grass belongs to the sorghum family. It is a vigorous grower and will yield an immense amount of fodder in a favorable year, which corresponds in feeding value closely to our timothy. As a rule, live stock do not like it as well as they do our timothy hay. It would not be a very good crop to put in a silo. On account of the hollow stems containing air, there would be excessive fermentation although if it is put in green enough and moisture enough is present, it will make into silage.

Sugar cane makes a very good fodder to feed green or to cure dry like corn, but it is not superior to our corn and its natural home is in the south. I would much prefer to plant corn to feed as a green food or as dry-cured fodder.

Soy beans can scarcely be compared to fodder corn in feeding value because soy beans are very much richer in protein than the corn plant. They are splendid foods to supplement each other in a ration.

If you raise Sudan grass it is best to sow it broadcast and quite thickly so that the stalks will not be too coarse.

Sorghum grown for feed should be planted in drills and cultivated and then either fed green or put into a silo or it can be bound up into bundles and cured as we do corn.

Soy beans can be sown broadcast and harvested for hay much the same as you would clover hay, but you can get larger yields if you sow in drills twenty-eight inches apart and cultivate. If you sow quite thickly in the drill they will not get so coarse but what, sown in this way, they can be made into hay.

C. C. L.

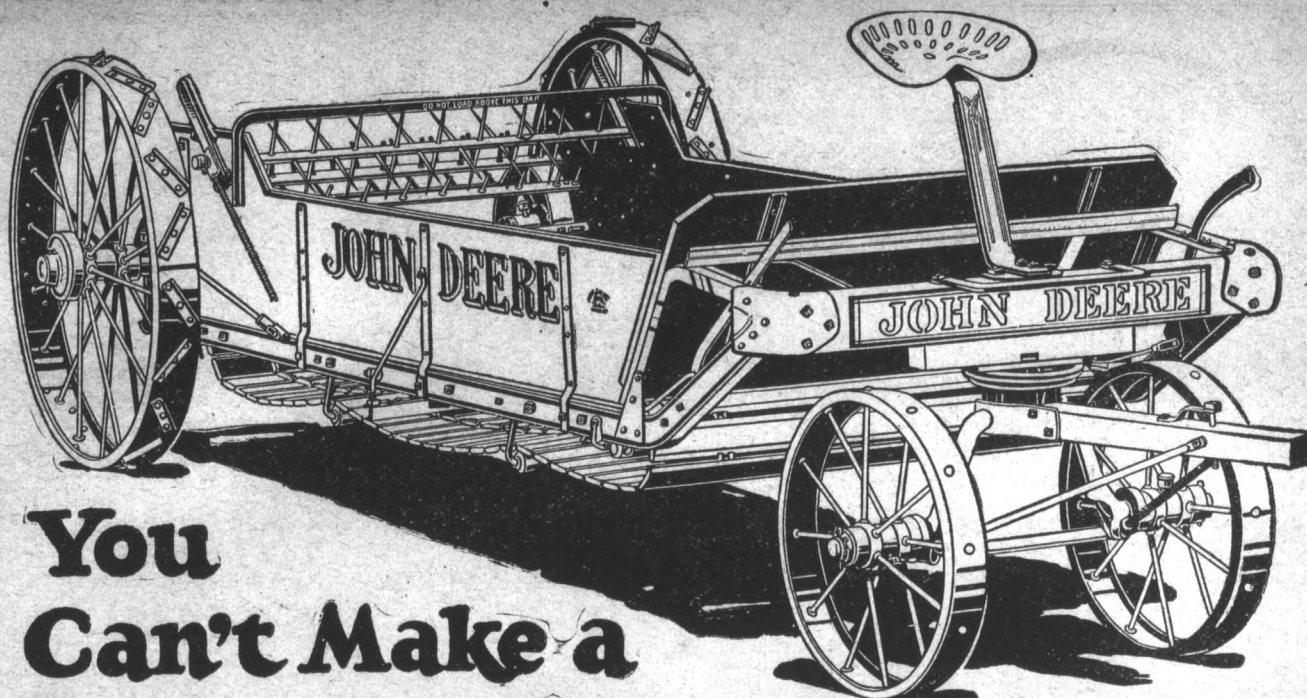
WETTING COAL.

What benefit, if any, is received by wetting down soft coal and keeping it wet for use in house furnace? If there is a benefit or loss resulting from this practice, please say which, and if a benefit is secured in heating the house, tell me how wet the coal should be when used and how much benefit is secured.—Subscriber.

It is not advisable to wet down coal in a very large pile, as the water causes gas which will ignite and cause a slow-burning fire and one that is very hard to stop.

No doubt if the coal is very dry, it would pay to put a few hundred pounds in a pile by itself and pour water on it twice a day. This would make the coal slower burning and in this way cause more heat. The amount of water will be determined by the dryness of the coal, but as a rule, the coal which we buy is not dry enough for this.

H. W. W.



You Can't Make a Better Machinery Investment

IT'S the extra bushels you raise per acre that count most. That's where your big profits are. This economic law applies always whether the selling price of your products is relatively high or low.

To get the extra bushels per acre increased fertility of your soil is necessary above everything else. Here is where the John Deere Spreader fits in. It doubles the value of your most important fertilizer—barnyard manure.



This Big Book and Two Others—Free

"Better Farm Implements" contains 114 pages of valuable information on a full line of labor-saving farm implements. A book you will keep.

"Soil Fertilizers" tells all about barnyard manure, how to preserve it when and how to use it. Written by an agricultural authority.

John Deere Spreader booklet fully illustrates and describes the best implement investment you can make.

To get these books free, drop a line to John Deere, Moline, Ill., and ask for Package S-422.

JOHN DEERE SPREADER

The SPREADER with the BEATER on the Axle

The John Deere Spreader makes manure go twice as far. The same quantity fertilizes more acres more effectively because the manure is evenly distributed—that's the result you want.

With it you have instant control over the amount of manure you put on the land—you can spread heavy or light to meet the needs of the soil and the crop.

Only by using a good spreader can you successfully top-dress pasture lands, hay lands, corn, etc. Proper top-dressing has proved to be a mighty effective way to increase production.

A good spreader saves time—one man with a John Deere can load and spread as much as two men who spread with a fork. You

will utilize every load of manure that is made if you use a spreader, because it takes only about one-half the time to load and spread manure.

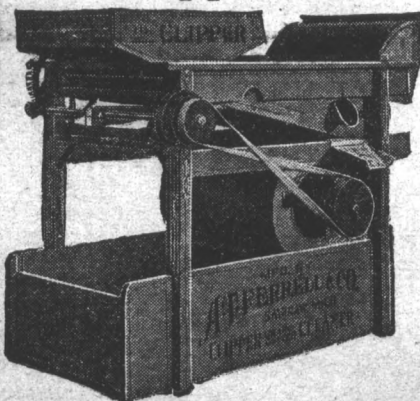
There is no other machine that will pay for itself so quickly as a good spreader. It's a profitable investment at twice its cost.

Mechanically the John Deere is the better spreader. Go to your John Deere dealer and ask to see it. Notice its extreme simplicity—no clutches, no chains, no adjustments to make, only one large beater; a low-down easy-loading box combined with high drive wheels; the revolving rake that insures even distribution; the beater drive with gears enclosed in a dust-proof oil-tight case. The John Deere gives extra years of profitable service.

JOHN DEERE

THE TRADE MARK OF QUALITY MADE FAMOUS BY GOOD IMPLEMENTS

The "Clipper" Grain and Seed Cleaners



The Clipper is different in principle from all other grain and seed cleaners. It has been thoroughly tried out by years of constant use by thousands of the best farmers, the U.S. Department of Agriculture, Agricultural Colleges, Experimental Farms and hundreds of the leading seedsmen, seed corn growers, etc.

The Clipper is the only mill that has the "Vertical Blast", which weighs every seed and kernel, separating the light, shrunken, immature seed from the plump, heavy mature seed, 98% of which will germinate under test. This point alone makes much of the difference between crop success and failure.

No Mill Will Do Good Work Without the Proper Assortment of Screens

We furnish an outfit of 12 screens for cleaning and grading all kinds of seed, seed grain, seed corn, clover, alfalfa, millet, timothy, flax, peas, beans, cow peas, soy beans, etc. And after the most careful study and tests in actual work, we guarantee this screen outfit to be the best that has ever been offered with any mill. There are screens for clover containing buck horn or plantain, timothy seed containing pepper grass, for separating cockle from wheat and many other difficult separations.

Sold Under a 30 Day Guarantee of Satisfaction or Money Refunded In Successful Farming Three Factors are Prominent—the Soil, the Man and Good Seed.

Made in Two Sizes: No. 1-B \$38.50 (Freight prepaid to any point)

No. 2-B \$47.50 (east of the Mississippi River.)

The Clipper Cleaner puts success within your reach by insuring the Good Seed

Write for Catalog and the address of the nearest jobber.

A. T. FERRELL & CO., SAGINAW, W. S., MICH.

GRASS SEEDS



CLOVERS, TIMOTHY

Bell Brand Grass Seeds are the purest, best quality that can be purchased. Specially adapted to your climatic and soil conditions—hardiness bred into them. The development of 42 years' successful seed culture.

FREE Samples and Catalog

Write for Isbell's 1921 Annual—ask for samples of any field seeds you want. Isbell's "direct from grower" prices assure you of big savings on sterling quality seeds— "seeds that grow as their fame grows."

S. M. ISBELL & COMPANY 313 Mechanic St. Jackson, Michigan



Gloves at Cost

BIG UNLOADING SALE One dozen pair 9-ounce strongly made warm and durable Canvas Gloves, heavily lined, cut full, sent prepaid for..... \$1.95 Made for farm work. Retail 25 cents pair. Money refunded if you are not satisfied. Send check or money order. FARMERS GLOVE CO. DEPT. 16, MARION, INDIANA

Certified Petosky Seed Potatoes

Grown in Presque Isle County. For list of growers write E. S. Brower, County Agr'l Agent, Onaway, Mich.

Kalamazoo

"The World's Standard"

TILE AND WOOD SILOS

CONSIDER the name. It means America's standard—positively superior in material and construction. It means Silo satisfaction for your lifetime and generations to come.

The Kalamazoo Silo is a permanent, profitable investment, and whether you choose wood or the more permanent tile, you are sure of extra value for your money. It is one sure source of farm profits in 1921.

Glazed Tile Silos

Made of hollow tile blocks having three dead air spaces—as "permanent as the Pyramids." Substantial reinforcing, frost-proof, moisture-proof, acid-proof, storm-proof, vermin-proof, and will not burn. Continuous door-frame galvanized after assembling. Will not rust. Easy to erect and require no paint or repair expense.

Wood Stave Silos

Shipped complete ready to set up. Easy to erect—no nails or screws—choice of 4 well-seasoned time-defying woods—airtight joints deeply grooved, tongued and splined. Valuable exclusive features include continuous doors, steel door frame, galvanized after assembling.

Order Your Silo Now

Your Kalamazoo shipped now may be put up before the busy days. Don't wait—write today for our special proposition to early buyers. We will save you money.

KALAMAZOO TANK & SILO COMPANY
Dept. 223-S KALAMAZOO, MICHIGAN

Upper Peninsula News

By L. A. Chase

UPPER PENINSULA grain growers have a right to feel gratified. A. L. Bibbins, secretary of the Michigan Crop Improvement Association, writes me that the rye growers of Luce county made a wonderful showing at the International. He states the prize winners as follows: Murphy and Gormely, of Newberry, Luce county; J. B. Thorley, of McMillan; W. B. Stevens, of Newberry, and Henry Brown, of Newberry, all of Luce county. In addition to these Mr. John Dunbar, of Rudyard, Chippewa county, won prizes in wheat, oats and field peas. Mr. Bibbins says it is the purpose of the Michigan Crop Improvement Association greatly to strengthen the work of the association in the upper peninsula, and that he hopes for a very bright future in this territory. Of approximately five hundred members of the association, twenty are in the upper peninsula.

Farm Bureau and Idle Land.

Last spring a committee was appointed by C. A. Bingham, secretary of the Michigan State Farm Bureau, to consider and report upon the problem of our idle land situation in Michigan. This report, signed by P. S. Lovejoy, C. O. Sauer, of the University of Michigan, and J. A. Doelle, of the Upper Peninsula Development Bureau, is now

sion to defer such action until 1922. The problem of our idle lands is urgent, has been amply discussed, and should be tackled at once.

It is expected that the establishment of the new forestry department of the Michigan State Farm Bureau will assist upper peninsula farmers, since it will assist the marketing of fence posts, cedar cuttings, pulp-wood and other forest products. The establishment of this new department is stated to have had its origin in the meeting of county agents and farm bureau officials at Marquette, November 24, 1920, which pointed out that lower Michigan farmers were paying forty-five to fifty-five cents each for fence posts and that they could better be sold direct by producers in the upper peninsula to consumers in the lower state. It is held that upper peninsula farmers can readily furnish approximately one thousand carloads of fence posts in a season, if satisfactory arrangements can be made and it is stated that the promise of the creation of this service in the State Farm Bureau was an inducement to join for many upper Michigan farmers. The new department will also assist in the marketing of maple syrup and sugar—native products of this region—it is declared. The bureau plans the establishment of pools for the marketing of logs, posts, grape and vine stakes, pulp-wood, retort-wood and fuel, to promote shipping in large quantities with resulting economies. Assembling points will be located throughout the state. Advice as to cutting and cruising service for the benefit of members are to be inaugurated, it is announced. The department will also deal with the problem of reforestation, marketing of edible nuts, collection of tree-seed for reforestation and land classification, it is reported. The connection between agriculture and the production of forest products has always been close in this section of the state, where many farmers devote their attention to tillage in the summer months and to work in the woods in the winter season. It was this circumstance that is said to have led Chippewa county farmers, years ago, to go into the business of raising hay on a large scale, since hay production left them free to devote much of their time to forest pursuits as a means of increasing the family cash income.

The Ishpeming Toy Company is now manufacturing twenty-eight kinds of toys, says the Daily Mining Journal, of Marquette, and is shipping its product to all parts of the United States—sixteen thousand dollars worth between August 17, 1920, when the first shipment was made, and November 15.

Road Making.

A Sault Ste. Marie report states that \$125,000 will be spent on trunk-line roads in Chippewa county in 1921, if the supervisors and voters approve the request for this expenditure made by the county board of road commissioners. This expenditure calls for a bond issue and involves a total outlay of \$715,000, the United States, state and county making up the aggregate.

The Gogebic County Board of Supervisors, at its meeting in Bessemer, December 30, appointed a committee to procure a fair grounds site and approved the purchase of thirty-five acres of land at Little Girls' Point, on the Lake Superior shore, for a county park, and took steps to secure a state park and forest reserve for Lake Gogebic.

The twenty-two silver black foxes on the fox farm close to Houghton are said to be thriving, and the manager speaks very approvingly of climatic conditions in the copper country as favorable to this valuable animal.



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in the hands of Mr. Bingham, I understand. I have seen a copy of this report and note among its recommendations, the following: "That the Farm Bureau should 'take official cognizance of the cut-over land situation,' and issue a statement 'setting out the leading facts, and calling upon the responsible officials to develop adequate action at once. The governor and legislature should instruct the proper officials, says the report, to manifest a greater activity in the following lines of work: Immigration, forest fires, land classification. It is recommended that the farm bureau frame a bill or resolution 'calling upon the Public Domain Commission for a real investigation in all its important phases, and for recommendations the adoption of which would create a workable policy and machinery for its administration, this report to be available for the consideration of the public and the legislature in 1922.' Thirdly, it is recommended that the farm bureau should announce its 'determination to follow up the situation so that, if stimulation of existing agencies shall prove inadequate, and if the investigations and reports of the Public Domain Commission shall prove inadequate, that the farm bureau will then cooperate with all the interested organizations and individuals in the consolidation of offices and agencies so as to secure a real policy and machinery for its effective administration at the earliest moment.' It is presumed that this committee will continue in touch with our idle land problem in cooperation with the farm bureau. My own opinion is that the essence of the recommendation is in item three, and that there is no occa-

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MICHIGAN POTATO GROWERS' OPPORTUNITY.

AS has been announced in the columns of this paper, the Michigan Potato Producers' Association will hold its annual meeting at the Michigan Agricultural College, February 1-2. The program of this meeting is as follows:

Room 109, Main Agricultural Building, Tuesday, February 1.

9:00 A. M.—Address, A. M. Smith, President, Lake City, Mich.

Secretary-Treasurer's report, H. C. Moore, East Lansing, Mich.

10:00 A. M.—"Profitable Potato Production," Daniel Dean, Nichols, N. Y.

Wednesday, February 2.

9:00 A. M.—"Diseases Affecting Potatoes in Storage and Transit," Dr. G. H. Coons, East Lansing, Mich.

10:00 A. M.—"Growing Good Seed Potatoes," Hon. Jason Woodman, Paw Paw, Mich.

11:00 A. M.—Business session; election of officers; new business.

At Gymnasium, 6:00 P. M., Wednesday Evening.

Moving pictures of potato growing operations in California and Maine will be run.

We wish to call special attention to the fact that Mr. Daniel Dean, of New York State, will be present and talk to the growers of Michigan at the first day's session of this meeting. It will be necessary for him to leave Tuesday afternoon to attend another meeting, therefore every grower who wishes to hear Mr. Dean should be present at the Tuesday forenoon session. Mr. Dean is one of the largest and most successful potato growers in the state of New York. He is a joint author of a potato book and is a forceful and convincing speaker. He tells his hearers about potato growing from the viewpoint of a real potato grower.

The arrangement of the program with two forenoon sessions was so made to give those in attendance an opportunity to attend the general session of Farmers' Week which will be held in the afternoons and evenings. Good speakers will be provided for all sessions.—C. W. WAID.

ILLEGAL INTEREST RATES

THE attention of the State Farm Bureau has been called to instances of "discounts" or "bonuses" which were in excess of the legal seven per cent rate of interest. A recent decision of the Michigan Supreme Court in a case involving a loan of \$300 for ninety days, renewed several times, with interest at seven per cent after maturity and on which the borrower paid six dollars on the original note and six dollars at the time of every renewal as "interest" or "discount" which amounted to eight per cent interest on the principal of the note, or an amount in excess of what the state law describes as legal interest, is in point.

The twenty-page decision of the court states that the loan (irrespective of the number of times of renewal) continued as one transaction until paid, without reference to the number of balances struck, and new notes given, until fully paid the borrower might insist upon having past usurious payments legally applied as payments against the principal of the loan.

The court stated that a note executed as a renewal of a note providing for usurious interest is itself tainted with usury; that one who voluntarily pays usurious interest may not maintain a suit to recover it while one against whom a usurious contract is sought to be enforced may avail himself of the state law on the subject as a defence. The statute is available as a shield but not as a sword.



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IN ORDER to place International Harvester tractors within the reach of every farmer, arrangements have been made whereby the Titan 10-20 may be purchased on time-payment terms.

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The Titan 10-20 has led the three-plow tractor field for the last five years. Farmers have bought over \$70,000,000 worth of Titans. See the International dealer and join those who are making the most of this opportunity and buying Titans now.

And you may have a year in which to complete payments for the machine.

You can buy the Titan 10-20 tractor today at absolutely the lowest price that will be quoted before May 1, 1921, because a guarantee goes with every Titan 10-20 purchased at the present price between now and May 1, by which, if the International Harvester Company of America reduces its price on or before May 1, 1921, you will be refunded the amount of such reduction.

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LIVE STOCK MEETING.

(Continued from page 90).

er cooperative association working alone cannot handle this proposition, but declared if handled on a state-wide basis by experts it would be very unlikely to fail.

George W. Dickinson, manager of the Michigan State Fair, outlined ways in which he hoped the fair might better cooperate with the live stock men in the future. Plans for a huge stock pavilion, to be available for sales during the year as well as at fair time, were described by him.

Resolutions as Adopted.

The report of the resolutions committee, accepted in full, is as follows: Your committee on resolutions beg leave to offer the following report:

We, the Improved Live Stock Breeders' and Feeders of the state of Michigan in executive session assembled, endorse the recently organized Farm Bureau and commend its action in matters pertaining to the live stock industry of the state. We would urge the State and County Farm Bureaus to undertake active live stock programs leading to the elimination of the scrub sire, the eradication of tuberculosis, and the general upbuilding of the industry in this state, particularly along lines of cooperative distributing and marketing.

We endorse the very efficient work of the animal industry commission and the federal authorities in charge of tuberculosis eradication in Michigan and urge upon the present state legislature the necessity for liberal appropriations for carrying on this work with the greatest possible despatch during the next two years. We feel that the budget as offered is inadequate to meet the needs of the situation and that it should be increased materially, as this is a matter of great economic importance, not only to the live stock breeders, but to the commonwealth in general. The low percentage of tubercular cattle in Michigan as compared to many of the other states is a strong argument in favor of striking a decisive blow at once and eradicating the disease while the loss will be at a minimum.

We commend the action of the commission in requiring that all cattle exhibited at fairs be tuberculin-tested and urge that this regulation be rigidly enforced.

We urge the passage of a suitable law requiring that all cattle offered for public sale be subjected to the tuberculin test, and further, that payment by the state of indemnity for tubercular cattle be made only when such cattle have shown a reaction to the tuberculin test when applied by a veterinarian approved by the commission of animal industry and provided that such reacting animal has been branded with the letter T on the left jaw.

We do heartily approve of the present dog law and feel that it should make the sheep industry more inviting in the future.

Whereas, from the information given us at this meeting that tuberculosis among cattle is a serious and costly disease menacing human health as well as the health of cattle, therefore be it resolved that the association declares itself favorable to more financial aid from the federal government in its eradication, requesting our senators and representatives in congress to aid in the acquiring of such financial assistance.

Whereas, that the importation of vegetable oil into the United States and the importation of the raw material from which such oils are made has become a very serious menace to the swine industry of the country in replacing large quantities of lard, and also detrimental to the dairy interests by replacing large quantities of dairy products—therefore be it resolved that this association declares itself unalterably opposed to the free admission into this country of such oils and raw material for their manufacture and that copies of this resolution be sent to our United States Senators and to each and every congressman from Michigan, requesting them to use the best efforts in support of a measure or measures that will place an adequate and reasonable import duty on such oils and raw materials.

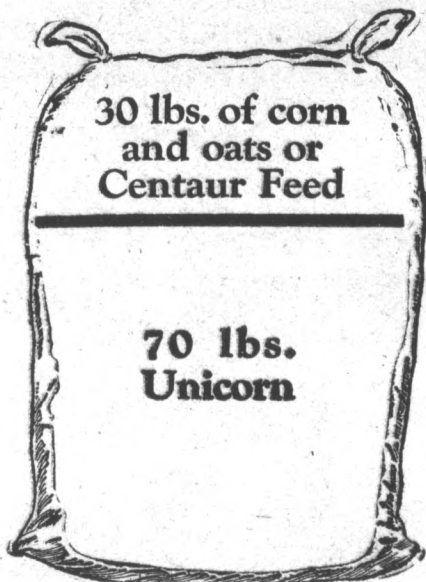
Resolved further, that our senators and representatives in congress be requested to support or introduce measures to place an adequate tariff on all dairy products and on all meat and meat products to be imported into the United States.

Resolved, that this association declares itself in favor of legislative support.

(Continued on page 107).

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A seventy-thirty mixture is about right for most cows. It produces \$4 worth of milk for each \$1 worth of feed.

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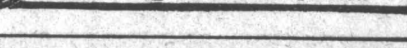
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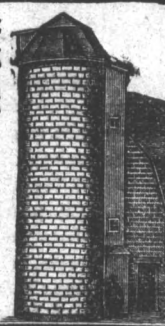
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WORLD EVENTS IN PICTURES



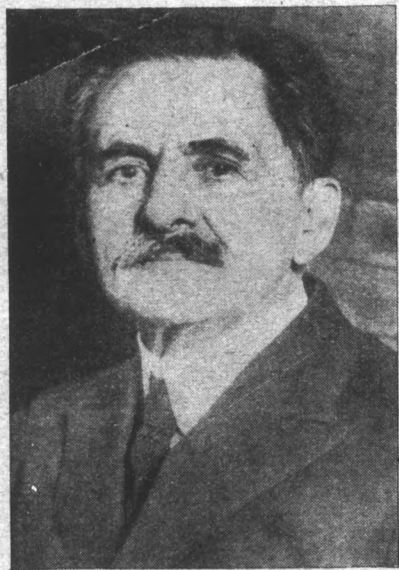
Photograph of King Constantine of Greece, with members of his family taken at Lucerne, Switzerland, just before the royal party left for Athens.



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Discovers star 260,000,000 miles across.



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An electrically heated suit used by persons who may be exposed to extremely low temperatures.



Sons of Chinese president attend American college.

THE VOICE OF THE PACK

By EDISON MARSHALL

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Dan puffed at his pipe, and his eyes looked curiously bright through the film of smoke. "I'm not interested in hearing them," he said.

"It might pay you," Cranston went on. "One of 'em is that one man's word is good as another's in a court—and it wouldn't do you any good to run down and tell tales. A man can light his pipe on the mountain side without the courts being interested. The second thing is—just that I don't think you'd find it a healthy thing to do."

"I suppose, then, that is a threat?"

"It ain't just a threat," Cranston laughed harshly—a single, grim syllable that was the most terrible sound he had yet uttered. "It's a fact. Just try it, Failing. Just make one little step in that direction. You couldn't hide behind the girl's skirts then. Why, you city sissy, I'd break you to pieces in my hands!"

Few men can make a threat without a muscular accompaniment. Its very utterance releases pent-up emotions, part of which can only pour forth in muscular expression. And anger is a primitive thing, going down to the most mysterious depths of a man's nature. As Cranston spoke, his lips curled, his dark fingers clenched on his thick palm, and he half leaned forward.

Dan knocked out his pipe on the log. It was the only sound in that whole mountain realm; all the lesser sounds were stilled. The two men stood face to face, Dan tranquil, Cranston shaken by passion.

"I give you," said Dan with entire coolness, "an opportunity to take that back. Just about four seconds."

He stood very straight as he spoke, and his eyes did not waver in the least. It would not be the truth to say that his heart was not leaping like a wild thing in his breast. A dark mist was spreading like madness over his brain; but yet he was striving to keep his thoughts clear. It was hard to do, under insult. But he knew that only by craft, by cool thinking and planning could he even hope to stand against the brawny Cranston. He kept a remorseless control over his voice and face. Stealthily, without seeming to do so, he was setting his muscles for a spring.

The only answer to his words was a laugh—a roaring laugh of scorn from Cranston's dark lips. In his laughter, his intent, catlike vigilance relaxed. Dan saw a chance; feeble though it was, it was the only chance he had. And his long body leaped like a serpent through the air.

Physical superior though he was

Cranston would have repelled the attack with his rifle if he had had a chance. His blood was already at murder heat—a point always quickly reached in Cranston—and the dark, hot fumes in his brain were simply nothing more nor less than the most poisonous, bitter hatred. No other word exists. If his class of degenerate mountain men had no other accomplishment, they could hate. All their lives they practiced the emotion: hatred of their neighbors, hatred of law, hatred of civilization in all its forms. Besides, this kind of hillman habitually fought his duels with rifles. Hands were not deadly enough.

But Dan was past his guard before he had time to raise his gun. The whole attack was one of the most astounding surprises of Cranston's life. Dan's body struck his, his fists flailed, and to protect himself, Cranston was obliged to drop the rifle. They staggered, as if in some weird dance, on the trail; and their arms clasped in a clinch.

For a long instant they stood straining, seemingly motionless. Cranston's powerful body had stood up well under the shock of Dan's leap. It was a hand-to-hand battle now. The rifle had slid down the hillside, to be caught in a clump of brush twenty feet below. Dan called on every ounce of his strength, because he knew what mercy he might expect if Cranston mastered him. The battles of the mountains were battles to the death.

They flung back and forth, wrenching shoulders, lashing fists, teeth and feet and fingers. There were no Marquis of Queensbury rules in this battle. Again and again Dan sent home his blows; but they all seemed ineffective. By now, Cranston had completely overcome the moment's advantage the other had obtained by the power of his leap. He hurled Dan from the clinch and lashed at him with hard fists.

It is a very common thing to hear of a silent fight. But it is really a more rare occurrence than most people believe. It is true that serpents will often fight in the strangest, most eerie silence; but human beings are not serpents. They partake more of the qualities of the meat-eaters—the wolves and the felines. After the first instant, the noise of the fight aroused the whole hillside. The sound of blows was in itself notable; and besides, both of the men were howling the primordial cries of hatred and vengeance.

For two long minutes Dan fought with the strength of desperation, summing at last all that mysterious re-

serve force with which all men are born. But he was playing a losing game. The malady with which he had suffered had taken too much of his vigor. Even as he struggled, it seemed to him that the vista about him, the dark pines, the colored leaves of the perennial shrubbery, the yellow path were all obscured in a strange, white mist. A great wind roared in his ears—and his heart was evidently about to shiver to pieces.

But still he fought on, not daring to yield. He could no longer parry Cranston's blows. The latter's arms went around him in one of those deadly holds that wrestlers know; and Dan struggled in vain to free himself. Cranston's face itself seemed hideous, and unreal in the mist that was creeping over him. He did not recognize the curious thumping sound of Cranston's fists on his flesh. And Cranston had hurled him off his feet.

Nothing mattered further. He had fought the best he could. This cruel beast could pounce on him at will and hammer away his life. But still he struggled. Except for the constant play of his muscles, his almost unconscious effort to free himself that kept one of Cranston's arms busy holding him down, that fight on the mountain might have come to a sudden end. Human bodies can stand a terrific punishment; but Dan's was weakened from the ravages of his disease. Besides, Cranston would soon have both hands and both feet free for the work, and when these four terrible weapons are used at once, the issue—soon or late—can never be in doubt.

But even now, consciousness still lingered. Dan could hear his enemy's curses—and far up the trail, he heard another, stranger sound. It was that second of acute sensibilities that usually immediately precedes unconsciousness, and he heard it very plainly. It sounded like some one running.

And then he dimly knew that Cranston was climbing from his body. Voices were speaking—quick, commanding voices just over him. Above Cranston's savage curses, another voice rang clear, and to Dan's ears, glorious beyond all human utterance.

He opened his tortured eyes. The mists lifted from in front of them, and the whole drama was revealed. It had not been sudden mercy that had driven Cranston from his body, just when his victim's falling unconsciousness would have put him completely in his power. Rather it was something black and ominous that even now was pointed squarely at Cranston's breast.

None too soon, a ranger of the hill

had heard the sounds of the struggle, and had left the trysting place at the spring to come to Dan's aid. It was Snowbird, very pale but wholly self-sufficient and determined and intent. Her pistol was quite cocked and ready.

CHAPTER VII.

DAN FAILING was really not badly hurt. The quick, lashing blows had not done more than severely bruise the flesh of his face, and the mists of unconsciousness that had been falling over him were more nearly the result of his own tremendous physical exertion. Now these mists were rising. "Go—go away," the girl was commanding. "I think you've killed him."

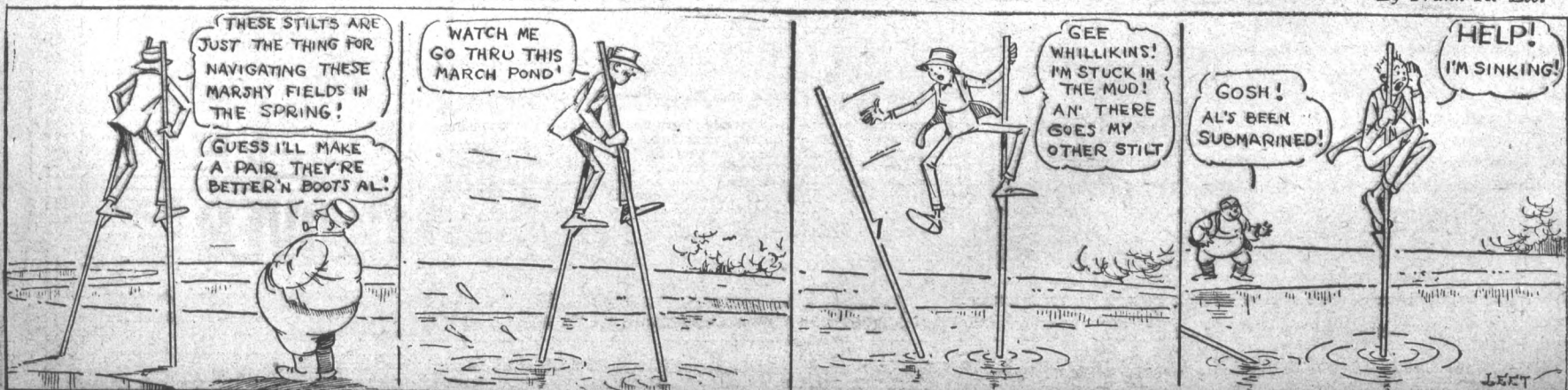
Dan opened his eyes to find her kneeling close beside him, but still covering Cranston with her pistol. Her hand was resting on his bruised cheek. He couldn't have believed that a human face could be as white, while life still remained, as hers was then. All the lovely tints that had been such a delight to him, the play of soft reds and browns, had faded as an afterglow fades on the snow.

Dan's glance moved with hers to Cranston. He was standing easily at a distance of a dozen feet; and except for the faintest tremble all over his body, a muscular reaction from the violence of his passion, he had entirely regained his self-composure. This was quite characteristic of the mountain men. They share with the beasts a passion of living that is wholly unknown on the plains; but yet they have a certain quality of imperturbability known nowhere else. Nor is it limited to the native-born mountaineers. No man who intimately knows a member of that curious, keen-eyed little army of naturalists and big-game hunters who go to the north woods every fall, as regularly and seemingly as inexorably as the waterfowl go in spring, can doubt this fact. They seem to have acquired from the silence and the snows an impregnation of that eternal calm and imperturbability that is the wilderness itself. Cranston wasn't in the least afraid. Fear is usually a matter of uncertainty, and he knew exactly where he stood.

It is extremely doubtful if a plainsman would have possessed this knowledge. But a plainsman has not the knowledge of life itself that the mountaineer has, simply because he does not see it in the raw. And he has not half the intimate knowledge of death, an absolute requisite of self-composure. The mountaineer knows life in its simple phases with little tradition or convention to blur the vision. Death is a

AL ACRES—From His Elevated Position Al Sends Out an SOS.

—By Frank R. Leet



very intimate acquaintance that may be met in any snowdrift, on any rocky trail; and these conditions are very deadly to any delusions that he has in regard to himself. He acquires an ability to see just where he stands, and of course that means self-possession. This quality had something to do with the remarkable record that the mountain men, such as that magnificent warrior from Tennessee, made in the late war.

Cranston knew exactly what Snowbird would do. Although of a higher order, she was a mountain creature, even as himself. She meant exactly what she said. If he hadn't climbed from Dan's prone body, she would have shot quickly and very straight. If he tried to attack either of them now, her finger would press back before he could blink an eye, and she wouldn't weep any hysterical tears over his dead body. If he kept his distance, she wouldn't shoot at all. He meant to keep his distance. But he did know that he could insult her without danger to himself. And by now his lips had acquired their old curl of scorn.

"I'll go, Snowbird," he said. "I'll leave you with your sissy. But I guess you saw what I did to him—in two minutes."

"I saw. But you must remember he's sick. Now go."

"If he's sick, let him stay in bed—and have a wet nurse. Maybe you can be that."

The lids drooped halfway over her gray eyes, and the slim finger curled more tightly about the trigger. "Oh, I wish I could shoot you, Bert," she said. She didn't whisper it, or hiss it, or hurl it, or do any of the things most people are supposed to do in moments of violent emotion. She simply said it, and her meaning was all the clearer.

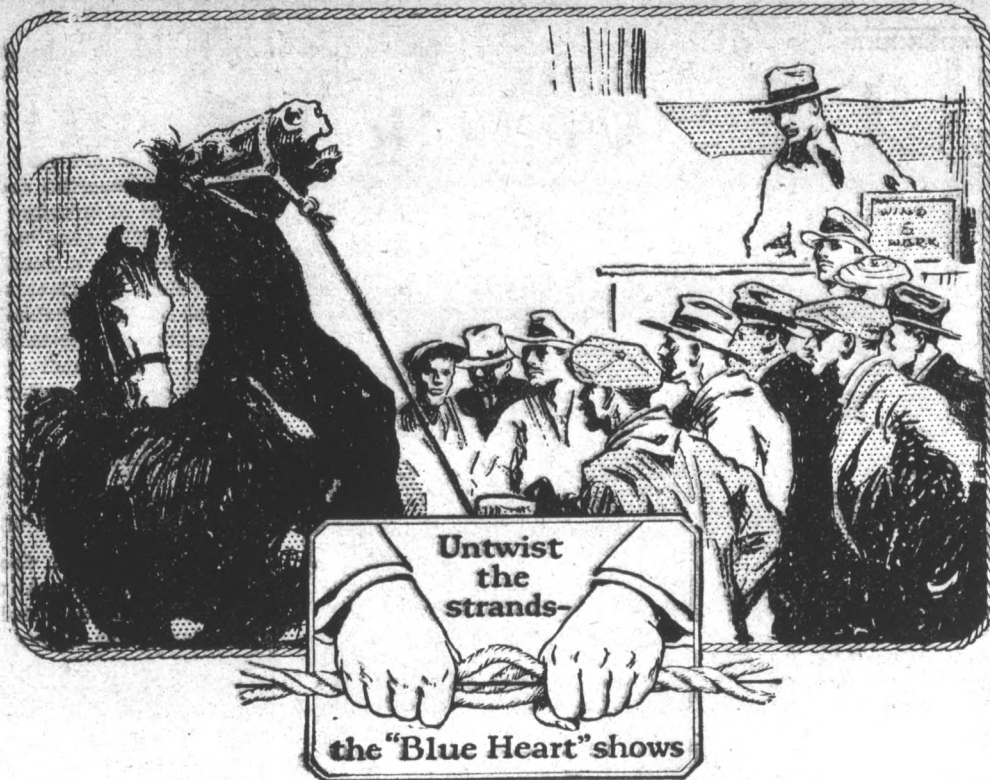
"But you can't. And I'll pound that milksop of yours to a jelly every time I see him. I'd think, Snowbird, that you'd want a man."

He started up the trail; and then she did a strange thing. "He's more of a man than you are, right now, Bert," she told him. "He'll prove it some day." Then her arm went about Dan's neck and lifted his head upon her breast; and in Cranston's plain sight, she bent and kissed him, softly, on the lips.

Cranston's answer was an oath. It dripped from his lips, more poisonous, more malicious than the venom of a snake. His late calm, treasured so much, dropped from him in an instant. His features seemed to tighten, the dark lips drew away from his teeth. No words could have made him such an effective answer as this little action of hers. And as he turned up the trail, he called down to her a name—that most dreadful epithet that foul tongues have always used to women held in greatest scorn.

Dan struggled in her arms. The kiss on his lips, the instant before, had not called him out of his half-consciousness. It had scarcely seemed real, rather just an incident in a blissful dream. But the word called down the trail shot out clear and vivid from the silence, just as a physician's face will often leap from the darkness after the anesthesia. The whole scene in an instant became incredibly vivid—the dark figure on the trail, the girl's white face above him, narrow eyed and drawn-lipped, and the dark pines, silent and sad, overhead. Something infinitely warm and tender was holding him back against a holy place that throbbed and gave him life and strength; but he knew that this word had to be answered. And only actions, not other words, could be called its payment. All the voices of his body called to him to lie still, but the voices of the spirit, those higher, nobler promptings from which no man, to the glory of the breed from which he sprung, can ever quite escape, were

(Continued on page 101).



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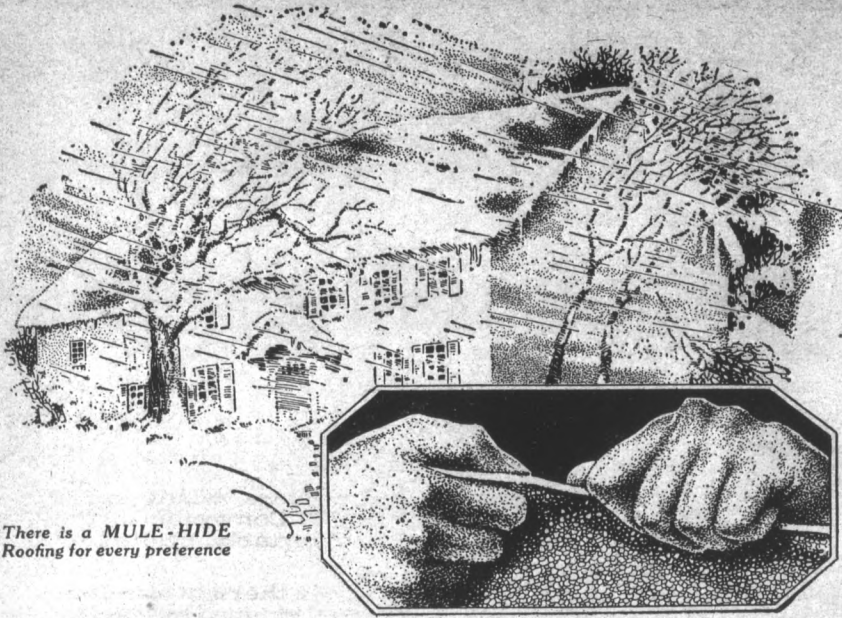
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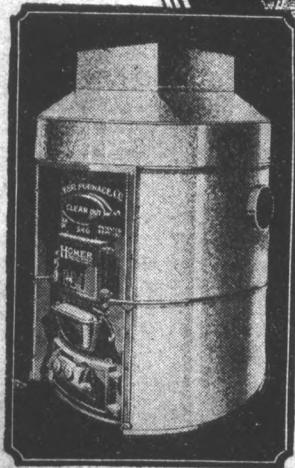
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The Socialized Citizen

Our Weekly Sermon—By N. A. McCune

BOTH the old and the new testaments describe the kind of man who is of greatest use to his fellow men. The good citizen is the man we are hearing a good deal about, of late. "Real Americanism" is heard on the lips of public school teachers. The good citizen is the man who has a religious background. Long ago, one student of human affairs put it so: Who shall ascend into the hill of the Lord, And who shall stand in his holy place? He that hath clean hands and a pure heart,

Who hath not lifted up his soul unto falsehood, And hath not sworn deceitfully.

The man who keeps up that pace is none too common even in our so-called Christian times. This is a picture of absolute honesty, with God and man.

Now, our Lord goes farther than the prophets and teachers of the Old Testament. "Ye have heard it said, man, eye for an eye and a tooth for a tooth, but I say unto you—" First, then, Christ transfers the emphasis from acting to thinking. This is revolutionary. Courts try men for what they actually do. The law knows nothing of thoughts unless they are expressed. You may think all the criminal libel you please, but as long as it is not put into words, no legal action can be brought against you. But Christ probes into the thoughts. "As a man thinketh in his heart, so is he." And He is absolutely right. Out of the heart are the issues of life. The boy who reads evil books, looks at salacious pictures, is feeding his mind on garbage, and garbage always gives off a stench. Did not the chief of police of one of our great cities recently issue an order that there were to be no more scenes of crime shown in the movie houses of that city? One passage of the Old Testament says we are to love the neighbor. Another, to love the foreigner. Another, to love your servant. But Christ commands us to love the enemy. Immorality has always been, among civilized races, a grave sin, frequently punishable by death. But Christ said that to cherish the thought of it was equally bad. In short, the Lord of Life says to the man who would be of service to his generation, he must think right.

BUT the socialized citizen must give heed to another fact. He must value the person. People have worth. One person, one tiny child, has worth.

A year ago, a little girl lay dying of double pneumonia, in a Michigan city. When the city health officer found her she was unconscious, and could not talk nor swallow. Her parents belonged to some sect that would not permit them to call a doctor. The health officer had no legal authority to do what he did, but he summoned the chief of police, and an ambulance, and took the child to the hospital. After four weeks she was sitting up. The city, society, valued that little girl's life, apparently more than her parents did. From the standpoint of medicine, we are more and more appreciating the worth of humans. But on the commercial side we have not advanced so far. Take modern industry. The number of casualties each year is colossal. More men and women are injured annually than were injured in the Union Army at Gettysburg. The great argument against slavery was, that it appraised men only by their bodies. A slave was examined in the same way that one examines a horse. And that is the inhuman side of war. A man's life counts for little. A minor engagement, in which fifty men are killed, is spoken of as "the attacking party suffered slight losses." Yet when it is learned from the "Copenhagen Society for the

Study of War," that the Great War cost the unthinkable number of thirty-five million deaths, that European nations lost nine per cent of their populations, it is apparent what war does to human life. Men are snuffed out, like gnats. In addition to this, vast numbers of the living are left eyeless, limbless, nerveless. The greatest crusade of the present generation will be against war, and all its costs. The twentieth century must learn to appraise life as Christ does.

IT is surprising how humanity will respond, once the opening is made. The time was, when the great museums of London were not open to the public. The theory was, that the ignorant and common folk would deface the statuary, or mar the pictures. But one Sunday the picture galleries and museums were opened to all comers, and a more quiet and orderly stream of people was never seen, than the stream of visitors who that day passed through those treasure-houses. It was said for centuries that the black man had no brains, no soul, and the like. But when Livingstone died, in Africa, a thousand miles from the coast, those faithful blacks embalmed the body, and carried it to the coast, through hostile villages, across rivers and over mountains. Such lives are worthy of consideration. The value that the Son of God placed on human life, is not the standard yet. But it must come to be the standard. The socialized citizen is the one who looks upon his fellow man as of infinite worth. He will not try to hire girls for his store at a wage on which they cannot live decently, he will not compel his factory operatives to work with unprotected machinery, that may any moment hurl one to death, or leave him disfigured for life.

In a little spot near the wall of Mukden, in China, there is a grave. It is the grave of a young English doctor who went as a missionary, in 1910. One day it was noised about that the pneumonic plague was coming from the north. The death rate was one hundred per cent. No man, woman or child attacked recovered. When China heard this, she stood speechless with terror. Then Arthur Jackson left his work, went to the railroad station in Mukden, and erected a barrier between the plague and the helpless masses of Chinese. Day after day he worked, clad in oilskin boots, a white robe, with a bag over his head, and breathing through a sponge. He visited every incoming train, separated the diseased and unsuspected, until the fatal tide was stemmed. Then he discovered in his own spittle the traces of blood that told him the end was at hand, and in a few hours the powerful, Christlike life came to a close. They buried him by night by the city wall. The Chinese Viceroy came to the funeral and made the principal speech. Doctor Jackson was a socialized citizen.

Sunshine Hollow Items

By Rube Rubicon

John Munday and Stella Friday were married last Saturday by Rev. Sunday. They will leave Tuesday for Eaton Rapids and be back Wednesday or Thursday.

Melvin Hogan says that it's fortunate that we can still get quite a parcel of education after leaving school. Melvin went to a university but says it isn't his fault because his folks sent him there. But Melvin got right out after graduation and learned a business from the basement to the attic. He wasn't afraid of getting his hands chapped. So he makes a good living in spite of the folks that said he was wasting time buying book learning.

THE VOICE OF THE PACK.

(Continued from page 99).

stronger yet. He tugged upward, straining. But he didn't even have the strength to break the hold that the soft arm had about his neck.

"Oh, if I could only pull the trigger!" she was crying. "If I could only kill him—"

"Let me," he pleaded. "Give me the pistol. I'll kill him—"

And he would. There was no flinching in the gray eyes that looked up to her. She leaned forward, as if to put the weapon in his hands, but at once drew it back. And then a single sob caught at her throat. An instant later, they heard Cranston's laughter as he vanished around the turn of the trail.

For long minutes the two of them were still. The girl still held the man's head upon her breast. The pistol had had fallen in the pine needles, and her nervous hands plucked strangely at the leaves of a mountain flower. To Dan's eyes, there was something trance-like, a hint of paralysis and insensibility about her posture. He had never seen her eyes like this. The light that he had always beheld in them had vanished. Their utter darkness startled him.

He sat up straight, and her arm that had been about his neck fell at her side. He took her hand firmly in his, and their eyes met.

"We must go home, Snowbird," he told her simply. "I'm not so badly hurt but that I can make it."

She nodded; but otherwise scarcely seemed to hear. Her eyes still flowed with darkness. And then, before his own eyes, their dark pupils began to contract. The hand he held filled and throbbed with life, and the fingers closed around his. She leaned toward him.

"Listen, Dan," she said quickly. "You heard—didn't you—the last thing that he said?"

"I couldn't help but hear, Snowbird."

Her other hand sought for his. "Then if you heard—payment must be made. You see what I mean, Dan. Maybe you can't see, knowing the girls that live on the plains. You were the cause of his saying it, and you must answer—"

It seemed to Dan that some stern code of the hills, unwritten except in the hearts of their children, inexorable as night, was speaking through her lips. This was no personal thing. In some dim, half-understood way, it went back to the basic code of life.

"People must fight their own fights, up here," she told him. "The laws of the courts that the plains' people can appeal to are all too far away. There's no one that can do it, except you. Not my father. My father can't fight your battles here, if your honor is going to stand. It's up to you, Dan. You can't pretend that you didn't hear him. Such as you are, weak and sick to be beaten to a pulp in two minutes, you alone will have to make him answer for it. I came to your aid—and now you must come to mine."

(Continued next week).

A FINANCIAL DIAGNOSIS.

In a confidential little talk to a group of medical students an eminent physician took up the extremely important matter of correct diagnosis of the maximum fee.

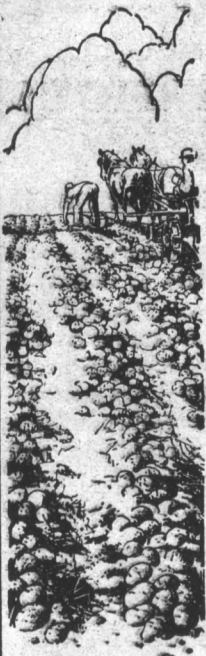
"The best rewards," he said, "come of course, to the established specialist. For instance, I charge \$25 a call at the residence, \$10 for an office consultation and \$5 for a telephone consultation."

There was an appreciative and envious silence, and then a voice from the back of the theatre, slightly thickened, spoke:

"Doc," it asked, "how much do you charge a fellow for passing you on the street?"

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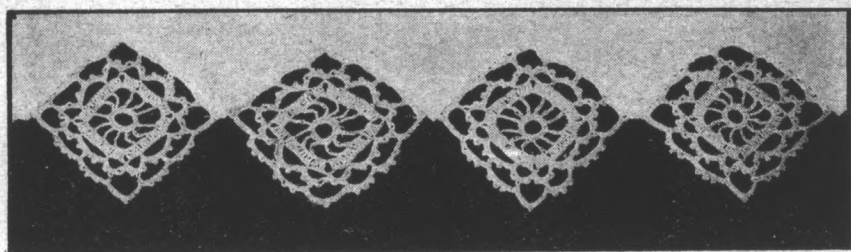
New Pillow Slip Decorations

[By Helen Combes

MANY housekeepers make a practice of inventorying their linen at this time of the year and take advantage of the January white sales to replenish their stocks of bed linen. In these sales it is often possible to purchase at a reduced price a superior quality of cotton which, when finished with embroidery or crochet makes handsome pillow slips.

As a change from the straight edge on the pillow cases or day slips, the needleworker who is quick at picking

Ch 9, s c into middle p of 7 ch, ch 11, s c into middle p of next 7 ch (this is the corner) * ch 9 s c into p, repeat from *, ch 11, s c into p, repeat all around medallion, join. Fill each 9 s c with 3 s c, p of 3 ch, repeat from * twice and end with 3 s c; and fill each corner (11 ch) with 7 s c, p, 7 s c, join. This completes the medallion. For a 45-inch pillow slip, 14 medallions will be needed. They are set on the raw edge of the material, which is then cut



up new ideas will like the two medallion designs here shown. Both are crocheted in squares, but one is set on in diamond shape and the other in squares. Materials required, No. 40 crochet cotton and a No. 12 hook.

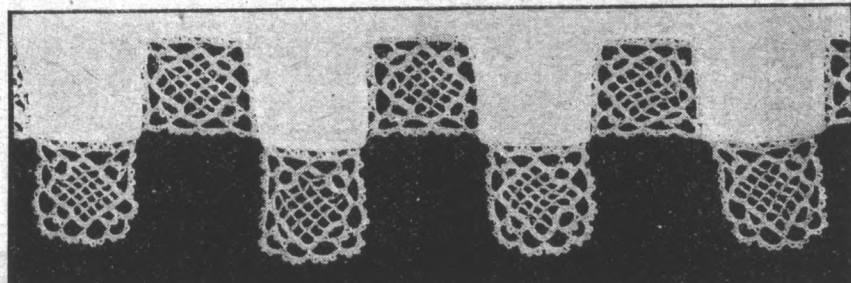
Diamond Design.

Ch 10, join in ring, ch 1, 24 s c in ring, join, ch 8, 1 d tr (thread over twice), into 2nd s c, *, ch 3, 1 d tr into 4th s c, ch 5, 1 d tr into 6th s c, repeat from star around ring, ending

into points leaving a margin sufficient to turn a very narrow hem.

Square Edge.

Ch 20, turn, 1 d c into 5th ch *, ch 2, d c into 8th ch, repeat from * to end of ch, making 5 m in all, ch 5, turn. Make four more rows of m, ch 1 turn, 4 s c in corner m, and in next 2 m, 2 s c in 4th m, turn, ch 7, sl st back into s c in center of 2nd m from corner, turn, *, 2 s c, p of 3 ch into 7 ch, repeat twice from *, end with 2 s c. Repeat



with 5 ch joined into 5th of 8 ch at beginning of row.

Ch 2, *, 3 d c into 1st hole, 1 d c into d tr, repeat from * once, 4 dc into hole of 5 ch, 3 ch, 4 d c into same hole, 1 d c into d tr, repeat from first * all around, join.

*, ch 10, s c into 5th d c from corner, ch 7, s c into corner, ch 7, s c into 5th d c from corner, repeat from * all around, join, * 4 s c into 10 ch, p of 3 ch, repeat from * twice, end with 4 s c, * 2 s c into 7 ch, p of 3 ch, repeat from * twice, end with 2 s c, repeat all around join, turn, sl st back into middle p of 10 ch, turn.

all around square, making 8 s c in corner m, join at corner, * 7 ch, s c into 1st p in 7 ch, ch 8, s c into 3rd p, ch 7, s c into corner, repeat from * all around, join.

* 2 s c, p of 3 ch into 7 ch, repeat from * twice, end with 2 s c, * 3 s c, p of 3 ch, into 8 ch, repeat from * twice, end with 3 s c, repeat 2 s c p, into each 7 ch, and 3 s c p, into 8 ch all the way around, join. A 45-inch pillow slip requires 24 medallions. Apply as shown in picture, sewing the lower row of medallions on before cutting out the squares.

Variety in Apple Cookery

By Imo Sandhammer

AN apple a day keeps the doctor away," is an old saying, but we will have to search far and wide to find an article of food which can be so well disguised and yet so delicious. This year we have the apple with us at a reasonable price, in fact, many apples have gone to waste for want of a market. So let us not have them go to waste in our cellars just because the family may tire of plain apple pie and apple sauce. A little spice and flavoring and a new recipe or two may sharpen appetites this winter when we

have this fruit. Here are a few new ways of utilizing the apple:

Scalloped Apples.

Line a baking dish with buttered crumbs and a sprinkle of brown sugar. Put in a layer of sliced apples, then one of crumbs and continue until the dish is filled, leaving buttered crumbs and sugar on top. Add a little water or fruit juice and bake.

Apple and Raisin Pie.

Try a combination of apples and raisins in pie. The apples add to the

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flavor of the apple so that you will think it a "near mincemeat" pie.

Candied Apples.

Sweet apples are best, but any firm variety may be used. Cut in eighths and core, blanch by dipping in cold water, then drain and cook for five minutes in a hot syrup made of one cupful of sugar, one cupful of corn syrup and one cupful of water.

Apple Whip.

For a dessert that is different, bake six apples and press through a sieve. Sweeten to taste and fold in the beaten whites of two eggs. Serve with whipped cream.

Apple Relish.

This is especially appetizing served with pork or roast duck or goose. Six pounds of quartered apples, six pounds of sugar, two pounds of raisins, and two oranges. Put the fruit through the chopper, using the finest knife. Add the sugar, one pint of vinegar, one teaspoonful of cinnamon, and one-half teaspoonful of cloves. Cook slowly until thick. Seal while hot.

Stuffed Baked Apples.

Prepare whole apples for baking by removing the core from the stem end. Scoop out a small amount of apple and add to it raisins and chopped nuts. Refill and bake, serving with sauce or cream.

Apple Tapioca.

Cook tapioca as usual. When done have ready a quantity of pared and quartered apples and place in a baking dish a layer of apples and a layer of tapioca. Bake about one-half hour and serve either hot or cold.

Bacon with Apple Rings.

For breakfast, slice cored apples in rings about one-half inch thick and fry after the bacon. Serve these rings on the platter surrounding the bacon.

Apple Salad.

Select medium-sized bright-colored tart apples. Carefully remove the core from the stem end of the apple. With a spoon scoop out the apple sufficient to make a good-sized cavity, leaving a shell of apple about one-half inch in thickness. Fill with a mixture of celery, apple, nut and marshmallow moistened with boiled salad dressing.

Cereal and Apple Pudding.

Take oatmeal left from breakfast, cut several apples into small pieces, add a few raisins and a little sugar, and bake in a buttered dish one-half hour. This may be served with raisin sauce. This dessert is especially wholesome for children, in fact, it will serve as the main dish for their lunch or supper.

When making apple sauce, the quality is improved by pressing it through a sieve. It will also add to the flavor if brown sugar is used for sweetening instead of granulated sugar. Old-fashioned apple dumplings are usually welcomed by the children as a change from apple pie.

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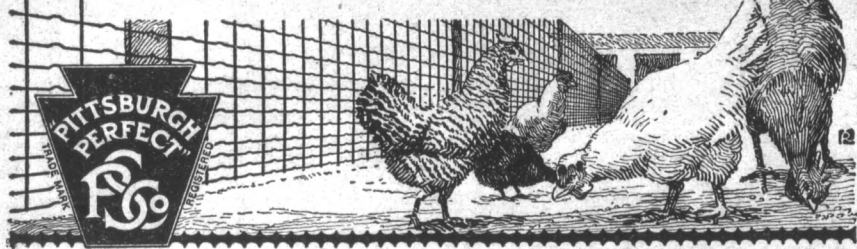
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Our Boys' and Girls' Page

Things to do When it Storms

By R. G. Kirby

ON rainy days the time may seem to go very slow on the farm but often the boys and girls free from outside duties can use the time for much pleasure and profit. It is a great help in school and in after years to know how to write. The finest kind of practice can be obtained from writing friendship letters to the school friend who has moved away to the city, or the farm boy playmate who has moved to another county. Learning to express

the reading and obtain much of value from good books. Those who skim books may soon become sick of reading and then the great rainy-day pleasure soon becomes lacking in interest.

Rainy days are great for planning. All boys have their dreams and plans for the future. Some like to think of being farmers. Others wish to be mechanics or professional men. Some have no definite ideas but just like to dream. Reading helps to bring new thoughts. It often enables a boy to plan his life work more definitely. A boy who dislikes mechanics and mathematics will not wish to be a civil engineer. The boy who does like live stock and things that grow may develop into the kind of farmer that likes farming.

When a boy finds out the line of work he likes best he can make rainy days useful by learning a few things about his work. Books about farming may seem unattractive after a hard day's work in the field. On the rainy day they may be read with interest because the mind will be clear and not dulled by long hours of physical effort which make sleep so welcome at an early hour.

Boys or girls gain little by trying to force themselves to read books about things they thoroughly dislike. Too many folks go through school and college forcing themselves to specialize in things that some friend has advised them to take. But if they do not study because the subject is attractive they may not be successful in their line of work. From this error come many of the so-called square pegs in round holes.

The boy or girl who can use the rainy day in studying something that they like may make that day more profitable than any day of the week. It saves a lot of wasted time when boys can learn at an early age the things that will help them to steer a straight path for something that is worth more than the effort it costs.

It is a lucky boy that has a work-room and tools so the rainy day that is not a school day can be spent with profit. Rabbit hutches, brood coops,

Attends International

MISS LOUISE DEVERS, county club champion in Wayne in 1919 in canning, has received some reward for her tireless efforts which doubtless many another girl will envy, for with Miss Elda Robb, state club leader for



girls of the Michigan Agricultural College, she enjoyed a trip to the International Live Stock Show at Chicago. Her parents, who live at Inkster, gave her this trip because of the splendid work she did last year when she canned four hundred quarts of fruits and vegetables.

ideas in friendship letters is a very useful training whether the boy or girl expects to live on a farm or take up business life in a city. And the letter is enjoyed both by the writer and the friend who receives it. And the answer may help to cheer up some other rainy day a few weeks distant.

Get out the old checker-board and try to beat everybody in the family. Napoleon never had any more fun planning his campaigns than a boy can have through working out the moves which give him three of father's checker men for one of his own. The writer believes that playing checkers teaches us to think and it is a useful game to train boys to concentrate.

A little more difficult is the game of chess. But boys and girls of high school age can learn to enjoy playing chess. It is a great rainy day game when time hangs heavy. It requires so much thought that all other things must be forgotten if the game is successfully played.

Never waste time wondering what on earth you are going to do when there are so many good games to play and friends to play them with. Play the games hard when you are at it. Play to win by honest moves and hard thought and the games will not be tiresome, but real fun.

Reading is the great indoor sport with lots of farm boys and girls. It pays to read carefully things that are worth reading, rather than to skim everything carelessly. The reader who goes slow and thinks of the things that are being read is quite apt to enjoy

A Literary Prodigy



At the age of thirteen Miss Helen Vogel Lincoln has written a novel, several short stories, some excellent verse and is now seeking other worlds to conquer. Besides she is a splendid swimmer, an enthusiastic horseback rider and a lover of out-door sports.

sleds, tables, dog kennels, checker boards, "an everything," can be turned out from scrap lumber and packing boxes. A farm boy does not need a fancy set of mechanical toys in order to have real fun. The writer knows that he always had the most fun when he made it for himself and not when the fun had to be manufactured and served up in a picture show.

Boys who like athletics will enjoy reading athletic stories. They will like to read and learn how to take care of their strength and develop their muscles so they can excel in base ball, football, and all other games of strength in which farm boys do have good luck on the best of our high school and college teams. A boy who is physically fit for such contests should strive to enter. It is helpful in making a boy a leader and fitting him for his future work in life, no matter what it may be. And it is not always the big and brawny boy who is the star on the team. The light and speedy fellow with lots of nerve may be the big winner. So the rainy day can be made a big day. The next time it rains and outdoor work is impossible, don't lose any time but learn a lot of good points about the things in which you are most interested.

RIDDING FLOCKS OF THE "CON."

(Continued from page 91).

which poultry do not have access. If the flock is confined to small yards, the ground may be spaded up or plowed.

Where poultry have been kept under these conditions, and where all of these recommendations have been fully complied with, it may be safe to restock in a week or two with hens from a flock known to be free from the disease. But on the average farm where the flock has free range, and where the fowls may run under corn cribs, barns, straw stack bottoms and sheds, we have a far different problem. It is not known how long the germ causing tuberculosis may live in the dirt and droppings in these dark places. Unless these places can be thoroughly cleaned and disinfected the same as the coop, or unless the flock can be kept from them it may not be safe to restock for at least six months or a year.

Just before restocking, however, it would be a good plan to whitewash the interior of the coop with whitewash freshly prepared from quicklime. The new flock should be provided with feeding and drinking receptacles constructed so that the hens cannot get their feet or droppings in them. The coop should be cleaned and disinfected frequently. Some advocate the practice of keeping over each year only the pullets because it is usually the old hens which first show evidences of the disease.

A well-constructed poultry house provided with plenty of light and ventilation, such as the one illustrated in the December 11, 1920, issue of the Michigan Farmer, will do much toward increasing the resistance of a flock against a disease like tuberculosis. Such houses can easily be kept clean and dry. Some recommend the tuberculin test for picking out the diseased birds but it is practical only in small flocks of high priced birds or in the purchasing of a single bird from an unknown flock. Any veterinarian can administer the test.

The Upper Peninsula Poultry Association held its annual meeting at Mowhawk, Houghton county, its usual place of meeting, on December 30 to January 1. This is a well-established, regularly recurring event and attracts exhibits of poultry throughout the district and from beyond its limits. The entries for this show are stated to have been the largest in the eight years of the history of the association.—CHASE.

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For Team or Any Tractor

SUPERIOR Grain Drills insure the utmost yield from every foot of ground. For heavy or light soils—for work on hill-side or level ground Superior gives the most uniform distribution, the greatest economy of time, labor and seed, and you are assured a perfect stand of grain at harvest time.

SUPERIOR Tractor Drills have an adjustable hitch for use with any tractor and a special power lift that enables the operator to raise or lower the discs while in motion without leaving seat of tractor. Your dealer will be glad to show you the many special features. It is the right grain drill for your farm.

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Hubers Reliable Hatchery, East High St., Fostoria, Ohio.

Poultry Book Latest and best yet; 144 pages, 215 beautiful pictures, hatchings, rearing, feeding and disease information. Describes busy Poultry Farm handling 50 pure-bred varieties and BABY CHICKS. Tells how to choose fowls, eggs, incubators, sprouters. Mailed for 10 cents. **Berry's Poultry Farm, Box 138, Clarinda, Iowa**

FOR SALE Candeo Mammoth Thubator. Beef Scraps, \$5.00 per 100 lbs. **TYRONE POULTRY FARM, Fenton, Mich.**

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Chicks

White Leg. 15¢
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Send Your Order to the

City Limits Hatchery and Poultry Yard,

R. 5, Holland, Mich.

for your S. C. White Leghorns, S. C. Brown Leghorns, English White Leghorns, S. C. Anconas, and S. C. Barred Rocks.

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Post Paid. SAVE MONEY, by sending for our catalog. \$5.00 per hundred up. 500,000 chicks for 1921 and the quality will be of the best. Bred for Egg Production and the Show Room. Catalogue Free.

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CRESCENT EGG COMPANY, Allegan, Mich.

DAY OLD CHICKS and hatching eggs from select heavy producing stock. Delivery guaranteed. Wh. Leghorns, Bar. Rocks, W. Wyand., S. C. Reds, B. Orp. Cat. free. **COHEN POULTRY FARMS, 9-19 Goshen, Ind.**

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\$16.00 to \$27.50 per 300. Hatching eggs, \$2.00 to \$15.00 per setting and \$9.00 to \$15.00 per 100, from 25 varieties of pure bred, farm raised fowls: Chickens, Geese, Ducks, Turkeys and Guineas. Price list and circular free. Plenty of nice breeding stock. Book now for early spring delivery. **WILMINGTON HATCHERY & POULTRY CO., Wilmington, Ohio.**

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CHICKS, We ship thousands each season. Send for prices and testimonials. **FREEMONT HATCHERY, Box 12, Freemont, Mich.**

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BABY CHICKS Hatching eggs, Barred Rocks, Normans strain, trap-nested, bred-to-lay, expertly tested for many generations, large illustrated catalogue 25c, stamps for circular. **Norman Poultry Plant, Chatsworth, Ill.**

Booking Orders for Hatching Eggs Single Comb, with the Win and Lay bred in them. Eggs \$2.50 and \$5.00 per 15. Order from ad. **PARADISE POULTRY YARDS, Box 575, Halfway, Mich.**

Barred Rocks egg contest winners, eggs from strain with records to 200 a year. \$2.00 per setting prepaid by P. P. Circular free. **FRED ASTLING, Constantine, Mich.**

Additional Poultry Ads. on Page 109

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Probably
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Blue Bell, Supreme Champion at the Smithfield Show 1919, and the Birmingham Show 1920, is a daughter of Edgar of Dalmeny.

The Junior Champion Bull, Junior Champion Female, Champion Calf Herd and First Prize Junior Heifer Calf, Michigan State Fair, 1920, were also the get of Edgar of Dalmeny.

A very choice lot of young bulls—sired by Edgar of Dalmeny are, at this time, offered for sale.

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For Sale

Woodcote Trojan-Ericas

We are offering ten cows bred to either
IMP. ECHO OF HAVESUN, or
IMP. EDGAR OF DALMENY.

Write for our 1921 BULL SALE LIST

Woodcote Stock Farm, Ionia, Mich.

The 2nd Annual

Mich. Aberdeen Angus Breeder's Ass'n Sale will be held at M. A. O. East Lansing, on Jan. 14, 1920. This space is contributed by Geo. Hathaway & Son, Ovid, Mich. A few females and an aged bull to spare at private sale.

For Sale Having decided to sell part of my herd of pure bred Aberdeen Angus cattle, consisting of males and females of different ages.

ANDREW P. EITEL, Vermontville, Mich.

Reg. Aberdeen Angus bulls and heifers from 6 to 18 mos. old of the very best of breeding, also Berkshire Swine, boars ready for service and pigs both sex singles, pairs or trios, will accept Liberty Bonds.

RUSSELL BROTHERS, Merrill, Mich.

REGISTERED Aberdeen-Angus. Ten heifers, six bulls from eight to fourteen months. Best of breeding, the growthy kind that make good. Reasonable. Inquire

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Bulls Priced Right For quick sale, two, two year olds, one calf, Registered Angus.

CEPHAS BUTTLES, Lewiston, Mich.

Village Farms Guernseys for sale. High grade milking cows, heifers and heifer calves. Also registered bulls from 1 month to serviceable age whose dams are on test and making good records. Write or come and see the herd. Rex Griffin Herdsman, O.J. Winter, Prop. Sebawaing, Mich.

Registered Guernsey Bull

coming serviceable age, carrying 5 May Rose crosses. Sire won five 1st prize and one grand championship. Dam's A.R. record 10170 lb. milk 510.2 lbs. fat. Should head a high class herd. Priced right.

PAUL LOVE, St. Austell Farms, Jackson, Mich.

Registered Guernseys 9 mos. old bull calf, nearly old enough for light service, extra well grown. Right in every way \$100. Heifer Calf 8 mo. old no relation. \$200.

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

Guernseys. Federal Inspected. Only 1 serviceable age bull left. Born Nov. 1919. Dam's and sire's dams A.R. records over 400 lbs. b. f. Class 6. Traces 3 times to Imp. Mashie Sequel. Will ship on approval. Three bull calves under 7 mos. G.W. & H.G. Ray, Albion, Mich.

Guernsey Cow Five years old. Due this month \$200. Also fine heifer calf dropped in Nov. 1920. \$100. First check takes them. Be quick.

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GUERNSEYS—REGISTERED BULL CALVES Containing blood of world champions.

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Guernsey Bulls of May Rose Breeding. Their dams have records 420 to 650 lbs. fat also a few cows and heifers are offered.

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For Sale Six registered Guernsey bulls May Rose breeding ready for service. Cheap if taken soon.

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GUERNSEY BULL CALVES whose sire's dam made 19,460.20 milk, 909.05 fat. Their mother's sire's dam made 15,109.10 milk, 778.80 fat.

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A Good Note accepted in payment of finely bred registered Holstein bull calves. Quality of the best, and at prices within reach of all. Write, GEO. D. CLARKE, Vassar, Mich.

The Traverse Herd

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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Holsteins of Quality

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A yearling son of Maplecrest De Kol Hengerveld. The sire having three sisters, each with records of over 1200 pounds of butter in a year, two of them former world champions. Calf's dam sister to three each with records of over 1200 pounds by Pontiac Aagie Korndyke. This combination of breeding has produced more 1000 to 1200 pound cows than any other of the breed. If progeny counts, where can you equal it? Price \$150.00 for quick sale.

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You can't afford to use a poor one.
We have good ones of all ages listed at reasonable prices.

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Two Grandsons of King Of The Pontiacs Ready for Service

From 31.18 and 28.39 lb. dams

Sire:—King of the Pontiacs Segis No. 169124, who is by King of the Pontiacs and from Hilledale Segis (a 33 lb. daughter of King Segis) "Nat. Ced."
Dams:—Topsy Clothilde Robes No. 172806 made 31.18 lbs. butter and 623.8 lb. milk in 7 days.
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These bulls are nicely marked and Good Individuals. Herd under federal supervision. Come and see them. For pedigree and information write Mr. Fred Alt, Mgr.

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Holstein Friesian heifer and bull calves, purebred Holstein registered and high-grade. Price \$20 up. Splendid individuals and breeding. Write us your requirements. Browncroft Farms, McGraw, N. Y.

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on Nov. 1st will move their Herd of Pure Blood Holsteins to their new home, 1 1/2 miles south of Rochester, Mich. and for the next 30 days we will sell what bull calves we have cheap as we will be unable to get our buildings complete before winter. So get busy if you want a son of Flint Maplecrest Boy at your own price.

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Buy a "milk" Bull of Quality from the Breeders of the world's only cow to produce 800 lbs. milk in 7 days, having an 800 lb. daughter.

Our advertised bulls are selling fast. Here are two good ones:

No. 1. King Vale Colantha De Kol, No. 307701. Born Oct. 11, 1919.

A "TOP NOTCH" individual, backed by fifteen dams who average 30.73 lbs. butter in 7 days. Price \$175.00 f. o. b. Howell.

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His 4 nearest dams average 25.39 lbs. butter in 7 days. Dams, a 22 lb. cow with daughter who produced 38.744 lbs. milk and 1543 lbs. butter in two consecutive years. Price \$125.00 f. o. b. Howell.

No. 1 Bull about one quarter white. No. 2 Bull about half and half.

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Our herds under U. S. Supervision.

For Sale Holstein-Friesians

A bull calf ready for service. Combines show type and production.

Herd sire, Model King Segis Glista, whose grand-dam is Glista Ernestine, the only cow of the breed that has six times made better than 30 lbs. butter.

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Reg. Holstein-Friesian cows and heifers, priced to sell. Good individuals. Choice breeding. Some freshest soon.

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Thirty Head High Class Holsteins

The entire herd, all raised on the farm.

Daughters of Johanna Korndyke DeKol, Pietertje Hengerveld Mercena DeKol, Beauty Walker Pietertje Prince 2d, and The King of Butter Kings as well as a number of grand daughters of King Segis Pontiac.

All tuberculin tested and sold with a 60 to 90 day retest privilege. All females of breeding age guaranteed breeders.

One year's time at 6% interest to responsible parties. Bring your bank reference. For catalog address

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Choice individuals; shipped to you c. o. d. express paid and guaranteed right or your money refunded. All stock registered in buyer's name.

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all ages sired by Callaway Edd 1918 world's grand champ. boar and C. C. Schoolmaster 1919 world's grand champion also Wonder Big Type and Giant Buster. Write your wants, all stock shipped on approval.

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Offers the best selection of young bulls from 8 to 12 months we ever raised; out of dams up to 29.76 for aged cows and over 26 lbs. for 2 yr. olds. Yearly records up to 24000 lbs. milk and 1000 lbs. butter. Sired by our Senior Herd Sire, Maplecrest Application Pontiac, whose dam made 35 lbs. butter in 7 days and 1344 lbs. butter and 23421 lbs. milk in a year, or by Dutchland Konigen Sir Rag Apple, our Junior Herd sire, whose dam is a 30 lb. 10 yr. old maternal sister of Dutchland Colantha Denver who made 36 lbs. in 7 days and 1315 lbs. butter and 25431 lbs. milk in 1 year. Several carry the blood of both these sires.

They are extra well grown, straight and right. One of these at the head of your herd is bound to increase production. Send for pedigrees and prices.

R. Bruce McPherson, Howell, Mich.

Federal Accredited Herd Bull For Sale Old enough for service. Dams records, 7 da. milk 487.30, butter 20.85, 305 da. milk 16,115.3, butter 648. She has 2 A. R. O. daughters. His sire a 24 lb. grandson of Colantha Johanna Lad, and three heifer calves 7 mos. old not related to bull. All for \$500. Vernon Clough, Parma, Mich.

Reg. Holstein bull calf born Nov. 1920 extra choice breeding and individuality, \$60 reg. and del. J. R. Hicks, St. Johns, Mich.

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Cows with calves at side, open or bred heifers of popular breeding for sale. Also bulls not related.

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Herefords For Sale Fairfax and Disturber blood, 150 Reg. head in herds, \$35 reduction on all sires, choice females for sale. Write me your needs. Earl C. McCarty, Bad Axe, Mich.

The Wildwood Farm Jersey Cattle, Majesty strain. Herd on State accredited list. B. C. M. testing constantly done. Bulls for sale. ALVIN BALDEN, Phone 143-5, Capac, Mich.

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Lillie Farmstead Jerseys Bull calves from R. of M. cows. COLON C. LILLIE, Coopersville, Mich.

Jersey Bulls from R. of M. dams \$75 to \$150 each. NOTTEN FARM, Grass Lake, Mich.

Jersey bulls for sale: From Marguerite's Premier a grandson of Pogue 90th and R. of M. dams. SMITH & PARKER, R. 4, Howell, Mich.

Meridale Interested Owl No. 111311 heads my herd bull calves from this great sire and out of R. of M. dams for sale. Leon E. Laws, R. 6, Allegan, Mich.

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that will put weight on your dairy calves—the difference will soon pay for the bull. Now selling good Scotch and Scotch-topped yearlings, reasonably priced. We guarantee every animal to be a breeder. Federal Test. One hour from Toledo, Ohio, N. Y. C. R. R.

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Milking Shorthorns, bulls and heifers 5 mo. to 1 year old for sale at reduced prices to make room for younger stock. E. H. KURTZ, Mason, Mich.

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See our cattle get our prices and breeding before buying. Both bulls and females for sale.

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Kirklevington Lad, by Imp. Hartford Welfare. In service, bulls for sale.

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Imp. Lorne, Imp. Newton champion and Sterling Supreme in Service. We offer for quick sale: Five Scotch Bulls, best of breeding. Three whites at \$1000 each. One roan at \$500, one red at \$400. No females for sale. Public sale Chicago Oct. 28th.

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Breeders of
American Polled Shorthorn Cattle

For Sale two splendid bulls now ready for service, and two younger ones that will be ready for light service Jan. 15th. We also are offering at this time a few bred cows and heifers. Herd headed by Victor Sultan and Sultan's Gift. Prices very reasonable, write your wants. Geo. E. Burdick, Mgr., Coldwater, Mich.

Milking Shorthorns Breeding the best bulls from high producing cows.

O. M. YORK, Millington, Mich.

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Choice young Shorthorn cows and heifers for sale at all times, bred or open, or a carload, also a few young bulls strong in Sultan Blood. Write

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MEADOW Hills Shorthorns. Herd headed by Silver King, full brother of Lavender Sultan Purdue University's great sire. For sale females of all ages, a few young bulls. Geo. D. Foster, Doster, Mich.

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FRANK KEBLER, R. 1, Grand Lodge, Mich.

Reg. Red Polled bull calves, from 3 mos. to 1 year old, sired by Famous Charming, 75% same blood as Charming 1919 International Grand Champion. Our herd State and Federal tested. Westbrook Bros., Ionia, Mich.

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Registered Berkshires, Glits, and Sows bred for April May and June farrow. A yearling Boar and a few younger Spring pigs. Chase Stock Farm, Marlette, Mich.

Registered Berkshires for sale. Two young boars, ready for service, two young gilts, a sow, and younger ones of either sex. Let me know your wants. JOHN YOUNG, R. 2, Breckenridge, Mich.

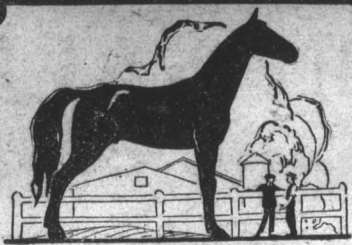
Bred Berkshire gilts for April farrow \$50. One Shorthorn bull \$125. One Hampshire ram lamb \$35. Berkshire pigs \$10 & \$15. M. G. Mosher & Sons, Osseo, Mich.

Brookwater Duroc Jerseys

BOARS—Ready for Service

Bred Sows and Glits

Write us for Prices and Pedigrees
Mail orders a Specialty. Satisfaction guaranteed.
BROOKWATER FARM, Ann Arbor, Mich.
H. W. Mumford, Owner J. B. Andrews, Mgr.



SOUND

YOU can never tell—he may be SOUND today but lame and unfit tomorrow. A bottle of **SAVE-THE-HORSE** saves you money and worry—saves the horse pain and energy. For over 27 years **SAVE-THE-HORSE** has the record of curing when everything else fails. Cures while horse works.

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Is Guaranteed by signed **MONEY-BACK** contract to cure Ringbone, Thorpin, SPAVIN or Shoulder, Knee, Ankle, Hoof or Tendon Diseases. Write today for **FREE** **Save-The-Horse** BOOK—96 pages on how to locate, understand and treat all forms of lameness; also sample of **GUARANTEE** and expert veterinary advice—all **FREE**.

TROY CHEMICAL CO.

320 State Street Binghamton, N. Y.

Druggists everywhere sell **SAVE-THE-HORSE**, with Signed Guarantee, or we send it direct by Parcel Post Prepaid.

DON'T CUT OUT A Shoe Boil, Capped Hock or Bursitis

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TRADE MARK REG. U. S. PAT. OFF.

will reduce them and leave no blemishes. Stops lameness promptly. Does not blister or remove the hair, and horse can be worked. \$2.50 a bottle delivered. Book 6 R free.

ABSORBINE, JR., for mankind, the antiseptic liniment for Boils, Bruises, Sores, Swellings, Varicose Veins, Ailays Pain and Inflammation. Price \$1.25 a bottle at druggists or delivered. Will tell you more if you write.

W. F. YOUNG, INC., 258 Temple St., Springfield, Mass.

95 American
Upward
CREAM
SEPARATOR

On trial. New, well made, easy running, easily cleaned, perfect skimming separator. Skims warm or cold milk. Different from picture which shows larger capacity machines. Our guarantee protects you. Get our plan of easy

MONTHLY PAYMENTS
and handsome free catalog. Whether dairy is large or small, write today. Western orders from Western points.

AMERICAN SEPARATOR CO.
Box 6061 Cambridge, N. Y.

HOGS

Duroc Jersey Sow Sale

Friday of Farmers' Week

February 4th

East Lansing, Mich.

This is a consignment sale put on by the **Michigan Duroc Breeders' Association**

Each consignor guarantees his entry to be a good representative of his herd. Auctioneer or Mr. Kelly of The Michigan Farmer will handle mail bids.



Spring pigs by Walt's Orion, First Sr. Yearling Detroit, Jackson, Gd. Rapids and Saginaw 1919
Phillips Bros, Riga, Mich.

DUROC JERSEY SWINE

for sale 2 yr. old herd boars, yearling boars and boar pigs, also bred sows and gilts. Write for pedigrees and prices. Come and see them.

TROUS UNDERHILL & SON, Salem, Mich.

Special Offer For December we will take orders for 1920 spring gilts bred for Mar. and Apr. farrow 1921 at \$50 each excellent breeding. Gilts to be shipped when safe in pig. Write or come and make your own selection at once.

RUSH BROS., Romeo, Mich.

Duroc sows and gilts bred to Walt's King 29499 who has sired more 1st and 2nd prize pigs at the State Fair in last 2 years than any other Duroc boar. Everyone will be a money maker for the buyer. Cat. and price list.

NEWTON BARNHART, St. Johns, Mich.

DUROCS spring boars. A few gilts bred for Sept. farrow at bargain prices.

W. C. TAYLOR, Van, Mich.

Duroc Boars ready for service. Sired King number 169259 son of the \$10,000.00 Champion Jacks Orion King 2nd all large type and heavy bone out of good sows.

THE JENNINGS FARMS, Bailey, Mich.

Duroc Jerseys Boars of the large heavy boned type at reasonable prices. Write or better come and see.

F. J. DRODT, Monroe, Mich.

LIVE STOCK MEETING.

(Continued from page 96).

port for the educational institutions of Michigan and more especially of the Michigan Agricultural College in which we are all interested because of its usefulness to the agricultural interests of Michigan and to us as representatives of that great industry.

Be it resolved, that this association tender a vote of thanks to the management of the Michigan Agricultural College for its kindly interest in our meeting and the splendid entertainment that has made these meetings enjoyable and profitable.

The following resolution from a committee appointed by the various cattle breeders' associations was also adopted:

Whereas, the continued use of scrub and grade sires is a detriment to the live stock industry and, whereas, many pure-bred sires that should be utilized for breeding purposes are annually slaughtered.

Be it resolved that this association favor the passage of an act by the legislature that will be a practical movement toward the restriction of the use of scrub sires with the ultimate elimination of such from a state.

And be it further resolved, that the president appoint a standing committee to promote such legislation.

The committee was constituted as follows:

Chairman, Frank Wheatlake, Big Rapids, Michigan; C. P. Reed, Howell, representing Holstein breeders; W. W. Crapo, Swartz Creek, Hereford breeders; S. H. Pangborn, Bad Axe, Short-horn breeders; Alvin Balden, Capac, Jersey breeders; H. W. Wigman, Lansing, Guernsey breeders; N. C. Heribson, Birmingham, Red-Polled breeders, and L. S. Marshall, Leslie, Brown Swiss breeders.

Officers Elected for 1921.

H. H. Halladay, of Clinton, state live stock commissioner, was elected president for the ensuing year. Other officers are: Vice-president, Jacob De Geus, Alicia; secretary, Geo. A. Brown, East Lansing; assistant secretary, W. E. J. Edwards, East Lansing; treasurer, James Eardley, Grand Rapids; executive committee, J. Lesister, Orion; Earl G. McCarty, Bad Axe; Alexander Minty, Ionia; W. E. Livingston, Parma; H. W. Norton, East Lansing.

The following officers were elected by separate breeding associations:

Michigan Jersey Cattle Club.—President, Alvin Bolden, Capac; vice-president, Arthur Edison, Grand Rapids; secretary-treasurer, Alfred Henrickson, Shelby; chairman of publicity committee, Dr. G. A. Waterman, Ann Arbor; managers of M. J. C. C. year book, C. S. Bassett, Kalamazoo, and John Barron, Fennville; membership and finance, C. E. Mortenson, East Lansing; sales service manager, Alfred Henrickson, Shelby; executive committee, Alvin Bolden, Alfred Henrickson, James Eardley, Grand Rapids; Samuel O'Dell, Lansing; Frank Thompson, Owosso.

Michigan Guernsey Cattle Club.—President, F. H. Ormston, St. Johns; vice-president, H. R. Curtis, Lyons; secretary-treasurer, H. G. Ray, Albion.

Michigan Sheep Breeders' and Feeders' Association.—President, J. N. McBride, Lansing; vice-president, Amos Welch, Ionia; secretary-treasurer, Donald Williams, East Lansing.

Michigan Duroc Jersey Breeders' Association.—President, O. F. Foster; committee, Eugene Inwood, W. C. Taylor, Newton Barnhart.

Michigan Berkshire Breeders' Association.—President, to be elected later; secretary, J. W. Clapp, Northville; directors, W. H. Every, Manchester; F. C. Foster, Manchester; M. F. Millard, Detroit; B. Parker, Niles; C. Mosher, Hillsdale.

Michigan Swine Breeders' Association.—President, Newton Barnhart, St. Johns; secretary-treasurer, P. P. Pope, Mt. Pleasant.

Michigan Hereford Breeders' Association.—President, Jay Harwood, of Ionia; first vice-president, Tony B. Fox, Marion; second vice-president, E. E. Cole, Hudson; third vice-president, M. N. Richmond, Smyrna; secretary-treasurer, Earl C. McCarty, Bad Axe; Hereford hike leader, T. F. B. Sotham; chairman sales committee, A. T. Smith, Eckford.

Michigan Holstein-Friesian Association.—President, Dudley E. Waters, of Grand Rapids; vice-president, M. W. Wentworth, Battle Creek; secretary, H. W. Norton, Jr., East Lansing; treasurer, S. H. Munsell, Howell; other members of executive committee, H. E. Rising, Woodman; H. D. Boardman, Jackson; G. L. Spillane, Flint.

Michigan Holstein Breeders—Attention!

If you are looking for a herd sire the following list will interest you. All sired by **SEGIS KORNDYKE DE NIJLANDER**, a 32 lb. son of a twice 30 lb. 5 year old Michigan Prize winner on production, and her dam a 29.43 lb. cow with 731.5 milk in 7 days and almost 3000 lbs. milk in 30 days. Sire of the sire of these calves is a grandson of Pontiac De Nijlander 35 lb. thrice Michigan Champion:

No. 1 Born Feb. 23, 1920. Dam has 28.12 lbs butter 602.60 milk in 7 days; 113.10 butter and 2511.60 milk in 30 days at 4 yrs. of age. She increased her 3 yr. old record 10 lbs. and we look for 35 lbs. next time. Her dam is a 32 lb. cow and her granddam a 29.43 lb. cow. Light in color, a real bull.

No. 2 Born June 7, 1920. Dam a 30 lb. Jr. 4 yr. old. Granddaughter of King Segis, a Michigan Prize Winner on production. Butter 30.79, milk 653.1—30 days, butter 124.21, milk 2779.9. Here is a prize, nicely marked and from a wonderful dam and sire.

No. 3 Born April 15, 1920. Dam a 2 yr. old daughter of King Segis Pontiac, sire of 135 A. R. O. daughters and of several outstanding sons such as K. S. P. Alcarra, Hackney and Pabst bulls. She has 16.68 butter, 356.8 milk at 2 yrs. Her dam is a 24.17 lb. cow with two 30 lb. daughters—calves 8 nearest dams average almost 30 lbs. butter. Beautiful marked and a splendid individual.

No. 4 Born March 14, 1920. Dam another daughter of King Segis Pontiac with 15.44 butter, and 343.40 milk at 2 yrs. This calf traces 6 times to Hengerveld De Kol, 3 times to Pontiac Korndyke and twice to King Segis. His 15 nearest dams average 23.35—a splendid, big boned, light colored calf.

No. 5 Born Mar. 28, 1920. Dam a 2 yr. old daughter of King Segis Pontiac, a 37 lb. son of King Segis. Not tested. Calf nearly all white—a good one.

No. 6 Born Mar. 23, 1920. Dam a 18.50 lb. 3 yr. old sired by a grandson of Pontiac De Nijlander 35.43, seven of this calf's nearest dams average 26 lb. butter in 7 days—Calf more white than black.

No. 7 Born Mar. 27, 1920. Dam a 17.55 lb. three year old and granddam a 29.43 lb. cow with 731.5 milk. Calf is half white and black.

No. 8 Born March 8, 1920. Dam a 13.61 lb. 2 yr. old, daughter of King Segis Pontiac. Her dam a granddaughter of Paul Beets Burke sire of 106 A. R. O. daughters. Calf is a big growthy fellow, more white than black.

Prices, \$100.00, \$150.00 \$200.00 and up. If you can, come and see them—it is worth the trip. Herd under Federal Supervision.

Wah-Be-Me-Me Farms

White Pigeon, Michigan

HOGS

Duroc Jersey boars from 8 mo. to 1 yr. old. Select young sows mated to maintain size and correct type. Prices reasonable, shipped on approval and guaranteed right. **W. E. BARTLEY, Alma, Mich.**

Write Me at once I have just what you want heavy bone registered Duroc Jersey boars ready for service.

W. H. MAYES, L. B. 505, Durand, Mich.

DUROC JERSEYS

Carey U. Edmonds, Hastings, Mich.

DUROC JERSEYS Boars and gilts by Mich. Pather. **E. D. HEYDENBERG, Wayland, Mich.**

Michiganana Durocs. We can fill your wants. Several lines of breeding represented including the Sensations. Satisfaction guaranteed. **O. F. Foster, Pavilion, Mich.**

Down With Prices on last fall and this spring's O. I. C. Boars. **WEBER BROS., Royal Oak, Mich.**

O. I. C.'s choice spring pigs either sex. Booking orders for fall pigs. We register free and ship O. O. D. **A. J. BARKER & SON, Belmont, Mich.**

O. I. C.'s One last fall boar wgt. 425, two last fall gilts, bred lots of spring pigs and this fall pigs either sex. good growthy stock ½ mile west of Depot. **Ott's, Phone 124, Otto B. Schulze, Nashville, Mich.**

O. I. C.'s Fall pigs by C. O. Big Callaway have size and quality and are priced right. **C. J. THOMPSON, Rockford, Mich.**

O. I. C. Bred Gilts for Mar. and Apr farrow also a few choice service boars. **CLOVER LEAF STOCK FARM, Monroe, Mich.**

O. I. C. Gilts bred for April and May farrow. Shipped O. O. D. **H. W. MANN, Dansville, Mich.**

Raise Chester Whites
Like This
the original big producers

I HAVE started thousands of breeders on the road to success. I can help you. I want to place one hog from my great herd in every community where I am not already represented by these fine early developers—ready for market at six months old. Write for my plan—More Money from Hogs.

G. S. BENJAMIN, R. F. D. 10, Portland, Michigan

Central Mich. O. I. C. Swine Breeders Ass'n.

Hogs of all ages of popular blood lines. Every sale guaranteed by association.

DR. H. W. NOBLES,

Sales Mgr. Coral, Mich.

For Sale O. I. C. Swine. Strictly Big Type with good boars and gilts left of same type and blood lines, that won for us at Ohio and Michigan State Fairs. Priced very cheap. Write us before you buy.

NEWMAN'S STOCK FARM, MARLETTE, MICH.

O. I. C.'s Big Type Gilts, bred for Mar. and April farrow. Bears all ages. Write me for prices. **G. E. ANDREWS, Mason, Mich.**

Combination Bred Sow Sale

50 HEAD 50

Big Type Poland Chinas

at the farm of

Geo. McKim, Albion, Mich.

JAN. 28th, 1921

Conveyances from Albion A. M. of sale Sale under cover.

Auctioneers Ed. Bowers Will Inman

Geo. McKim E. W. Landenberger

Albion, Mich. Parma, Mich.

Write for Catalogue

Closing out sale of big type Poland China hogs, which represents the work of 25 years of constructive breeding. Everything goes, including our three great head boars, "Mich. Buster" by "Giant Buster" "A Giant" "Butler's Big Bob." Two of the best yearling prospects in Michigan great length, big bone. Come get your pick. **Jno. C. Butler, Portland, Mich.**

Large type Poland China's spring boars ready to ship. Everything immune from Cholera. **A. A. FELDKAMP, R. No. 2, Manchester, Mich.**

L. S. P. C. a few choice boars at farmers' prices, gilts bred to Black Giant one of the best pigs out of Ill. this fall. Also a grandson of The Glansman and Harrison Big Bob. **H. O. SWARTZ, Schoolcraft, Mich.**

Big Bob Mastodon Spring gilts bred for March and April and some sows bred to Big Bob his sire was champion of the world, his dam's sire was Grand Champion of Iowa State Fair.

C. E. GARNANT, Eaton Rapids, Mich.

L. T. P. C.

70 head of Poland Chinas at private sale. Am offering spring boars from \$40 to \$50 and gilts the same price. Summer and fall pigs \$25 each. The first check will bring you the first choice. **HART, FULCHER & CLINE, Address F. T. Hart, St. Louis, Mich.**

BIG TYPE POLANDS

Bred gilts for sale. Also a few choice fall pigs by The Glansman and his son The Glansboy. They are great. Immune and registered. Come or write.

WESLEY HILL, R. 6, Ionia, Mich.

Big Type P. O. a few first class. 200 lb. boars left also some fall boar pigs good enough to head any herd. Come and see or write.

E. R. LEONARD, R. 3, St. Louis, Mich.

Big Type Poland China boars Long, heavy boned spring boars. Sired by Brewbaker & Son's great heard boar Gertsdale Timm. Stock all double immune. **H. C. OVEN, Ovid, Mich.**

Big Type P. O. some very choice boars double immune. Out 1100 lb. sire and mammoth sows from Iowa's greatest herds. **E. J. Mathewson, Burr Oak, Mich.**

Big Type Poland Chinas bargain \$75 buys a bred gilt and a 250 lb. spring boar also choice gilts bred for \$40. Guarantee Satisfaction.

DORIS HOVER, Akron, Mich.

Poland China Bred sows and gilts at bargain prices, also spring boars and fall pigs, either sex.

CLYDE FISHER, R. 3, St. Louis, Mich.

Big Type Poland Chinas at lowest prices. Both sows and gilts, all ages, and bred.

G. A. BAUMGARDNER, R. 2, Middleville, Mich.

P. O. Bred sows. Fall pigs singly or in pairs. Also S. P. C. Minorca cockerels all big type of the best of breeding. Satisfaction guar. **R. W. Mills, Saline, Mich.**

L. T. P. C. If you are looking for something good, in bred gilts at a right price. Write

W. J. HAGELSHAW, Augusta, Mich.

Hampshires Again

Win Grand Champion Car Load At Chicago

They also outsold and outdressed all other breeds. Can you ask for more proof? Start now with the right kind. Write for free booklet. We give private herd register free to purchasers.

DEWEY HEAD, Box 15, Marion, Ohio.

Registered Hampshire gilts now ready to ship. Spring boars and fall pigs at a bargain.

JOHN W. SNYDER, R. 4, St. Johns, Mich.

YORKSHIRES Boars ready for service. Yorkshires cross makes an excellent market hog. Waterman & Waterman, Packard Rd. Ann Arbor, Mich.

SHEEP.

Wool-Mutton Shropshire Rams. Good strong in-bred, priced right. **A. H. FOSTER, Allegan, Mich.**

Shropshires Choice ewes, all ages, bred to imported ram. Also a few rams. **W. B. McQUILLAN, R. 7, Howell, Mich.**

Brook Side Farm Offers Shropshire Registered Ewes Bred to an imported Min-ton Ram. **Dan Booher, Prop., R. 4, Ewart, Mich.**

Registered Shropshire Ewes and rams. **Jno. Grieve, R. 3, Fowlerville, Mich.**

Want a Sheep? Let American Hampshire Sheep Association send a dandy booklet with list of breeders. Write **COMFORT A. TYLER, 22 Woodland Ave., Detroit, Mich.**

HORSES

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

LATEST MARKET REPORTS

GRAIN QUOTATIONS

January 18, 1921.

Wheat.

Detroit.—Cash No. 2 red \$1.97; May \$1.90; No. 2 white and No. 2 mixed \$1.95.

Chicago.—No. 1 hard \$1.86; No. 2 hard \$1.82½@1.85; March \$1.74½.

Corn.

Detroit.—Cash No. 3 yellow, new 74c; No. 4 yellow, new 71c.

Chicago.—No. 2 mixed \$67; No. 2 yellow 67½@68c.

Oats.

Detroit.—Cash No. 2 white 49c; No. 3 white 47½c; No. 4 white 44½c.

Chicago.—No. 2 white 44@44½c; No. 3 white 42½@43½c.

Beans.

Detroit.—Immediate and prompt are steady at \$4 per cwt.

Chicago.—White beans steady. Hand-picked beans choice to fancy \$4.25@4.50; red kidney beans \$8.75@9 per cwt.

New York.—Market is dull. Choice pea, new \$4.85@5; do medium \$5.25@5.75; red kidney \$9.25@9.50.

Rye.

Detroit.—Cash No. 2 rye \$1.70.

Seeds.

Detroit.—Prime red clover cash and March \$13; alsike \$16; timothy \$3.45. Toledo.—Prime red clover, cash and January \$12.75; alsike \$15.60; timothy \$3.20.

Hay.

No. 1 timothy \$24@25; standard and light mixed \$23@24; No. 2 timothy \$22@23; No. 1 clover mixed and No. 1 clover \$20@21; rye straw \$15@15.50; wheat and oat straw \$14@14.50 per ton in carlots at Detroit.

WHEAT

A sharp upturn occurred in the wheat market during the past week, prices reaching the highest point since early in November. Export buying continued fairly brisk during the early days of the advance, even the British government taking around two million bushels, although its purchases are usually limited to periods when the market is weak. On the closing session of the week prices broke sharply and large additional sales for export were consummated. The continuation of export buying during January is considered especially significant as the movement from Australia has started and Argentine crop is ready for shipment. Damaging rains have continued in Australia. India continues to clear a little wheat on previous sales, although famine is reported in the Bombay section and the drouth remains unbroken. Mill demand has been larger since the first of the year. It is reported that 2,500,000 bushels of wheat have been sold for export from the Pacific Coast during the first ten days of January.

CORN

Receipts of corn at primary markets during the first half of January were the largest for the season in the last five years. The strength in the wheat market has supported the price of corn and leading elevator interests are buying this grain as the cash price is practically on a carrying charge basis below the May delivery. Industries are operating at about fifty per cent capacity and making moderate purchases. Export sales have been surprisingly large. Iowa, Nebraska, Illinois and the southwest have been selling most freely.

OATS

Oats sold at a new low price on the crop with very small fluctuations from day to day. Demand is limited; the supply at terminals is large, and the crop is above the five-year average, consumption including liberal exports, whereas this year exports are a negligible quantity. The Argentine crop is estimated at 60,000,000 bushels, or 10,000,000 bushels more than last year. Much higher prices are unlikely to arrive until along in the spring. The barley market shows a little more strength, due to light receipts and a better demand.

RYE

Rye is a scarce article and exporters are paying practically the same price for rye, pound for pound, as they are

for wheat. This market is likely to follow closely any changes in the price level for wheat.

SEEDS

Seed markets generally show a strong undertone. The trade expects an unusually big demand because of the low price, but tight money may nullify any effect of this kind. Importations from France are likely to be rather liberal. Growers should find a better market later on while consumers may find a low spot or two before spring upon which to buy.

FEEDS

Stocks of most feedstuffs are liberal and production of wheat and corn by-products is on the increase. Prices for these have been on the easy side during the past week, and linseed oil meal also is a shade lower. The strength in cotton markets is reflected in the market for cottonseed meal which advanced slightly. It is probable that this feed is close to the bottom, although no pronounced upward trend is in prospect. Lower freight rates from the northwest has caused heavy shipments of alfalfa meal and a fresh decline in that feed.

HAY

Hay markets would respond better if the weather were less mild. Demand from eastern and southern consuming sections is limited. There is nothing to encourage belief in a sharp advance later on.

BUTTER

The unsettled state of the butter market continued during most of the past week. The market turned for the better briefly on the mid-session but later on weakness developed. The eastern markets received New Zealand butter from the Pacific Coast and were also disposed to await the arrival of the cargo of Danish on the Frederick VIII, due January 22 at New York. Condensary offerings at Chicago were also noticeable. The decrease in storage stocks during December speaks well for the rate of consumption, former Danish shipments are well cleaned up, storage butter withdrawals last week were almost double those of the preceding week, and it is still two

months before any conspicuous increase in production can be expected in this country. Prices are down on a materially lower basis than a short time ago, so that retail trade is being stimulated. However, as long as foreign offerings continue sharp advances are unlikely to hold for any length of time. The proportion of fancy butter in the receipts was much smaller than during the preceding week. Prices for 92 score fresh butter, as quoted by the Bureau of Markets on January 15 were as follows: Chicago 48½c; New York 52c; Boston 52c; Philadelphia 52c.

EGGS AND POULTRY

Higher prices for eggs resulted from scarcity of supplies and cooler weather, large advance sales for delivery. Poultry prices are lower under heavier receipts and the fact that prices are out of line with other meats. Latest quotations as follows: Chicago.—Eggs, fresh firsts 71c; ordinary firsts 64@69c. Poultry, spring chickens 25c; hens 28c; roosters 20c; ducks 26@31c; geese 23@26c; turkeys 43c.

Detroit.—Eggs, fresh candled 66@68c. Live poultry, spring chickens 26@27c; leghorns 20@22c; heavy hens 26@28c; light hens 20c; roosters 18c; geese 27@28c; ducks 33@34c; turkeys 38@40c.

CHEESE

Distributing markets for cheese were quiet during the early days of the past week following a sharp advance in the country market. During the later days of the week the market was firm with the advance fully held. Eastern buyers were active in the Wisconsin markets, also Chicago, and were responsible for a part of the firmness. The smaller styles, Longhorns, Young Americas and Squares, are comparatively scarce and sell readily. Undergrades have moved sluggishly, buyers being in a position to dictate prices. Some export sales to England were put through, particularly in skim cheese, and also some full cream cheese. Receipts declined slightly. The outlook is for higher prices during the coming weeks.

WOOL

Although the amount of wool that is being sold remains small the tone of

the market continues firm. Increased orders are being given for woolen goods which leads to the belief that gradual improvement may be expected. Sales in New Zealand show no particular change from the last auctions. South American prices are higher on the low cross-bred wools. The last auctions of the British government resulted in withdrawals of about eighty per cent, the price limits being about fifteen per cent above the prices bid. The tariff prospect is less hopeful than a week ago. Boston quotes prices as follows: Ohio and Pennsylvania fleeces, delaine unwashed 44@48c; fine unwashed 30@31c; half-blood combing 33@35c; three-eighths blood combing 28@30c. Michigan and New York fleeces, delaine unwashed 45@38c; fine unwashed 29@30c; half-blood unwashed 32@34c; three-eighths blood unwashed 27@29c.

POTATOES

The potato market shows but little change during the past week. The middle of the week Northern round white stock at shipping points reached a new low level of \$1@1.15 per 100 lbs. Trading at these points is mostly dull and slow. Chicago carlots are quoted at \$1.25@1.40 on sacked stock with bulk potatoes bringing a slight premium. The jobbing range in other leading markets is from \$1.40@2, the latter price prevailing in New York City. Chicago.—Northern whites at \$1.20@1.35. Detroit.—Michigan round whites \$2@2.25 per 150-lb. sack. New York.—Long Islands \$4.25 per 180 lbs; New York round whites \$3.25@3.50 per 180 lbs.

ONIONS

The onion trade is practically at a standstill. Cold storage holdings are heavy and daily receipts are liberal. The market has slipped below former low levels and at present \$1.15 seems to be the top on best middle western yellow stock, with other markets but little higher.

APPLES

Apples are moving more readily, particularly the better grades, but prices show no material change during the past week. Shipping points weakened particularly on common storage stock, which is quoted at about \$3.65@3.75 per barrel f. o. b. western New York points, while cold storage stocks are quoted at \$4@4.25 on Baldwins. Jobbing prices in consuming markets range for Baldwins \$4@5; York Imperials \$4.50@5; Kings \$5@5.50; Jonathans \$6@7.

DETROIT CITY MARKET

Offerings of produce are light and trading dull. Quotations are not considered established. Detroit track sales to jobbers reported by the local U. S. Bureau of Markets: Potatoes, Michigan 150-lb sack round white \$2@2.25; apples, barrels, Michigan and New York Greenings, Baldwins, Spies "A" grade \$4.50@5.25; cabbage \$22@25 per ton; onions, yellow varieties 65c@\$1 per 100-lb sack; carrots 75@90c per bushel; horseradish \$5@6 per bushel; parsnips 75c@\$1 per bushel; squash \$1@1.25 per bushel.

NEW ACCOUNT BOOK READY FOR DISTRIBUTION.

The 1921 farm account book prepared by the Michigan Agricultural College is ready for distribution. The book is based upon the last year's edition, being a revision and expansion of what has been known as Farm Account Book No. 1, previously sent out by the college. About three thousand account books were distributed in the state last year and the college has already received a large number of advance orders for this year's book. The book is being sold to farmers at the cost of printing, which is forty-five cents. Send your order to H. M. Elliot, Farm Management Demonstrator, East Lansing, Michigan.

COMING LIVE STOCK SALES.

Poland-China.—January 28, George McKim, Albion, Michigan.
Holsteins.—February 3, John H. Johnson, Farmington, Michigan.
Duroc Jersey.—February 4, Michigan Duroc Breeders' Association, East Lansing, Michigan.

Live Stock Market Service

Markets for January 19.

DETROIT

Cattle.

Market is very dull.

Best heavy steers	9.00@9.25
Mixed steers and heifers	8.00@8.50
Best cows	6.50@7.00
Handy light butchers	5.75@6.25
Light butchers	5.00@5.50
Best cows	6.50@7.50
Butcher cows	5.00@6.00
Common cows	3.75@4.00
Canners	2.50@3.50
Choice bulls	6.50@7.00
Bologna bulls	5.25@6.00
Stock bulls	4.00@5.00
Feeders	7.00@8.00
Stockers	5.00@6.50
Milkers and springers	55@90
Veal Calves.	
Market is steady.	
Best	14.00@15.00
Others	4.00@11.00

Hogs.

Market strong.

Mixed hogs	10.00
Pigs	10.25
Roughs	8.25
Stags	7.00

Sheep and Lambs.

Market is steady.

Best lambs	10.00@10.50
Fair lambs	8.00@9.00
Light to common	5.00@7.00
Fair to good sheep	4.00@4.75
Culls and common	1.50@3.00

CHICAGO

Hogs.

Estimated receipts today are 25,000; holdover 12,991. Market slow and 10c higher. Bulk of sales \$9.70@10.10; tops 10.25; heavy 250 lbs up medium, good and choice \$9.65@9.90; medium 200 to 250 lbs medium, good and choice \$9.80@10.10; light 150 to 200 lbs common, medium, good and choice \$9.95@10.25; light lights 130 to 150 lbs common, medium, good and choice at \$10@

10.25; heavy packing sows 250 lbs up smooth \$9@9.50; packing sows 200 lbs up rough \$8.75@9; pigs 130 lbs down medium, good and choice \$9.75@10.30.

Cattle.

Estimated receipts today are 12,000. Market is slow, steady to 25c lower; calves strong. Beef steers, medium and heavyweight 1100 lbs up choice and prime \$10.50@11.50; do medium and good \$8.50@10.50; do common at \$7.50@8.50; light weight 1100 lbs down good and choice \$9.50@11; do common and medium \$7.25@9.50; butcher cattle heifers, common, medium, good and choice \$5.25@9.75; cows, common, medium, good and choice \$4.60@8; bulls, bologna and beef at \$5@7.60; canners and cutters cows and heifers \$3.25@4.60; do canner steers \$4@5.50; veal calves, light and handyweight, medium, good and choice \$10@12; feeder steers, common, medium, good and choice \$7@9.25; stocker steers common, medium, good and choice \$5.25@8.50; stocker cows and heifers, common, medium, good and choice at \$4.25@6.

Sheep and lambs.

Estimated receipts today are 18,000. Market slow to 25c lower. Lambs 84 lbs down, medium, good, choice and prime \$9.25@10.75; do 85 lbs up medium, good, choice and prime \$8.50@10.50; do culls and common at \$7.50@8.75; spring lambs medium, good, choice and prime \$7.75@9; ewes, medium, good and choice \$4@5.75; ewes, cull and common \$2@3.50; yearling wethers medium, good and choice at \$8.25@10.25.

BUFFALO

Hog prices are generally higher, heavy hogs selling for \$10.75, mixed hogs \$10.75@11, yorkers and pigs at \$11@11.25. Lambs are steady at \$11; best calves \$17.

WILL INVESTIGATE MICHIGAN DAIRY SITUATION.

ACTION of extraordinary moment affecting the dairy interests of Michigan was taken at a meeting of accredited County Farm Bureau delegates from thirty-two counties in the state, including Menominee county in the upper peninsula, held in Lansing on January 10, at which meeting it was unanimously voted that a dairy department of the State Farm Bureau be organized forthwith and an advisory committee consisting of the following persons was named:

John C. Near, Flat Rock, Wayne county; Ray Potts, Washington, Mich.; Macomb county; Robert Monteith, Monteith, Allegan county; Geo. Kerns, Owosso, Shiawassee county; Alfred Hendrickson, Shelby, Oceana county.

A resolution was also adopted providing for a committee of five representing the Michigan Milk Producers' Association and a like committee representing the cooperative creameries, milk distributing plants and other cooperative associations dealing in dairy products and together with the advisory committee to the dairy department of the bureau constituting a committee of fifteen charged with making a full and complete investigation of the entire field of dairy production and marketing in Michigan. It was also provided that this committee attend a meeting which is shortly to be held under the auspices of the American Farm Bureau Federation for the purpose of studying the dairy problem from a national standpoint, and which meeting will probably select a committee similar to the grain marketing committee of seventeen appointed by the American Farm Bureau Federation several months ago for the purpose of studying plans for the solution of dairy production and marketing problems in a national way, in order that a spirit of complete cooperation may be developed and a thorough understanding had with reference to the true functions of all who are engaged in the production and marketing of milk and milk products.

H. D. Wendt, of the Dairy Division of the State Food and Drug Department, addressed the delegates on the problem of cream marketing for butter making purposes, developing the point that the industry, or more particularly the producer, was losing in the neighborhood of three million dollars a year based on present conditions of handling or buying costs and on account of the lack of quality in the major portion of the creamery butter manufactured in Michigan, and argued as a remedy the pooling of cream by the producer for the purpose of collective marketing on a quality basis, pointing out that by this method unnecessary duplication of buying agencies might be eliminated and the handling of this product on a quality basis made possible.

Mr. Wendt further emphasized the importance of improving the quality of creamery butter, the lack of which he asserted was the prime factor in the constantly mounting consumption of oleomargarine, thereby curtailing the consumption of butter and slackening the demand for the genuine article.

Milo D. Campbell, of Coldwater, president of the American Milk Producers' Federation, discussed the market or fluid milk situation and emphasized the importance of organization of producers for marketing purposes.

R. C. Potts, of the Bureau of Markets of the United States Department of Agriculture, in addressing the delegates, discussed fundamentals for the solution of dairy marketing problems, emphasizing the first essential was:

1. That there be an earnest desire on the part of the producers themselves.

2. The employment of competent managers by producers' organizations.

3. The availability and employment of capital necessary to adequately finance such plans as may be agreed upon.

4. The devising and putting into operation of a practical plan of organization which must meet all economic conditions.

ANNUAL CROP SUMMARY 1920.

MICHIGAN again takes its usual creditable position as a crop producing state. The revision of the 1920 estimates has been completed by the joint state and federal crop reporting service under the supervision of Chas. J. DeLand, secretary of state, and Verne H. Church, agricultural statistician of the United States Bureau of Crop Estimates. A complete summary giving details by counties and the record for each leading crop for past years has been compiled and is now in the hands of the printer. The striking features of the report are that all but five crops are above the average production, and that the value of the state's crops on December 1 was one-third less than indicated on August 1.

The crops grown in Michigan during 1920 had a total value on December 1 of approximately twenty-five per cent less than those of the previous year, the estimates being \$303,410,000 for 1920, and \$406,107,000 for 1919. A tentative estimate, based upon the crop prospects and prevailing prices on August 1, 1920, indicated a production value of approximately \$433,000,000, or a considerable increase over the previous year. Since that time there has been a marked decline in the price of practically every farm product resulting in a reduction of net value amounting to \$150,000,000. The price of every crop included in the quantitative estimates is lower than one year ago, except rye which is two cents per bushel higher. With the exception of oats, peaches and pears the total value of each crop is less than in 1919, and the returns per acre are less for all crops except oats and barley which showed a slightly greater return for the year just closed.

On the other hand, the cost of farm labor was the highest on record. Men for employment by the month or year were scarce, and day labor was unobtainable in some sections. This condition, combined with a pronounced movement of men from the farms to the city, resulted in a less acreage of crops being grown and probably a greater waste than during the previous year. The acreage of principal crops in 1919 was 8,765,000; in 1920, the acreage of the same crops aggregated 8,378,000. Potatoes, sugar beets and clover seed had an increased acreage, corn and oats the same acreage, and all others a less acreage than in 1919. The yields of corn and hay were the same as in 1919, while oats, barley, buckwheat, potatoes and clover seed showed increased yields per acre. Wheat, beans, rye and sugar beets had smaller yields than in the previous year. The crops showing a greater total production were oats, barley, potatoes, clover seed, apples, peaches and pears.

Compared with the average of the last sixteen years, wheat, buckwheat, hay and clover seed show a less total production. All other crops were above the average. In view of the extraordinary conditions under which farmers have labored, this is a very creditable showing and demonstrates the advantage of diverse farming as generally practiced in Michigan. The state ranks twenty-first in land area and also in amount of land in farms, yet for the year just ended it ranks fourteenth in the value of its crops.

NEWS OF THE WEEK.

(Continued from page 88).
Sunday, January 16.

AN agreement is reached between Poland and Russia providing for the exchange of prisoners of war. Greek troops are yielding territory along the entire front in Asia Minor following attacks by the Turks. Rumors are that a serious split in the ranks of the Soviet government of Russia has occurred. Representatives of the one hundred and nine unions affiliated with the American Federation of Labor are called to Washington to consider attacks now being made upon the trade union movement.

Monday, January 17.

A CONVENTION creating a federation of central American republics has been agreed upon at San Jose, Costa Rica. The Italian blockade of Fiume has been lifted.

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FOR SALE 12-24 Waterloo Boy Tractor and three bottom plow. O. W. BROWN, Pinckney, Mich.

Farms and Farm Lands For Sale

120-Acre Farm With 10 Cattle, Pair Horses and

Hogs, flock poultry, dairy equipment, wagons, sleighs, complete machinery, valuable pine timber, 15 bu. potatoes, 10 bu. oats, 10 bu. corn, large quantity hay, etc.; on main road, near thriving Michigan R. R. town; 80 acres tillage, balance wire-fenced pasture, woodlot, variety fruit, sugar grove, good 10-room house, ample barn, hen houses, etc.; to settle quickly \$5,000 takes all easy terms. Details page 71 Strout's Illustrated Catalog 1200 bargains. FREE. STROUT FARM AGENCY 814 BC Ford Bldg., Detroit.

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For Sale Two very desirable quarter-sections of land, in Jefferson County, Idaho, on the railroad, one mile from the station of Roberts, with 400 inches of water in the Butte and Market Lake Canal. For particulars, address: F. C. SCHRADER, Denver, Colorado

FOR Sale 122 acres best of improved land, good building fine location 3 miles from Lansing, \$152. With 14 A. wheat. S. W. HEMPEY, R. 7, Lansing, Mich.

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WANTED—To hear from owner of land for sale. O. K. HAWLEY, Baldwin, Wisconsin.

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To start work immediately on modern farm near Belleville, Mich. Good house, garden, fuel, potatoes and milk furnished in addition to cash monthly salary. Milking done by machine, when writing state experience, age, size of family and salary expected.

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Airedale Pups. Two months old from registered stock. Pedigrees furnished. Make fine watch dogs for homes and poultry. Males \$15. Females \$10. R. G. Kirby, R. 1, East Lansing, Mich.

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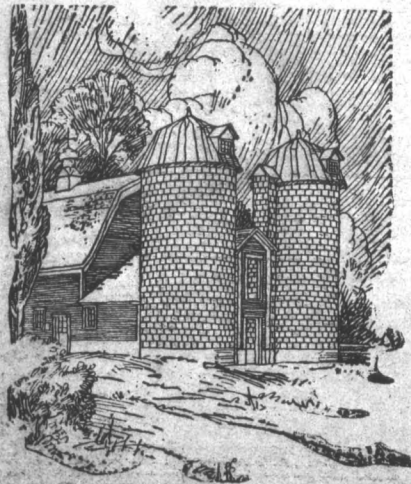
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